



LIST OF ITU-T RECOMMENDATIONS

Edition 2004-1

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NOTE

For the latest, most up-to-date information, please consult the ITU-T website at the following address: **www.itu.int/ITU-T/publications**

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International Telecommunication Union

Place des Nations CH-1211 Geneva 20

Switzerland

Telephone: + 41 22 730 51 11
Telefax: + 41 22 733 72 56
Telex: 421000 uit ch
Telegram: ITU GENEVE
E-mail: itumail@itu.int

Web: www.itu.int/

ITU-T Telecommunication Standardization Bureau

Place des Nations CH-1211 Geneva 20

Switzerland

Telephone: + 41 22 730 58 52 Telefax: + 41 22 730 58 53 E-mail: tsbmail@itu.int

Electronic document handling: tsbedh@itu.int

Web: www.itu.int/itu-t

International Telecommunication Union

Sales and Marketing Division

Place des Nations CH-1211 Geneva 20

Switzerland

Telephone: + 41 22 730 61 41 (English) + 41 22 730 61 42 (Français) + 41 22 730 61 43 (Español)

Telefax: + 41 22 730 51 94
Telex: 421000 uit ch
E-mail: sales@itu.int

Web: www.itu.int/publications

The bookshop is open at the ITU Headquarters (Tower Building) in Geneva from 8h30 to 12h00 and from 13h30 to 17h00, Monday to Friday.

INTRODUCTION

The main purpose of this List is to indicate all the ITU-T (formerly CCITT) Recommendations currently in effect at the date of its publication. In addition, the ITU-T Supplements which contain operational or other practical/implementation type of information related to a particular Series of Recommendations are listed at the end of that Series in the List.

Until 1990, (former) CCITT Recommendations were grouped for publication in fascicles of the CCITT Books. Since 1990, CCITT/ITU-T Recommendations have been published as individual booklets.

It should be noted that there is provision, within established ITU budgets, for translation of a number of ITU-T Recommendations into Arabic, Chinese and Russian. The choice of which Recommendations are translated is established in collaboration with the principal ITU Member Countries involved. Readers interested in such language versions should get in touch with ITU Sales and Marketing Division at the address provided in this List.

New Recommendations which are currently in the process of publication are noted as "To be published". At the date when a Recommendation is approved, there remain several steps in preparing and printing the texts so the actual publication date for these Recommendations is necessarily different from the approval date. When an electronic version of a recently-approved Recommendation becomes available the text is pre-published and can be downloaded (see the ITU Electronic Bookshop, page 215). Pre-published and superseded ITU-T Recommendations are now also available via the yearly online subscription service and the Electronic Bookshop.

When an ITU-T Recommendation is accompanied by addenda (Add.), amendments (Amd.) and/or corrigenda (Cor.), all documents should be purchased in order to have the complete information. All Series A Recommendations and the corrigenda may be downloaded for free from the ITU Website.

A few Recommendations include software written specifically to help customers, telecommunications service operators or manufacturers to test equipment, systems or networks. There is a list of available software on page 203.

Other Recommendations describe test charts intended to test graphic communication systems. Test charts of special quality with different resolutions may be ordered separately from the ITU Sales Service, since the specimens reproduced in those Recommendations are generally not suited for measurements. The available test charts are listed on page 209.

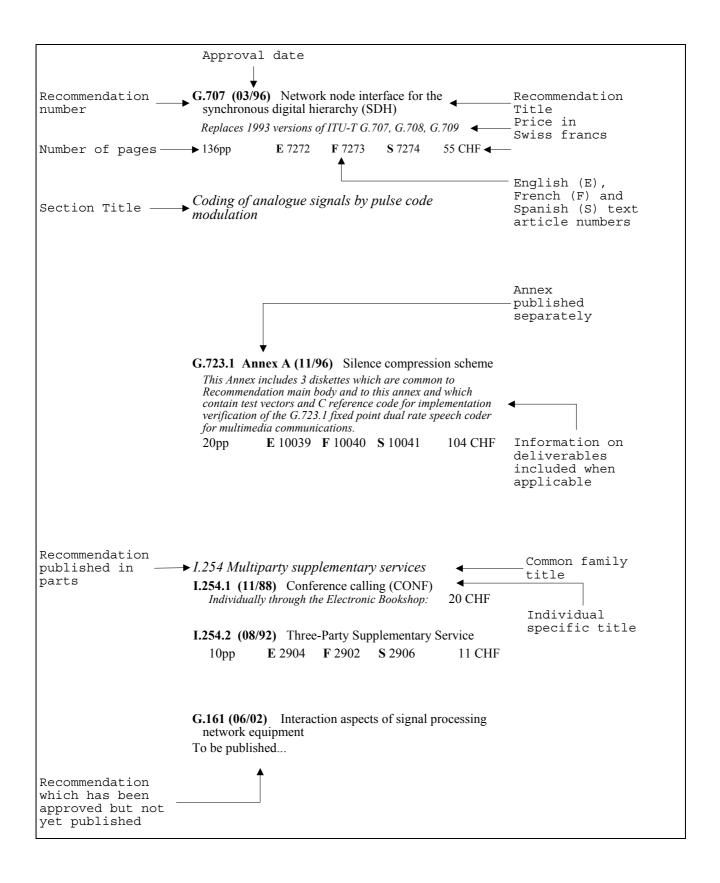
While most of the foregoing applies to printed paper copies of ITU-T Recommendations, the same Recommendations are available electronically through the ITU Electronic Bookshop, the ITU-T Recommendations Online and ITU-T Recommendations on DVD-ROM*. More detailed information about these products and how to order them is provided at the end of this List. For forthcoming publications, please refer regularly to the Web: **www.itu.int/publications**.

Finally, if you require further information about the operations of the ITU Standardization Sector or the contents of ITU-T Recommendations, please use the address and numbers on page 2.

Telecommunication Standardization Bureau

^{*} From June 2004.

LEGEND



List of ITU-T Recommendations in force

SERIES A

Organization of the work of ITU-T

A.1 (10/00) Work Methods for Study Groups of the ITU Telecommunication Standardization Sector (ITU-T)

Free of charge from the Electronic Bookshop

17pp E 20202 F 20203 S 20204 12 CHF

A.2 (10/00) Presentation of contributions relative to the study of Questions assigned to the ITU-T

Free of charge from the Electronic Bookshop

12pp E 20205 F 20206 S 20207 9 CHF

A.3 (10/96) Withdrawn (10/00)

Elaboration and presentation of texts and development of terminology and other means of expression for Recommendations of the ITU Telecommunication Standardization Sector

Deleted; an "ITU-T Recommendation author's guide" is available on ITU-T website

Free of charge from the Electronic Bookshop

E 14771 F 14771 S 14771 12 CHF

A.4 (06/02) Communication process between ITU-T and Forums and Consortia

Free of charge from the Electronic Bookshop

14pp E 22840 F 22841 S 22842 9 CHF

A.5 (11/01) Generic procedures for including references to documents of other organizations in ITU-T Recommendations

Free of charge from the Electronic Bookshop

8pp E 21663 F 21664 S 21665 9 CHF

A.6 (06/02) Cooperation and exchange of information between ITU-T and national and regional standards development organizations

Free of charge from the Electronic Bookshop

14pp E 22843 F 22844 S 22845 9 CHF

A.7 (06/02) Focus groups: Working methods and procedures

Free of charge from the Electronic Bookshop

12pp E 22846 F 22847 S 22848 9 CHF

A.8 (10/00) Alternative approval process for new and revised Recommendations

Free of charge from the Electronic Bookshop

17pp E 20214 F 20215 S 20216 12 CHF

A.9 (11/03) Working procedures for the Special Study Group on IMT-2000 and Beyond

Free of charge from the Electronic Bookshop

13pp E 24779 F 24780 S 24781 12 CHF

A.11 (10/00) Publication of ITU-T Recommendations and WTSA proceedings

Free of charge from the Electronic Bookshop

12pp E 20220 F 20221 S 20222 9 CHF

A.12 (10/00) Identification and layout of ITU-T Recommendations

Free of charge from the Electronic Bookshop

10pp E 20223 F 20224 S 20225 9 CHF

A.13 (10/00) Supplements to ITU-T Recommendations

Free of charge from the Electronic Bookshop

10pp E 20226 F 20227 S 20228 9 CHF

A.23 Annex A (11/01) Guide to ITU-T and ISO/IEC JTC1 cooperation

Free of charge from the Electronic Bookshop

A.30 (03/93) Withdrawn (10/00)

Major degradation or disruption of service

This Recommendation is also included but not published in F series under alias number F.12

This Recommendation, which was also included but not published in F series under alias number F.12, was deleted and its content transfered to ITU-T C.2

Free of charge from the Electronic Bookshop

E 14775 F 14775 S 14775 9 CHF

Supplements to the Series A Recommendations

Suppl. 3 (01/04) IETF and ITU-T collaboration guidelines

Free of charge from the Electronic Bookshop

14pp E 23317 F 23318 S 23319 12 CHF

SERIES B

Means of expression: definitions, symbols, classification

B.1 (11/88) Withdrawn (10/00)

Letter symbols for telecommunications

Deleted after its content became technically out of date

Individually through the Electronic Bookshop: 20 CHF

B.3 (11/88) Withdrawn (10/00)

Use of the international system of units (SI)

Deleted after its content became technically out of date

Individually through the Electronic Bookshop: 20 CHF

B.10 (11/88) Withdrawn (10/00)

Graphical symbols and rules for the preparation of documentation in telecommunications

Deleted after its content became technically out of date

Individually through the Electronic Bookshop: 20 CHF

B.11 (11/88) Legal time – use of the term UTC

Individually through the Electronic Bookshop: 20 CHF

B.12 (11/88) Withdrawn (03/02)

Use of the decibel and the neper in telecommunications

Deleted since its content is covered by ITU-T Rec. G.100.1

Individually through the Electronic Bookshop: 20 CHF

B.13 (11/88) Withdrawn (10/00)

Terms and definitions

Deleted after its content became technically out of date

Individually through the Electronic Bookshop: 20 CHF

B.14 (11/88) Withdrawn (10/00)

Terms and symbols for information quantities in telecommunications

Deleted after its content became technically out of date

Individually through the Electronic Bookshop: 20 CHF

B.15 (10/96) Withdrawn (10/00)

Nomenclature of the frequency and wavelength bands used in telecommunications

Deleted; refer to ITU-R definitions

8pp E 11647 F 11648 S 11649 9 CHF

B.16 (11/88) Withdrawn (10/00)

Use of certain terms linked with physical quantities

Deleted; refer to ITU-R definitions

Individually through the Electronic Bookshop: 20 CHF

B.17 (11/88) Adoption of the CCITT Specification and description Language (SDL)

Individually through the Electronic Bookshop: 20 CHF

B.19 (10/96) Withdrawn (10/00)

Abbreviations and initials used in telecommunications

Deleted after its content became technically out of date

8pp E 11176 F 11177 S 11178 9 CHF

SERIES C

General telecommunication statistics

C.1 (03/93) Withdrawn (10/00)

ITU statistical yearbook

Deleted after the transfer of telecommunication statistics activity to ITU-D

10pp E 5555 F 5554 S 5556 11 CHF

C.3 (03/93) Withdrawn (09/02)

Instructions for international telecommunication services

Given that the text of Rec. C.3 consists of an index to a number of Recommendations which are now of little or no practical use, it was decided to delete it. Electronic access to ITU-T Recommendations would appear to provide a better index and reference mechanisms

1pp E 3702 F 3701 S 3703 8 CHF

SERIES D

General tariff principles

Terms and definitions

D.000 (06/02) Terms and definitions for the D-series Recommendations

14pp E 22534 F 22535 S 22536 12 CHF

General tariff principles

Private leased telecommunication facilities

D.1 (07/91) General principles for the lease of international (continental and intercontinental) private telecommunication circuits and networks

8pp E 2164 F 2163 S 2165 10 CHF

D.3 (06/92) Principles for the lease of analogue international circuits for private service

2pp E 2622 F 2653 S 2684 8 CHF

D.4 (12/98) Special conditions for the lease of international (continental and intercontinental) sound- and television-programme circuits for private service

12pp E 16030 F 16031 S 16032 12 CHF

D.5 (11/88) Costs and value of services rendered as factors in the fixing of rates

Individually through the Electronic Bookshop: 20 CHF

D.7 (01/92) Concept and implementation of "onestop shopping" for international private leased telecommunication circuits

3pp E 2602 F 2631 S 2662 8 CHF

D.8 (11/88) Special conditions for the lease of international end-to-end digital circuits for private service

Individually through the Electronic Bookshop: 20 CHF

D.9 (11/88) Private leasing of transmitters or receivers

Individually through the Electronic Bookshop: 20 CHF

Tariff principles applying to data communication services over dedicated public data networks

D.10 (07/91) General tariff principles for international public data communication services

3pp E 2137 F 2136 S 2138 7 CHF

D.11 (03/91) Special tariff principles for international packet-switched public data communication services by means of the virtual call facility

3pp E 1978 F 1977 S 1979 7 CHF

D.12 (11/88) Measurement unit for charging by volume in the international packet-switched data communication service

Individually through the Electronic Bookshop: 20 CHF

D.13 (11/88) Guiding principles to govern the apportionment of accounting rates in international packet-switched public data communication relations

Individually through the Electronic Bookshop: 20 CHF

D.15 (11/88) General charging and accounting principles for non-voice services provided by interworking between public data networks

Individually through the Electronic Bookshop: 20 CHF

D.20 (11/88) Special tariff principles for the international circuit-switched public data communication services

Individually through the Electronic Bookshop: 20 CHF

D.21 (11/88) Special tariff principles for short transaction transmissions on the international packet-switched public data networks using the fast select facility with restriction

Individually through the Electronic Bookshop: 20 CHF

D.23 (11/03) Charging and accounting in the international land mobile telephone service (provided via cellular radio systems)

To be published...

D.30 (11/88) Implementation of reverse charging on international public data communication services

Individually through the Electronic Bookshop: 20 CHF

D.35 (01/92) General charging principles in the international public message handling services and associated applications

2pp E 2600 F 2629 S 2660 8 CHF

D.36 (03/95) General accounting principles applicable to message handling services and associated applications

12pp E 6090 F 6089 S 6091 11 CHF

D.37 (07/96) Accounting and settlement principles applicable to the provision of public directory services between interconnected Directory Management Domains

12pp E 7475 F 7476 S 7477 12 CHF

Charging and accounting in the international public telegram service

D.40 (06/92) General tariff principles applicable to telegrams exchanged in the international public telegram service

4pp E 2694 F 2693 S 2695 8 CHF

D.41 (11/88) Introduction of accounting rates by zones in the international public telegram service

Individually through the Electronic Bookshop: 20 CHF

D.42 (11/88) Accounting in the international public telegram service

Individually through the Electronic Bookshop: 20 CHF

D.43 (11/88) Partial and total refund of charges in the international public telegram service

A Corrigendum was indicated in 02/1990 for the English version.

Individually through the Electronic Bookshop: 20 CHF

Charging and accounting in the international telemessage service

D.45 (06/92) Charging and accounting principles for the international telemessage service

2pp E 2627 F 2658 S 2689 8 CHF

Principles applicable to GII-Internet

D.50 (11/88) Withdrawn (10/96)

Tariff and international accounting principles for the international teletex service

Deleted as a consequence of the suppression of Teletex service

Individually through the Electronic Bookshop: 20 CHF

D.50 (10/00) International Internet Connection

4pp E 19683 F 19684 S 19685 9 CHF

Charging and accounting in the international telex service

D.60 (07/91) Guiding principles to govern the apportionment of accounting rates in intercontinental telex relations

2pp E 2140 F 2139 S 2141 7 CHF

D.61 (11/88) Charging and accounting provisions relating to the measurement of the chargeable duration of a telex call

Individually through the Electronic Bookshop: 20 CHF

D.65 (11/88) General charging and accounting principles in the international telex service for multiaddress messages via store-and-forward units

Individually through the Electronic Bookshop: 20 CHF

D.67 (03/95) Charging and accounting in the international telex service

4pp E 5852 F 5851 S 5853 8 CHF

Charging and accounting in the international facsimile service

D.70 (06/92) General tariff principles for the international public facsimile service between public bureaux (bureaufax service)

3pp E 2691 F 2690 S 2692 8 CHF

D.71 (06/92) General tariff principles for the public facsimile service between subscriber stations (telefax service)

2pp E 2626 F 2657 S 2688 8 CHF

D.73 (06/92) General tariff and international accounting principles for interworking between the international bureaufax and telefax services

2pp E 2623 F 2654 S 2685 8 CHF

Charging and accounting in the international videotex service

D.79 (07/91) Charging and accounting principles for the international videotex service

5pp E 2146 F 2145 S 2147 7 CHF

Charging and accounting in the international phototelegraph service

D.80 (11/88) Accounting and refunds for phototelegrams

Individually through the Electronic Bookshop: 20 CHF

D.81 (11/88) Accounting and refunds for private phototelegraph calls

Individually through the Electronic Bookshop: 20 CHF

D.83 (11/88) Rates for phototelegrams and private phototelegraph calls

D.85 (11/88) Charging for international phototelegraph calls to multiple destinations

Individually through the Electronic Bookshop: 20 CHF

Charging and accounting in the mobile services

D.90 (03/95) 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

24pp E 6126 F 6125 S 6127 15 CHF

D.91 (07/96) 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.

28pp E 7478 F 7479 S 7480 17 CHF

D.91 (1996) Amendment 1 (06/98) Year 2000 issue and its impact on ITU-T D.91 application

Published as a covering note

1pp E 7478 F 7479 S 7480 9 CHF

Charging and accounting in the international phototelegraph service

D.93 (11/03) Charging and accounting in the international land mobile telephone service (provided via cellular radio systems)

20pp E 24767 F 24768 S 24769 12 CHF

Charging and accounting in the mobile services

D.94 (01/92) Charging, billing and accounting principles for international aeronautical mobile service, and international aeronautical mobile-satellite service

4pp E 2601 F 2630 S 2661 8 CHF

D.95 (10/92) Charging, billing, accounting and refunds in the data messaging land/maritime mobile-satellite service

8pp E 3227 F 3226 S 3228 11 CHF

D.96 (12/99) Charging, billing, accounting and settlement principles for Global Mobile Personal Communications by Satellite (GMPCS) for the international telephone service

32pp E 17694 F 17695 S 17696 17 CHF

D.98 (03/93) Withdrawn (10/96)

Charging and accounting provisions relating to the transferred account telegraph and telematic services

Deleted after its content became technically out of date

Charging and accounting in the international telephone service

D.100 (11/88) Charging for international calls in manual or semi-automatic operating

Individually through the Electronic Bookshop: 20 CHF

D.103 (06/92) 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

1pp E 2625 F 2656 S 2687 8 CHF

D.104 (11/88) 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

Individually through the Electronic Bookshop: 20 CHF

D.105 (11/88) Charging for calls from or to a public call office

Individually through the Electronic Bookshop: 20 CHF

D.106 (11/88) Introduction of reduced rates during periods of light traffic in international telephone service

Individually through the Electronic Bookshop: 20 CHF

D.110 (06/92) Charging and accounting for conference calls

1pp E 2621 F 2652 S 2683 8 CHF

D.115 (10/96) Tariff principles and accounting for the International Freephone Service (IFS)

8pp E 9994 F 9995 S 9996 9 CHF

D.116 (10/96) Charging and accounting principles relating to the home country direct telephone service

8pp E 9997 F 9998 S 9999 9 CHF

D.117 (06/99) Charging and accounting principles for the international premium rate service (IPRS)

8pp E 16135 F 16136 S 16137 9 CHF

D.120 (07/96) Charging and accounting principles for the international telecommunication charge card service

8pp E 7323 F 7324 S 7325 9 CHF

Charging and accounting for international satellite services

D.140 (06/02) Accounting rate principles for the international telephone service

22pp E 22602 F 22603 S 22604 17 CHF

D.140 (2002) Amendment 1 (12/02) New Appendix to Annex C: Guidelines

8pp E 23157 F 23158 S 23159 9 CHF

D.140 (2002) Amendment 2 (06/03) Revision to Annex E

7pp E 24121 F 24122 S 24123 9 CHF

Charging and accounting in the international telephone service

D.140 (2002) Amendment 3 (11/03)

Revised Annex A – Guideline for the cost elements to be taken into account when determining accounting rates and accounting rate shares for the international telephone service

10pp E 24798 F 24799 S 24800 12 CHF

Charging and accounting for international satellite services

D.140 Supplement 1 (06/02) Updated teledensities and indicative target settlement rates

12pp E 22809 F 22810 S 22811 9 CHF

D.140 Supplement 2 (06/03) Updated teledensities and indicative target settlement rates (1 January 2003)

10pp E 24143 F 24144 S 24145 9 CHF

Charging and accounting in the international telephone service

D.150 (06/99) New system for accounting in international telephony

20pp E 16059 F 16060 S 16061 17 CHF

D.151 (11/88) Old system for accounting in international telephony

A correction was introduced in a Covering note by June 1990

Individually through the Electronic Bookshop: 20 CHF

D.155 (07/96) Guiding principles governing the apportionment of accounting rates in intercontinental telephone relations

8pp E 7409 F 7410 S 7411 9 CHF

Drawing up and exchange of international telephone and telex accounts

D.160 (11/88) 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

Individually through the Electronic Bookshop: 20 CHF

D.170 (06/98) Monthly telephone and telex accounts

16pp E 13757 F 13758 S 13759 12 CHF

D.171 (11/88) Adjustments and refunds in the international telephone service

Individually through the Electronic Bookshop: 20 CHF

D.172 (11/88) Accounting for calls circulated over international routes for which accounting rates have not been established

Individually through the Electronic Bookshop: 20 CHF

D.173 (11/88) Defaulting subscribers

Individually through the Electronic Bookshop: 20 CHF

D.174 (11/88) Conventional transmission of information necessary for billing and accounting regarding collect and credit card calls

Individually through the Electronic Bookshop: 20 CHF

D.176 (12/97) 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.

12pp E 13895 F 13896 S 13897 12 CHF

D.176 (1997) Amendment 1 (06/98) Year 2000 issue and its impact on ITU-T D.176 application

Published as a covering note

1pp E 13895 F 13896 S 13897 9 CHF

D.177 (11/88) Adjustment of charges and refunds in the international telex service

Individually through the Electronic Bookshop: 20 CHF

D.178 (03/93) Monthly accounts for semi-automatic telephone calls (ordinary and urgent calls, with or without special facilities)

1pp E 4201 F 4200 S 4202 8 CHF

International sound- and television-programme transmissions

D.180 (06/02) Occasional provision of circuits for international sound- and television-programme transmissions

22pp E 22800 F 22801 S 22802 17 CHF

Charging and accounting for international satellite services

D.185 (11/88) General tariff and accounting principles for international one-way point-to-multipoint satellite services

Individually through the Electronic Bookshop: 20 CHF

D.186 (10/96) General tariff and accounting principles for international two-way multipoint telecommunication service via satellite

12pp E 10003 F 10004 S 10005 12 CHF

D.188 (10/92) General charging and accounting principles applicable to an international videoconferencing service

3pp E 3207 F 3206 S 3208 8 CHF

Transmission of monthly international accounting information

D.190 (06/02) Exchange of international traffic accounting data between Administrations using electronic data interchange (EDI) techniques

14pp E 22569 F 22570 S 22571 12 CHF

Service and privilege telecommunications

D.192 (06/92) Principles for charging and accounting of service telecommunications

2pp E 2624 F 2655 S 2686 8 CHF

D.193 (11/88) Special tariff principles for privilege telecommunications

Individually through the Electronic Bookshop: 20 CHF

D.195 (11/03) Time-scale for settlement of accounts for international telecommunication services

8pp E 24764 F 24765 S 24766 9 CHF

Settlement of international telecommunication balances of accounts

D.196 (06/92) Clearing of international telecommunication balances of accounts

2pp E 2620 F 2651 S 2682 8 CHF

D.197 (07/91) Notification of change of address(es) for accounting and settlement purposes

3pp E 2119 F 2118 S 2120 7 CHF

Terms and definitions

D.201 (12/02) General principles regarding call-back practices

8pp E 23048 F 23049 S 23050 9 CHF

General tariff principles

Charging and accounting principles for international telecommunication services provided over the ISDN

D.210 (09/94) General charging and accounting principles for international telecommunication services provided over the Integrated Services Digital Network (ISDN)

3pp E 5647 F 5646 S 5648 8 CHF

D.211 (12/98) International accounting for the use of the signal transfer point and/or signalling point for relay in Signalling System No. 7

8pp E 16027 F 16028 S 16029 9 CHF

D.212 (10/96) Charging and accounting principles for the use of Signalling System No. 7

8pp E 9962 F 9963 S 9964 9 CHF

D.220 (03/91) Charging and accounting principles to be applied to international circuit-mode demand bearer services provided over the integrated services digital network (ISDN)

2pp E 2003 F 2002 S 2004 7 CHF

D.224 (12/99) Charging and accounting principles for ATM/B-ISDN

24pp E 17776 F 17777 S 17778 17 CHF

D.225 (12/97) Charging and accounting principles to be applied to frame relay data transmission service

8pp E 13703 F 13704 S 13705 9 CHF

D.230 (03/95) General charging and accounting principles for supplementary services associated with international telecommunication services provided over the Integrated Services Digital Network (ISDN)

2pp E 5979 F 5978 S 5980 8 CHF

D.231 (11/88) Charging and accounting principles relating to the User-to-User Information (UUI) supplementary service

Individually through the Electronic Bookshop: 20 CHF

D.232 (05/97) Specific tariff and accounting principles applicable to ISDN supplementary services

12pp E 11632 F 11633 S 11634 12 CHF

D.233 (07/96) Charging and accounting principles to be applied to the reversed charge supplementary service

8pp E 7415 F 7416 S 7417 9 CHF

D.240 (03/91) Charging and accounting principles for teleservices supported by the ISDN

2pp E 2015 F 2014 S 2016 7 CHF

D.250 (07/91) General charging and accounting principles for non-voice services provided by interworking between the ISDN and existing public data networks

2pp E 2125 F 2124 S 2126 7 CHF

D.251 (11/88) 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

Individually through the Electronic Bookshop: 20 CHF

D.260 (03/91) Charging and accounting capabilities to be applied on the ISDN

3pp E 2027 F 2026 S 2028 7 CHF

Charging and accounting principles for universal personal telecommunication

D.280 (03/95) Principles for charging and billing, accounting and reimbursements for universal personal telecommunication

15pp E 6120 F 6119 S 6121 15 CHF

Charging and accounting principles for intelligent network supported services

D.285 (07/96) Guiding principles for charging and accounting for intelligent network supported services

12pp E 7481 F 7482 S 7483 12 CHF

D.286 (07/96) Charging and accounting principles for the global virtual network service

8pp E 7484 F 7485 S 7486 9 CHF

Recommendations for regional application

Recommendations applicable in Europe and the Mediterranean Basin

D.300R (03/95) 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

10pp E 6102 F 6101 S 6103 11 CHF

D.301R (03/95) 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

11pp E 6150 F 6149 S 6151 11 CHF

D.302R (03/95) 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

3pp E 5976 F 5975 S 5977 8 CHF

D.303R (03/95) 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

12pp E 6147 F 6146 S 6148 11 CHF

D.305R (11/88) Withdrawn (03/95)

Remuneration for facilities used for the switchedtransit handling of intercontinental telephone traffic in a country in Europe or the Mediterranean Basin

Deleted after its content became technically out of date

Individually through the Electronic Bookshop:

D.306R (07/91) Remuneration of public packet-switched data transmission networks between the countries of Europe and the Mediterranean Basin

2pp E 2122 F 2121 S 2123 7 CHF

D.307R (03/95) 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

4pp E 6129 F 6128 S 6130 8 CHF

D.310R (03/95) 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

2pp E 5984 F 5983 S 5985 8 CHF

D.390R (11/88) Withdrawn (03/95)

Accounting system in the international automatic telephone service

Deleted after its content became technically out of date

Individually through the Electronic Bookshop:

Recommendations applicable in Latin America

D.400R (12/99) Accounting rates applicable to direct traffic relations in voice telephony between countries in Latin America and the Caribbean

24pp E 17956 F 17957 S 17958 17 CHF

D.401R (11/88) Withdrawn (09/98)

Accounting rates applicable to telex relations between countries in Latin America

Deleted following a proposal from the Tariff Group for Latin America and the Caribbean because the maximum rates indicated in this Recommendation cannot be used for negotiating accounting rates

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Recommendations applicable in Asia and Oceania

D.500R (06/98) Accounting rates applicable to telephone relations between countries in Asia and Oceania

16pp E 15428 F 15429 S 15430 12 CHF

D.501R (10/93) Accounting rates applicable to telex relations between countries in Asia and Oceania

2pp E 4668 F 4667 S 4669 8 CHF

Recommendations applicable to the African Region

D.600R (10/00) Implementor's guide for Recommendation G.763 (14 April 2000)

22pp E 19630 F 19631 S 19632 17 CHF

D.601R (10/93) Determination of accounting rate shares and collection charges in telex relations between countries in Africa

8pp E 5163 F 5221 S 5256 11 CHF

Recommendations applicable in Asia and Oceania

D.602R (12/02) Application of the 'sender pays transit' principle in transit relations

8pp E 23045 F 23046 S 23047 9 CHF

D.603R (12/02) Minimizing collection charges on inter-African calls

8pp E 23057 F 23058 S 23059 9 CHF

Recommendations applicable to the African Region

D.606R (11/88) Preferential rates in telecommunication relations between countries in Africa

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Suppl. 2 (11/88) Method for carrying out a cost price study by regional tariff groups

Suppl. 3 (03/93) Handbook on the methodology for determining costs and establishing national tariffs

44pp E 7508 F 7509 S 7510 22 CHF

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4pp E 3935 F 3934 S 3936 8 CHF

E.135 (10/95) Human factors aspects of public telecommunication terminals for people with disabilities

12pp E 6452 F 6453 S 6454 11 CHF

E.136 (05/97) Specification of a tactile identifier for use with telecommunication cards

8pp E 11982 F 11983 S 11984 9 CHF

E.137 (05/97) User instructions for payphones

16pp E 12028 F 12029 S 12030 12 CHF

General provisions concerning Administrations

E.138 (06/02) Human factors aspects of public telephones to improve their usability for older people

28pp E 22697 F 22698 S 22699 17 CHF

E.138 Erratum 1 (02/03)

Operation of international telephone services

E.140 (08/92) Operator-assisted telephone service

4pp E 3012 F 3005 S 3019 8 CHF

E.141 (03/93) Withdrawn (12/02)

Instructions for operators on the operator-assisted international telephone service

Issued as an independent instructions handbook. This Recommendation was deleted on December 20th, 2002 since it was no longer of interest

E 3382 F 3381 S 3383 23 CHF

E.148 (11/88) Routing of traffic by automatic transit exchanges

Individually through the Electronic Bookshop: 20 CHF

E.149 (11/88) Presentation of routing data

Individually through the Electronic Bookshop: 20 CHF

E.150 (11/88) Withdrawn (02/96)

Publication of a "list of international telephone routes"

Deleted after ITU-T decision not to publish the list due to the impossibility of updating it in the existing international environment

 ${\it Individually\ through\ the\ Electronic\ Bookshop:}$

E.151 (08/92) Telephone conference calls

2pp E 3013 F 3006 S 3020 8 CHF

E.152 (02/01) International freephone service

36pp E 21209 F 21210 S 21211 17 CHF

E.153 (10/96) Home country direct

8pp E 10836 F 10837 S 10838 9 CHF

E.154 (03/98) International shared cost service

28pp E 13475 F 13476 S 13477 17 CHF

E.155 (03/98) International premium rate service

25pp E 13456 F 13457 S 13548 17 CHF

E.155 (1998) Amendment 1 (02/01) The international telecommunication charge card

6pp E 20879 F 20880 S 20881 9 CHF

Numbering plan of the international telephone service

E.160 (03/93) Withdrawn (05/97)

Definitions relating to national and international numbering plans

The content of this Recommendation is now covered by ITU-T E.164 (1997)

5pp E 4563 F 4562 S 4564 8 CHF

E.161 (02/01) Arrangement of digits, letters and symbols on telephones and other devices that can be used for gaining access to a telephone network

14pp E 20885 F 20886 S 20887 12 CHF

E.162 (04/95) Withdrawn (08/03)

Capability for seven digit analysis of international E.164 numbers at time T

ITU-T Rec. E.162 was deleted on August 13, 2003 since the increased digit analysis from 6 to 7-digits at Time 'T' that it contains has been incorporated into E.164

1pp E 5989 F 5988 S 5990 8 CHF

E.163 (11/88) Withdrawn (08/91)

Numbering plan for the international telephone service

The content of this Recommendation was incorporated in ITU-T E.164 (1991)

Individually through the Electronic Bookshop:

E.164 (05/97) The international public telecommunication numbering plan

Replaces former E.163 numbering plan

24pp E 11877 F 11878 S 11879 17 CHF

E.164 Supplement 1 (03/98) Alternatives for carrier selection and network identification

16pp E 13513 F 13514 S 13515 12 CHF

E.164 Supplement 2 (11/98) Number Portability

24pp E 15318 F 15319 S 15320 17 CHF

Numbering plan and dialling procedures in the international service

E.164 Supplement 3 (05/02) Supplement 3:

Operational and administrative issues associated with national implementations of the ENUM functions

30pp E 22932 F 22933 S 22934 17 CHF

E.164 Supplement 4 (05/03) Operational and administrative issues associated with the implementation of ENUM for non-geographic country codes

17pp E 24448 F 24449 S 24450 12 CHF

Numbering plan of the international telephone service

E.164.1 (10/03) Criteria and procedures for the reservation, assignment and reclamation of E.164 country codes and associated identification codes (ICs)

23pp E 24633 F 24634 S 24635 17 CHF

E.164.2 (02/01) E.164 numbering resources for trials

10pp E 20900 F 20901 S 20902 9 CHF

E.164.3 (09/01) Principles, criteria and procedures for the assignment and reclamation of E.164 country codes and associated identification codes for groups of countries

13pp E 23185 F 23186 S 23187 12 CHF

E.165 (11/88) Timetable for coordinated implementation of the full capability of the numbering plan for the ISDN era (Recommendation E.164)

This Recommendation is also published under alias number Q.11 ter

Individually through the Electronic Bookshop: 20 CHF

E.165.1 (10/96) Use of escape code "0" within the E.164 numbering plan during the transition period to implementation of NPI mechanism

8pp E 10006 F 10007 S 10008 9 CHF

Public data networks

E.166/X.122 (03/98) 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

44pp E 13314 F 10010 S 10011 22 CHF

E.167 (11/88) ISDN network identification codes

Individually through the Electronic Bookshop:

20 CHF

Numbering plan and dialling procedures in the international service

E.168 (05/02) Application of E.164 numbering plan for UPT

18pp E 22426 F 22427 S 22428 12 CHF

E.168.1 (05/02) Assignment procedures for universal personal telecommunications (UPT) numbers in the provisioning of the UPT service

20pp E 22426 F 22427 S 22428 12 CHF

Numbering plan of the international telephone service

E.169 (05/02) Application of Recommendation E.164 numbering plan for universal international numbers for international telecommunications services using country codes for global services

14pp E 23079 F 23080 S 23081 12 CHF

E.169.1 (09/01) Application of Recommendation E.164 numbering plan for universal international freephone numbers for international freephone service

This version is a revision of former Rec. E.169 (11/1998)

30pp E 21715 F 21716 S 21717 17 CHF

E.169.2 (10/00) Application of Recommendation E.164 numbering plan for universal international premium rate numbers for the international premium rate service

24pp E 18897 F 18898 S 18899 17 CHF

E.169.3 (10/00) Application of Recommendation E.164 numbering plan for universal international shared cost numbers for international shared cost service

24pp E 18771 F 18772 S 18773 17 CHF

International routing plan

E.170 (10/92) Traffic routing

8pp E 3277 F 3276 S 3278 8 CHF

E.171 (11/88) International telephone routing plan

Individually through the Electronic Bookshop: 20 CHF

E.172 (10/92) ISDN routing plan

Replaces ITU-T 1.335 (1988).

18pp E 3354 F 3353 S 3355 15 CHF

E.173 (08/91) Routing plan for interconnection between public land mobile networks and fixed terminal networks

12pp E 2339 F 2317 S 2361 10 CHF

E.174 (04/95) Routing principles and guidance for Universal Personal Telecommunications (UPT)

9pp E 6162 F 6161 S 6163 11 CHF

E.175 (11/88) Models for international network planning

Individually through the Electronic Bookshop: 20 CHF

E.177 (10/96) B-ISDN routing

16pp E 10012 F 10013 S 10014 12 CHF

Tones in national signalling systems

E.180/Q.35 (03/98) Technical characteristics of tones for the telephone service

This Recommendation is published with the double number E.180 and Q.35

16pp E 13110 F 13111 S 13112 12 CHF

E.181 (11/88) Customer recognition of foreign tones

Individually through the Electronic Bookshop: 20 CHF

E.182 (03/98) Application of tones and recorded announcements in telephone services

12pp E 13244 F 13246 S 13248 12 CHF

E.183 (03/98) Guiding principles for telephone announcements

8pp E 13250 F 13253 S 13255 9 CHF

E.184 (11/88) Indications to users of ISDN terminals

Individually through the Electronic Bookshop: 20 CHF

Numbering plan of the international telephone service

E.190 (05/97) Principles and responsibilities for the management, assignment and reclamation of E-series international numbering resources

12pp E 11785 F 11786 S 11787 12 CHF

E.191 (03/00) B-ISDN addressing

22pp E 17930 F 17931 S 17932 17 CHF

E.191 (2000) Corrigendum 1 (02/02)

E.191.1 (02/01) Criteria and procedures for the allocation of the ITU-T International Network Designator addresses

14pp E 22154 F 22155 S 22156 12 CHF

E.193 (03/00) E.164 country code expansion

16pp E 18191 F 18194 S 18193 12 CHF

E.195 (10/00) ITU-T International numbering resource administration

12pp E 18736 F 18737 S 18738 12 CHF

Maritime mobile service and public land mobile service

E.200 (07/96) Withdrawn (10/96)

Operational provisions for the maritime mobile service

E.200 was an alias name of ITU-T F.110. Only this alias name was suppressed. ITU-T F.110 remains valid

E.201 (08/91) Withdrawn (09/02)

Reference recommendation for mobile services

This Recommendation was deleted since it has not been updated since 1991

9pp E 2335 F 2313 S 2357 10 CHF

E.202 (10/92) Network operational principles for future public mobile systems and services

6pp E 3268 F 3267 S 3269 8 CHF

E.210 (11/88) 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

Individually through the Electronic Bookshop: 20 CHF

E.211 (11/88) Withdrawn (02/02)

Selection procedures for VHF/UHF maritime mobile services

Deleted because E.211 has no service function

Individually through the Electronic Bookshop: 20 CHF

E.212 (11/98) The international identification plan for mobile terminals and mobile users

8pp E 14489 F 14490 S 14491 9 CHF

E.212 (1998) Amendment 1 (05/03) New Annex A: Criteria and procedures for the assignment of shared E.212 mobile country codes (MCC) and their respective mobile network codes (MNC)

11pp E 24158 F 24159 S 24160 9 CHF

E.213 (11/88) Telephone and ISDN numbering plan for land mobile stations in public land mobile networks (PLMN)

Individually through the Electronic Bookshop: 20 CHF

E.214 (11/88) Structure of the land mobile global title for the signalling connection control part (SCCP)

Individually through the Electronic Bookshop: 20 CHF

E.215 (05/97) Withdrawn (12/02)

Telephone/ISDN numbering plan for the mobilesatellite services of Inmarsat

Recs E.215 and F.125 were deleted on December 20th, 2002 since their content was published as an annex to ITU-T Rec. E.217 (05/2002)

20pp E 11828 F 11829 S 11830 17 CHF

E.216 (03/93) Withdrawn (10/96)

Selection procedures for the INMARSAT mobilesatellite telephone and ISDN services

Only the previous edition (1988) of ITU-T E.216 was published. 1993 edition was never published and the out-of-date Recommendation was definitively suppressed in 1996

E.217 (05/02) Maritime communications – Ship station identity

34pp E 23088 F 23089 S 23090 17 CHF

E.220 (02/96) Interconnection of public land mobile networks (PLMN)

8pp E 7136 F 7137 S 7138 9 CHF

Operational provisions relating to charging and accounting in the international telephone service

Charging in the international telephone service

E.230 (08/92) Chargeable duration of calls

1pp E 3014 F 3007 S 3021 8 CHF

E.231 (06/92) Charging in automatic service for calls terminating on a recorded announcement stating the reason for the call not being completed

This Recommendation is published under alias number D.103

E.232 (11/88) 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

Individually through the Electronic Bookshop: 20 CHF

E.251 (11/88) Withdrawn (02/98)

Old system for accounting in international telephony

E.251 was an alias name of ITU-T D.151. Only this alias name was suppressed. ITU-T D.151 remains valid

E.252 (11/88) Withdrawn ()

Mode of application of the flat-rate price procedure set forth in Recommendations D.67 and D.150 for remuneration of facilities made available to the Administrations of other countries

E.252 was an alias name of ITU-T D.160. Only this alias name was suppressed. ITU-T D.160 remains valid

Measuring and recording call durations for accounting purposes

E.260 (11/88) Basic technical problems concerning the measurement and recording of call durations

Individually through the Electronic Bookshop: 20 CHF

E.261 (11/88) Devices for measuring and recording call durations

Individually through the Electronic Bookshop: 20 CHF

E.270 (03/95) Withdrawn (02/98)

Monthly telephone and telex accounts

E.270 was an alias name of ITU-T D.170. Only this alias name was suppressed. ITU-T D.170 remains valid

E.275 (09/95) Withdrawn (02/98)

Exchange of international traffic accounting data between Administrations using electronic data interchange (EDI) techniques

E.275 was an alias name of ITU-T D.190. Only this alias name was suppressed. ITU-T D.190 remains valid

E.276 (12/97) Withdrawn (02/98)

Transmission in encoded form of telephone reversed charge billing and accounting information

E.276 was an alias name of ITU-T D.176. Only this alias name was suppressed. ITU-T D.176 remains valid

Individually through the Electronic Bookshop:

E.277 (11/88) Withdrawn (02/98)

Conventional transmission of information necessary for the collection of charges and the accounting regarding collect and credit card calls

E.277 was an alias name of ITU-T D.174. Only this alias name was suppressed. ITU-T D.174 remains valid

Supplements to the Series E Recommendations relating to the operations of the international service

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E.300 Series Supplement 5 (10/84) Modelling of an experimental test design for the determination of inexperienced user difficulties in setting up international calls using nationally available instructions, or to compare different sets of instructions

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E.300 Series Supplement 6 (11/88) Preparation of information to customers travelling abroad

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Utilization of the international telephone network for non-telephony applications

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15pp E 5098 F 5097 S 5099 11 CHF

Phototelegraphy

E.320 (11/88) Speeding up the establishment and clearing of phototelegraph calls

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E.323 (11/88) Rules for phototelegraph communications set up over circuits normally used for telephone traffic

This Recommendation is published under alias number F.82 which was subsequently renumbered as F.107

ISDN provisions concerning users

E.330 (11/88) User control of ISDN-supported services

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E.331 (10/91) Minimum user-terminal interface for a human user entering address information into an ISDN terminal

6pp E 2341 F 2319 S 2363 7 CHF

E.333 (11/88) Man-machine interface

This Recommendation is published under alias number Z.323

International routing plan

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E.352 (03/00) Routing guidelines for efficient routing methods

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E.353 (02/01) Routing of calls when using international network routing addresses

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E.360.7 (05/02) QoS routing and related traffic engineering methods – Routing table management methods and requirements

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International service statistics

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E.411 (2000) Amendment 1 (03/01)

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E.418 (05/03) Framework for network management of IMT-2000 networks

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Checking the quality of the international telephone service

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E.431 (06/92) Service quality assessment for connection set-up and release delays

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E.432 (06/92) Connection quality

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8pp	E 20921	F 20922	S 20923	9 CHF					
	93) Facsimi saction time	ile moden	n speed redu	etions	E.500 (11/98) Traffic intensity measurement principles				
3pp	E 4156	F 4155	S 4157	8 CHF	16pp	E 14598	F 14599	S 14600	12 CHF
E.453 (08/94) Facsimile image quality as corrupted			rrupted	E.501 (05) network		ation of tra	ffic offered i	in the	
-	mission-induc			0.000	28pp	E 11973	F 11974	S 11975	17 CHF
5pp	E 5653 96) Transm	F 5652	S 5654	8 CHF		/ 01) Trafficelecommunic			nentsfor
	Error Correc				34pp	E 21411	F 21412	S 21413	17 CHF
12pp	E 9914	F 9915	S 9916	12 CHF	E.503 (06		c measuren	nent data ana	alysis
	98) Test tra		for facsimile		6рр	E 2813	F 2775	S 2848	8 CHF
	transmission performance				E.504 (11)	/ 88) Traffic	c measuren	nent adminis	stration
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E.505 (06/92) Measurements of the performance of E.526 (03/93) Dimensioning a circuit group with common channel signalling network multi-slot bearer services and no overflow inputs F 2780 13pp E 2815 S 2850 11 CHF E 4949 F 4948 S 4950 9 CHF 5pp E.527 (03/00) Dimensioning at a circuit group with Forecasting of traffic multi-slot bearer services and overflow traffic **E.506 (06/92)** Forecasting international traffic F 18544 S 18545 12 CHF 16pp E 18543 E 2818 F 2783 S 2853 15 CHF 19pp E.528 (02/96) Dimensioning of digital circuit E.507 (11/88) Models for forecasting international multiplication equipment (DCME) systems traffic 20pp E 7311 F 7312 S 7313 17 CHF *Individually through the Electronic Bookshop:* 20 CHF E.529 (05/97) Network dimensioning using end-to-E.508 (10/92) Forecasting new telecommunication end GOS objectives services 40pp E 11997 F 11998 S 11999 22 CHF 20pp E 3386 F 3385 S 3387 15 CHF Grade of service Determination of the number of circuits in manual operation E.540 (11/88) Overall grade of service of the international part of an international connection E.510 (11/88) Withdrawn (09/02) Determination of the number of circuits in manual Individually through the Electronic Bookshop: 20 CHF operation This Recommendation was deleted since it has not been E.541 (11/88) Overall grade of service for updated since 1988 and is no longer of interest international connections (subscriber-to-subscriber) Individually through the Electronic Bookshop: 20 CHF Individually through the Electronic Bookshop: 20 CHF Determination of the number of circuits in E.543 (11/88) Grades of service in digital automatic and semi-automatic operation international telephone exchanges Individually through the Electronic Bookshop: 20 CHF E.520 (11/88) Number of circuits to be provided in automatic and/or semiautomatic operation, without E.550 (03/93) Grade-of-service and new overflow facilities performance criteria under failure conditions in Individually through the Electronic Bookshop: 20 CHF international telephone exchanges E 5074 F 5073 S 5075 11 CHF 9pp E.521 (11/88) Calculation of the number of circuits in a group carrying overflow traffic Definitions *Individually through the Electronic Bookshop:* 20 CHF E.522 (11/88) Number of circuits in a high-usage E.600 (03/93) Terms and definitions of traffic group engineering Individually through the Electronic Bookshop: 20 CHF 16pp E 4162 F 4161 S 4163 15 CHF E.523 (11/88) Standard traffic profiles for Traffic engineering for IP-networks international traffic streams Individually through the Electronic Bookshop: 20 CHF E.651 (03/00) Reference connections for traffic engineering of IP access networks E.524 (05/99) Overflow approximations for nonrandom inputs E 18201 F 18202 S 18203 12 CHF S 16096 12 CHF

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of service

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E 2816

F 16095

E.525 (06/92) Designing networks to control grade

F 2781

S 2851

S 18130

E.671 (03/00) Post-selection delay in PSTN/ISDN using Internet telephony for a portion of the

F 18129

E 18128

connection

12pp

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12 CHF

access networks based on hybrid fiber/coax system ISDN signalling E 22458 F 22459 S 22460 12 CHF E 13002 F 13003 S 13004 18pp 12pp 12 CHF E.730 (10/92) **Withdrawn (10/96)** ISDN traffic engineering ISDN dimensioning methods overview **E.700 (10/92)** Framework of the E.700-Series Deleted after its content became technically out of date Recommendations E.731 (10/92) Methods for dimensioning resources F 3309 S 3311 8 CHF E 3310 1pp operating in circuit-switched mode E.701 (10/92) Reference connections for traffic 9 CHF 10pp E 3429 F 3428 S 3430 engineering E 3289 E.733 (11/98) Methods for dimensioning resources in F 3288 S 3290 8 CHF 2pp Signalling System No. 7 networks E.710 (10/92) Withdrawn (10/96) 20pp E 14639 F 14640 S 14641 17 CHF ISDN traffic modelling overview Deleted after its content became technically out of date E.734 (10/96) Methods for allocating and dimensioning Intelligent Network (IN) resources E.711 (10/92) User demand modelling E 9859 F 9860 S 9861 28pp 17 CHF E 3323 F 3322 S 3324 11 CHF 9pp E.735 (05/97) Framework for traffic control and dimensioning in B-ISDN E.712 (10/92) User plane traffic modelling E 11985 F 11986 S 11987 17 CHF E 3313 F 3312 S 3314 11 CHF 14pp 32pp E.713 (10/92) Control plane traffic modelling **E.736 (03/00)** Methods for cell level traffic control in **B-ISDN** Only the title changes 36pp E 18649 F 18650 S 18651 22 CHF F 3388 S 3390 E 3389 8 CHF 8pp E.737 (02/01) Dimensioning methods for B-ISDN E.716 (10/96) User demand modelling in Broadband-**ISDN** 46pp E 21020 F 21021 S 21022 22 CHF E 9917 F 9918 S 9919 12 CHF 16pp E.743 (04/95) Traffic measurements for SS No. 7 dimensioning and planning E.720 (11/88) ISDN grade of service concept E 6004 F 6003 S 6005 8 CHF 3pp Individually through the Electronic Bookshop: 20 CHF E.744 (10/96) Traffic and congestion control E.721 (05/99) Network grade of service parameters requirements for SS No. 7 and IN-structured and target values for circuit-switched services in the networks evolving ISDN E 9920 F 9921 S 9922 12 CHF 16pp E 16014 F 16015 S 16016 12 CHF 12pp E.745 (03/00) Cell level measurement requirements E.723 (06/92) Grade-of-service parameters for for the B-ISDN Signalling System No. 7 networks E 2820 F 2785 S 2855 8 CHF E 18646 F 18647 S 18648 17 CHF 20pp E.724 (02/96) GOS parameters and target GOS Mobile network traffic engineering objectives for IN services S 7156 12 CHF E 7154 F 7155 12pp E.750 (03/00) Introduction to the E.750 series of Recommendations on traffic engineering aspects of networks supporting personnal communications E.726 (03/00) Network grade of service parameters services and target values for B-ISDN E 18275 F 18276 S 18277 17 CHF 16pp E 18546 F 18547 S 18548 12 CHF 20pp

E.728 (03/98) Grade-of-service parameters for B-

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E.681 (10/01) Traffic engineering methods for IP

E.751 (02/96) Reference connections for traffic engineering of land mobile networks

12pp E 7206 F 7207 S 7208 12 CHF

E.752 (10/96) Reference connections for traffic engineering of maritime and aeronautical systems

20pp E 10015 F 10016 S 10017 17 CHF

E.755 (02/96) Reference connections for UPT traffic performance and GOS

8pp E 7036 F 7037 S 7038 9 CHF

E.760 (03/00) Terminal mobility traffic modelling

20pp E 18390 F 18391 S 18392 17 CHF

E.770 (03/93) Land mobile and fixed network interconnection traffic grade of service concept

3pp E 4308 F 4307 S 4309 8 CHF

E.771 (10/96) Network grade of service parameters and target values for circuit-switched public land mobile services

20pp E 9923 F 9924 S 9925 17 CHF

E.773 (10/96) Maritime and aeronautical mobile grade of service concept

8pp E 9862 F 9863 S 9864 9 CHF

E.774 (10/96) Network grade of service parameters and target values for maritime and aeronautical mobile services

12pp E 9865 F 9866 S 9867 12 CHF

E.775 (02/96) UPT grade of service concept

8pp E 7104 F 7105 S 7106 9 CHF

E.776 (10/96) Network grade of service parameters for UPT

8pp E 9868 F 9869 S 9870 9 CHF

Quality of telecommunication services: concepts, models, objectives and dependability planning

Terms and definitions related to the quality of telecommunication services

E.800 (08/94) Terms and definitions related to quality of service and network performance including dependability

53pp E 5867 F 5866 S 5868 20 CHF

Supplements to the Series E Recommendations relating to telephone network management and traffic engineering

E.800 Series Supplement 5 (11/88) Teletraffic implications for international switching and operational procedures resulting from a failure of a transmission facility

Individually through the Electronic Bookshop: 20 CHF

E.800 Series Supplement 2 (11/88) Curves showing the relation between the traffic offered and the number of circuits required

Individually through the Electronic Bookshop: 20 CHF

E.800 Series Supplement 7 (11/88) Guide for evaluating and implementing alternate routing networks

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Terms and definitions related to the quality of telecommunication services

E.801 (10/96) Framework for service quality agreement

20pp E 9982 F 9983 S 9984 17 CHF

Models for telecommunication services

E.810 (10/92) Framework of the Recommendations on the serveability performance and service integrity for telecommunication services

2pp E 3326 F 3325 S 3327 8 CHF

E.820 (10/92) Call models for serveability and service integrity performance

9pp E 3329 F 3328 S 3330 8 CHF

E.830 (10/92) Models for the specification, evaluation and allocation of serveability and service integrity

3pp E 3304 F 3303 S 3305 8 CHF

Objectives for quality of service and related concepts of telecommunication services

E.845 (11/88) Connection accessibility objective for the international telephone service

E.846 (03/93) Accessibility for 64 kbit/s circuit-switched international end-to-end ISDN connection types

6pp E 5077 F 5076 S 5078 8 CHF

E.850 (10/92) Connection retainability objective for the international telephone service

5pp E 3316 F 3315 S 3317 9 CHF

E.855 (11/88) Connection integrity objective for the international telephone service

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Use of quality of service objectives for planning of telecommunication networks

E.860 (06/02) Framework of a service level agreement

30pp E 22803 F 22804 S 22805 17 CHF

E.862 (06/92) Dependability planning of telecommunication networks

13pp E 2821 F 2786 S 2856 11 CHF

Field data collection and evaluation on the performance of equipment, networks and services

E.880 (11/88) Field data collection and evaluation on the performance of equipment, networks and services

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Non-telephone telecommunication services

Telegraph service

Operating methods for the international public telegram service

F.1 (03/98) Operational provisions for the international public telegram service

64pp E 13031 F 13032 S 13033 29 CHF

F.2 (11/88) Operational provisions for the collection of telegram charges

Published as F.42 (11/88), then renumbered as F.2

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Individually through the Electronic Bookshop: 20 CHF

F.11 (10/91) Continued availability of traditional services

2pp E 2347 F 2325 S 2369 7 CHF

F.12 (03/93) Withdrawn (10/00)

Major degradation or disruption of service

This Recommendation is published under alias number A 30

This Recommendation was published under alias number A.30, which was deleted and transfered to ITU-T C.2

F.13 (11/88) Withdrawn (07/96)

Operational provisions for participation in the transferred account telegraph and telematic service

Published as F.41 (11/88), then renumbered as F.13. It was deleted after the withdrawal of the transferred account telegraph and telematic service

Individually through the Electronic Bookshop:

F.14 (08/92) General provisions for one-stop-shopping arrangements

2pp E 2878 F 2870 S 2886 8 CHF

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2pp E 2880 F 2872 S 2888 8 CHF

F.16 (02/95) Global virtual network service

19pp E 5973 F 5972 S 5974 15 CHF

F.17 (08/92) Operational aspects of service telecommunications

2pp E 2881 F 2873 S 2889 8 CHF

F.18 (03/98) Guidelines on harmonization of international public bureau services

12pp E 13073 F 13074 S 13075 12 CHF

F.19 (01/96) Collection and dissemination of official serviceinformation

10pp E 22741 F 22741 S 22741 9 CHF

F.19 (01/02) Collection and dissemination of official service information

Formerly C.2, renumbered as F.19 on 25/01/2002 without further modification

The s	zentex	network	k
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F.20 (11/88) The international gentex service

Individually through the Electronic Bookshop: 20 CHF

F.21 (11/88) Composition of answer-back codes for the international gentex service

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F.23 (11/88) Grade of service for long-distance international gentex circuits

Individually through the Electronic Bookshop: 20 CHF

F.24 (11/88) Average grade of service from country to country in the gentex service

Individually through the Electronic Bookshop: 20 CHF

Message switching

F.30 (03/93) Use of various sequences of combinations for special purposes

2pp E 3732 F 3731 S 3733 8 CHF

F.31 (11/88) Telegram retransmission system

Individually through the Electronic Bookshop: 20 CHF

F.32 (10/95) Telegram destination indicators

Formerly Rec. F.96.

8pp E 6438 F 6439 S 6440 8 CHF

F.35 (11/88) Provisions applying to the operation of an international public automatic message switching service for equipments utilizing the international telegraph Alphabet No. 2

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The international telemessage service

F.40 (03/91) International public telemessage service *Formerly Rec. F.50.*

10pp E 1954 F 1953 S 1955 10 CHF

F.41 (03/91) Interworking between the telemessage service and the international public telegram service *Formerly Rec. F.51.*

2pp E 1963 F 1962 S 1964 7 CHF

The international telex service

F.59 (10/96) General characteristics of the international telex service

12pp E 10889 F 10890 S 10891 12 CHF

F.60 (08/92) Operational provisions for the international telex service

31pp E 3009 F 3002 S 3016 15 CHF

F.61 (11/88) Operational provisions relating to the chargeable duration of a telex call

Individually through the Electronic Bookshop: 20 CHF

F.63 (03/93) Additional facilities in the international telex service

2pp E 3748 F 3747 S 3749 8 CHF

F.64 (11/88) Determination of the number of international telex circuits required to carry a given volume of traffic

Individually through the Electronic Bookshop: 20 CHF

F.65 (11/88) Time-to-answer by operators at international telex positions

Individually through the Electronic Bookshop: 20 CHF

F.68 (11/88) Establishment of the automatic intercontinental telex network

Individually through the Electronic Bookshop: 20 CHF

F.69 (06/94) The international telex service – Service and operational provisions of telex destination codes and telex network identification codes

5pp E 5456 F 5455 S 5457 8 CHF

F.70 (11/88) Evaluating the quality of the international telex service

Individually through the Electronic Bookshop: 20 CHF

F.71 (11/88) Interconnection of private teleprinter networks with the telex network

Individually through the Electronic Bookshop: 20 CHF

F.72 (10/96) The international telex service – General principles and operational aspects of a store and forward facility

20pp E 11009 F 11010 S 11011 17 CHF

F.73 (07/90) Operational principles for communication between terminals of the international telex service and data terminal equipment on packet-switched public data networks

Corr. 12/90

6pp E 1887 F 1886 S 1888 7 CHF

F.74 (08/92) Intermediate storage devices accessed from the international telex service using single stage selection – Answerback format

2pp E 2876 F 2868 S 2884 8 CHF

F.80 (10/91) Basic requirements for interworking relations between the international telex service and other services

3pp E 2348 F 2326 S 2370 7 CHF

F.82 (10/91) Operational provisions to permit interworking between the international telex service and the intex service

2pp E 2345 F 2323 S 2367 7 CHF

F.83 (07/90) 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.

6pp E 1887 F 1886 S 1888 7 CHF

F.85 (11/88) Message handling services – Intercommunication between the IPM service and the telex service

This Recommendation was renumbered from F.75, and is published under alias number F.421

Covering note, December 1999: Intercommunication between the IPM service and the telex service.

Individually through the Electronic Bookshop:

F.86 (10/91) Interworking between the international telex service and the videotex service

6pp E 2350 F 2328 S 2372 7 CHF

F.87 (03/91) 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.

9pp E 1966 F 1965 S 1967 10 CHF

F.89 (08/92) Status enquiry function in the international telex service

4pp E 2877 F 2869 S 2885 8 CHF

Statistics and publications on international telegraph services

F.91 (11/88) Withdrawn (07/96)

General statistics for the telegraph services

Deleted as a consequence of the abolishion of a number of service documents

Individually through the Electronic Bookshop:

F.92 (11/88) Withdrawn (07/96)

Service codes

The content of this Recommendation is now covered by ITU-T F.32

Individually through the Electronic Bookshop:

F.93 (11/88) Withdrawn (07/96)

Routing table for offices connected to the gentex service

Deleted as a consequence of the abolishion of a number of service documents

Individually through the Electronic Bookshop:

F.95 (11/88) Withdrawn (07/96)

Table of international telex relations and traffic

Deleted as a consequence of the abolishion of a number of service documents

Individually through the Electronic Bookshop:

Scheduled and leased communication services

F.100 (11/88) Scheduled radiocommunication service

Individually through the Electronic Bookshop: 20 CHF

F.104 (10/91) International leased circuit services – customer circuit designations

2pp E 2342 F 2320 S 2364 7 CHF

Phototelegraph service

F.105 (11/88) Operational provisions for phototelegrams

Published as F.80 (11/88), then renumbered as F.105.

Individually through the Electronic Bookshop: 20 CHF

F.106 (11/88) Operational provisions for private phototelegraph calls

Published as F.80 bis (11/88), then renumbered as F.106.

Individually through the Electronic Bookshop: 20 CHF

F.107 (11/88) 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.

Individually through the Electronic Bookshop: 20 CHF

F.108 (11/88) Operating rules for international phototelegraph calls to multiple destinations

Published as F.85 (11/88), then renumbered as F.108.

Mobile service

Mobile services and multidestination satellite services

F.110 (07/96) Operational provisions for the maritime mobile service

The date of entry into effect of this Recommendation edition is 1 January 1997.

24pp E 9562 F 9563 S 9564 17 CHF

F.111 (03/91) Principles of service for mobile systems

2pp E 1969 F 1968 S 1970 7 CHF

F.112 (11/88) Quality objectives for 50-baud start-stop telegraph transmission in the maritime mobile-satellite service

Individually through the Electronic Bookshop: 20 CHF

F.113 (08/92) Service provisions for aeronautical passenger communications supported by mobile-satellite systems

3pp E 2879 F 2871 S 2887 8 CHF

F.115 (02/95) Service objectives and principles for future public land mobile telecommunication systems

9pp E 5967 F 5966 S 5968 11 CHF

F.116 (03/00) Service features and operational provisions in IMT-2000

16pp E 18042 F 18043 S 18044 12 CHF

F.120 (11/88) Ship station identification for VHF/UHF and maritime mobile-satellite services

This Recommendation is also published under alias number E.210

Individually through the Electronic Bookshop: 20 CHF

F.122 (11/88) Operational procedures for the maritime satellite data transmission service

Individually through the Electronic Bookshop: 20 CHF

F.125 (08/93) Numbering plan for access to the mobile-satellite services of INMARSAT from the international telex service

Recs E.215 and F.125 were deleted on December 20th, 2002 since their content was published as an annex to ITU-T Rec. E.217 (05/2002)

8pp E 4496 F 4495 S 4497 11 CHF

F.127 (10/96) Operational procedures for interworking between the international telex service and the service offered by the INMARSAT-C system

8pp E 10801 F 10802 S 10803 9 CHF

F.130 (11/88) Maritime answer-back codes

Individually through the Electronic Bookshop: 20 CHF

F.131 (11/88) Radiotelex service codes

Individually through the Electronic Bookshop: 20 CHF

F.140 (03/93) Point-to-multipoint telecommunication service via satellite

4pp E 3862 F 3861 S 3863 8 CHF

F.141 (06/94) International two-way multipoint telecommunication service via satellite

3pp E 5468 F 5467 S 5469 8 CHF

F.150 (10/91) Service and operational provisions for the Intex service

4pp E 2349 F 2327 S 2371 7 CHF

Telematic services

Public facsimile service

F.160 (03/93) Withdrawn (07/99)

General operational provisions for the international public facsimile services

Deleted as a result of liberalisation in the telecommunications environment resulting in the removal of international regulated services

5pp E 3672 F 3671 S 3673 8 CHF

F.162 (07/96) Service and operational requirements of store-and-forward facsimile service

12pp E 9565 F 9566 S 9567 12 CHF

F.163 (07/96) Operational requirements of the interconnection of facsimile store-and-forward units

12pp E 9651 F 9652 S 9653 12 CHF

F.166 (07/96) Withdrawn (07/99)

Service and operational requirements for a fax database service (FaxDB)

Deleted as there are no plans for the introduction of a service of this nature

8pp E 7275 F 7276 S 7277 9 CHF

F.170 (03/98) Operational provisions for the international public facsimile service between public bureaux (Bureaufax)

12pp E 13034 F 13035 S 13036 12 CHF

F.171 (11/88) Operational provisions relating to the use of store-and-forward switching nodes within the bureaufax service

F.180 (10/96) Withdrawn (07/99)

General operational provisions for the international public facsimile service between subscribers' terminals (Telefax)

Deleted as a result of liberalisation in the telecommunications environment resulting in the removal of international regulated services

12pp E 10771 F 10772 S 10773 12 CHF

F.182 *bis* (10/96) Guidelines for the support of the communication of documents using Group 3 facsimile between user terminals via public networks 8pp E 10777 F 10778 S 10779 9 CHF

F.182 (10/96) Withdrawn (07/99)

Operational provisions for the international public facsimile service between subscribers with Group 3 facsimile terminals (Telefax 3)

Deleted as a result of liberalisation in the telecommunications environment resulting in the removal of international regulated services

8pp E 10774 F 10775 S 10776 9 CHF

F.184 (07/96) Withdrawn (07/99)

Operational provisions for the international public facsimile service between subscriber stations with group 4 facsimile terminals (telefax 4)

Deleted as a result of liberalisation in the telecommunications environment resulting in the removal of international regulated services

16pp E 7487 F 7488 S 7489 12 CHF

F.185 (06/98) Internet facsimile: Guidelines for the support of the communication of facsimile documents

8pp E 13964 F 13965 S 13966 9 CHF

F.190 (08/92) Operational provisions for the international facsimile service between public bureaux and subscriber stations and vice versa (bureaufax-telefax and vice versa)

3pp E 2989 F 2982 S 2996 8 CHF

Teletex service

F.200 (08/92) Withdrawn (07/96)

Teletex service

Deleted as a consequence of the suppression of Teletex service

F.201 (03/93) Withdrawn (07/96)

Interworking between teletex service and telex service – General principles

Deleted as a consequence of the suppression of Teletex service

F.202 (11/88) Withdrawn (07/96)

Interworking between the telex service and the teletex service – General procedures and operational requirements for the international interconnection of telex/teletex conversion facilities

Deleted as a consequence of the suppression of Teletex service

Individually through the Electronic Bookshop:

F.203 (11/88) Withdrawn (07/96)

Network based storage for the teletex service

Deleted as a consequence of the suppression of Teletex service

Individually through the Electronic Bookshop:

F.220 (03/93) Withdrawn (07/96)

Service requirements unique to the processable mode number eleven (PM11) used within the teletex service

Deleted as a consequence of the suppression of Teletex service

F.230 (11/88) Withdrawn (07/96)

Service requirements unique to the mixed mode (MM) used within the teletex service

Deleted as a consequence of the suppression of Teletex service

Individually through the Electronic Bookshop:

Videotex service

services

F.300 (03/93) Videotex service

30pp E 4029 F 4028 S 4030 20 CHF

F.301 (10/95) Fast speed PSTN videotex

8pp E 6645 F 6646 S 6647 8 CHF

General provisions for telematic services

F.350 (11/88) Application of Series T Recommendations

Individually through the Electronic Bookshop:

F.351 (11/88) General principles on the presentation of terminal identification to users of the telematic

20 CHF

Individually through the Electronic Bookshop: 20 CHF

F.353 (11/88) Provision of telematic and data transmission services on integrated services digital network (ISDN)

Individually through the Electronic Bookshop: 20 CHF

Message handling services

F.400/X.400 (06/99) Message handling services: Message handling system and service overview To be published...

F.401 (08/92) Message handling services: Naming and addressing for public message handling services

19pp E 3077 F 3076 S 3078 15 CHF

F.410 (08/92) Message handling system: The public message transfer service

9pp E 3061 F 3060 S 3062 11 CHF

F.415 (11/88) Message handling system:

Intercommunication with public physical delivery services

Erratum in F.410 (08/92)

Individually through the Electronic Bookshop: 20 CHF

F.420 (08/92) Message handling system: The public interpersonal messaging service

14pp E 3071 F 3070 S 3072 11 CHF

F.421 Errata (12/99) Errata to Recommendation F.421 (11/88)

F.421 (11/88) 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.

Individually through the Electronic Bookshop: 20 CHF

F.422 (11/88) Withdrawn (07/96)

Message handling services: Intercommunication between the IPM service and the teletex service

Deleted as a consequence of the suppression of Teletex service

Individually through the Electronic Bookshop:

F.423 (08/92) Message handling system: Intercommunication between the interpersonal messaging service and the telefax service

6pp E 3064 F 3063 S 3065 8 CHF

F.435 (06/99) Message handling services: Electronic Data Interchange messaging service

54pp E 17675 F 17676 S 17677 29 CHF

F.440 (08/92) Message handling services: The voice messaging service

32pp E 3080 F 3079 S 3081 20 CHF

F.471 (08/97) Operational requirements for the interconnection of voice-mail store-and-forward units

16pp E 11952 F 11953 S 11954 12 CHF

F.471 (1997) Corrigendum 1 (09/98)

F.472 (08/97) Service and operational requirements of the voice-mail store-and-forward service

16pp E 11926 F 11927 S 11928 12 CHF

Directory services

F.500 (08/92) International public directory services

37pp E 3192 F 3191 S 3193 20 CHF

F.510 (02/03) Automated directory assistance – White pages service definition

54pp E 23964 F 23965 S 23966 29 CHF

F.515 (04/03) Unified Directory Specification

71pp E 24364 F 24365 S 24366 34 CHF

Document communication

F.551 (03/93) Withdrawn (05/00)

Service Recommendation for the telematic file transfer within telefax 3, telefax 4, teletex services and message handling services

This Recommendation is no longer needed since the characteristics of the file transfer capabilities are fully described in ITU-T T.434 (BFT)

4pp E 3723 F 3722 S 3724 8 CHF

Programming communication interfaces

F.581 (03/93) Guidelines for programming communication interfaces (PCIs) definition: service Recommendation

8pp E 3977 F 3976 S 3978 11 CHF

Data transmission services

F.600 (09/98) Service and operational principles for public data transmission service

12pp E 14601 F 14602 S 14603 12 CHF

F.600 (04/04) Service and operational principles for public data transmission service

To be published...

Audiovisual services

F.700 (11/00) Framework Recommendation for multimedia services

56pp E 18501 F 18502 S 18503 29 CHF

F.701 (11/00) Guideline Recommendation for identifying multimedia service requirements

12pp E 18733 F 18734 S 18735 12 CHF

F.701 (11/88) Withdrawn (05/98)

Teleconference service

This Recommendation was published as F.710 (11/88), then renumbered as F.701. Its content is superseded by ITU-T F.702 on multimedia

32pp	E 9771	F 9772	S 9773	17 CHF	F.811 (07/9 service	6) Broa	adband conne	ection-orien	ted bearer
F.703 (11/0	0) Multin	nedia conv	ersational se	ervices		E 9752	F 9753	S 9754	22 CHF
20pp	E 18874	F 18875	S 18876	17 CHF	24pp	E 9/32	Г 9733	3 9/34	22 CHF
F.710 (03/9		hdrawn (0			F.812 (08/9 service	2) Broa	adband conne	ectionless da	ata bearer
General p service	rinciples fo	or audiogra	phic confere	ence	6рр	E 3136	F 3135	S 3137	8 CHF
The content of this Recommendation is superseded by ITU-T F.702 on multimedia				F.813 (02/9 permanen		ual path serv	ice for reser	ved and	
12pp	E 1997	F 1996	S 1998	10 CHF	13pp	E 5998	F 5997	S 5999	11 CHF
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	t of this Rec 31 on multin		on is supersed	ed by	F.850 (03/9 telecomm		ciples of univ n (UPT)	versal person	nal
8pp	E 4686	F 4685	S 4687	11 CHF	2pp	E 3681	F 3680	S 3682	8 CHF
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F.721 (08/9	2) Video	telephony t	eleservice fo	or ISDN	E 052 (02/0	ω ττ ·	1	1 . 1	. ,.
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F.730 (08/9 Videocon	2) With ference ser	h <mark>drawn (0</mark> vice – Gen			16pp	E 1460	4 F 14605	S 14606	12 CHF
The content of this Recommendation is superseded by ITU-T F.702 on multimedia				ed by	Human fa	ctors			
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,	F.761 (11/88) Service-oriented requirements for telewriting applications				telematic	and data	transmission	services	20 CHF
Published as F.730 (11/88), then renumbered as F.761.				Sunnl. 2 (1	1/88) Te	rms and defi	nitions for to	elex	
Individually through the Electronic Bookshop: 20 CHF					~ -PP (1	, 10	3114 4011		20 CHF

ISDN services

F.702 (07/96) Multimedia conference services

SERIES G

Transmission systems and media, digital systems and networks

Suppl. 39 (03/04) Optical system design and engineering considerations

84pp E 25243 34 CHF

General definitions

G.100 (02/01) Definitions used in Recommendations on general characteristics of international telephone connections and circuits

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Supplements to Section 1 of the Series G Recommendations

G.100 Series Supplement 29 (03/93) Planning of mixed analogue-digital circuits (chains, connections)

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G.100 Series Supplement 31 (03/93) Principles of determining an impedance strategy for the local network

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G.100 Series Supplement 32 (03/93) Transmission aspects of digital mobile radio systems

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International telephone connections and circuits

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G.100.1 (11/01) The use of the decibel and of relative levels in speechband telecommunications

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G.101 (11/03) The transmission plan

34pp E 24864 17 CHF

G.102 (11/88) Transmission performance objectives and Recommendations

Individually through the Electronic Bookshop: 20 CHF

G.103 (12/98) Hypothetical reference connections

20pp E 14645 F 14646 S 14647 17 CHF

G.105 (11/88) Hypothetical reference connection for crosstalk studies

Individually through the Electronic Bookshop: 20 CHF

G.107 (07/02) The E-Model, a computational model for use in transmission planning

26pp E 22797 F 22798 S 22799 17 CHF

G.107 (03/03) The E-Model, a computational model for use in transmission planning

25pp E 24222 F 24223 S 24224 17 CHF

G.108 (09/99) Application of the E-model: A planning guide

Covering note, November 2000: Erratum

140pp E 17913 F 17914 S 17915 55 CHF

G.108 (1999) Amendment 1 (09/03)

New Appendix I: The relationship between and interaction of talker echo and absolute delay

11pp E 24770 F 24771 S 24772 9 CHF

G.108 (1999) Amendment 2 (03/04) Appendix II: Planning examples regarding delay in packet based networks

14pp E 25685 12 CHF

G.108 Appendix I (09/03) The relationship between and interaction of talker echo and absolute delay To be published...

G.108 Erratum (12/00) Erratum to Recommendation ITU-T G.108 (09/99)

G.108.1 (05/00) Guidance for assessing conversational speech transmission quality effects not covered by the E-model

20pp E 19424 F 19425 S 19426 17 CHF

G.108.2 (01/03) Transmission planning aspects of echo cancellers

22pp E 24257 F 27258 S 24259 17 CHF

G.109 (09/99) Definition of categories of speech transmission quality

8pp E 17587 F 17588 S 17589 9 CHF

General Recommendations on the transmission quality for an entire international telephone connection

G.111 (03/93) Loudness ratings (LRs) in an international connection

17pp E 4952 F 4951 S 4953 15 CHF

G.113 (02/01) Transmission impairments due to speech processing

Appendix I in G.113 was revised by 10/2001 version

26pp E 21034 F 21035 S 21036 17 CHF

G.113 Appendix I (05/02) Provisional planning values for the equipment impairment factor Ie and packet-loss robustness factor Bpl

10pp E 22649 F 22650 S 22651 9 CHF

G.114 (05/03) One-way transmission time

19pp E 24508 F 24509 S 24510 12 CHF

G.114 Amendment 1 (09/03) New Appendix II: Guidance on one-way delay for Voice over IP

The text introduced by this amendment was directly included in G.114 (05/2003)

To be published...

G.114 Appendix II (09/03) Guidance on one-way delay for Voice over IP

To be published...

G.115 (02/96) Mean active speech level for announcement and speech synthesis systems

4pp E 7039 F 7040 S 7041 9 CHF

G.116 (09/99) Transmission performance objectives applicable to end-to-end international connections

16pp E 17578 F 17579 S 17580 12 CHF

G.117 (02/96) Transmission aspects of unbalance about earth

20pp E 7288 F 7290 S 7291 17 CHF

General characteristics of national systems forming part of international connections

G.120 (12/98) Transmission characteristics of national networks

16pp E 14677 F 14678 S 14679 12 CHF

G.121 (03/93) Loudness ratings (LRs) of national systems

13pp E 4656 F 4655 S 4657 11 CHF

G.122 (03/93) Influence of national systems on stability and talker echo in international connections

11pp E 4814 F 4813 S 4815 11 CHF

G.125 (11/88) Withdrawn (03/99)

Characteristics of national circuits on carrier systems

The content of this Recommendation is now covered by ITU-T G.120

Individually through the Electronic Bookshop: 20 CHF

G.126 (03/93) Listener echo in telephone networks

7pp E 4659 F 4658 S 4660 11 CHF

General characteristics of the 4-wire chain formed by the international circuits and national extension circuits

G.131 (11/03) Talker echo and its control

17pp E 24967 F 24968 S 24969 12 CHF

G.132 (11/88) Withdrawn (03/99)

Attenuation distortion

The content of this Recommendation is now covered by ITU-T G.120

Individually through the Electronic Bookshop: 20 CHF

G.133 (11/88) Withdrawn (03/99)

Group-delay distortion

The content of this Recommendation is now covered by ITU-T G.120

Individually through the Electronic Bookshop: 20 CHF

G.134 (11/88) Withdrawn (03/99)

Linear crosstalk

The content of this Recommendation is now covered by ITU-T G.120

Individually through the Electronic Bookshop: 20 CHF

G.135 (11/88) Withdrawn (03/99)

Error on the reconstituted frequency

The content of this Recommendation is now covered by ITU-T G.120

Individually through the Electronic Bookshop: 20 CHF

G.136 (09/99) Application rules for automatic level control devices

Covering note, May 2000: Erratum

8pp E 17347 F 17348 S 17349 9 CHF

G.136 Erratum (12/00) Erratum to Recommendation ITU-T G.136 (09/99)

General characteristics of the 4-wire chain of international circuits: international transit

G.141 (11/88) Withdrawn (03/99)

Attenuation distortion

The content of this Recommendation is now covered by ITU-T G.120

G.142 (12/98) Transmission characteristics of exchanges

12pp E 14726 F 14728 S 14730 12 CHF

G.143 (11/88) Withdrawn (09/97)

Circuit noise and the use of compandors

Deleted because it deals with compandor transmission aspects, which use is no more recommended in networks

Individually through the Electronic Bookshop: 20 CHF

General characteristics of international telephone circuits and national extension circuits

G.151 (11/88) Withdrawn (03/99)

General performance objectives applicable to all modern international circuits and national extension circuits

Individually through the Electronic Bookshop: 20 CHF

G.152 (11/88) Withdrawn (03/99)

Characteristics appropriate to long-distance circuits of a length not exceeding 2500 km

Individually through the Electronic Bookshop: 20 CHF

G.153 (11/88) Withdrawn (03/99)

Characteristics appropriate to international circuits more than 2500 km in length

Individually through the Electronic Bookshop: 20 CHF

Apparatus associated with long-distance telephone circuits

G.161 (06/02) Interaction aspects of signal processing network equipment

32pp E 22751 F 22752 S 22753 17 CHF

G.161 (10/76) Withdrawn (03/93)

Echo-suppressors suitable for circuits having either short or long propagation times

Deleted after its content became technically out of date

Individually through the Electronic Bookshop:

G.162 (11/88) Withdrawn (02/99)

Characteristics of compandors for telephony

Individually through the Electronic Bookshop: 20 CHF

G.163 (11/88) Withdrawn (03/93)

Call concentrating systems

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G.164 (11/88) Echo suppressors

Individually through the Electronic Bookshop: 22 CHF

G.165 (03/93) Echo cancellers

27pp E 4246 F 4245 S 4247 20 CHF

G.166 (11/88) Withdrawn (02/99)

Characteristics of syllabic compandors for telephony on high capacity long distance systems

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Individually through the Electronic Bookshop: 20 CHF

G.167 (03/93) Acoustic echo controllers

16pp E 4108 F 4107 S 4109 15 CHF

G.168 (06/02) Digital network echo cancellers

108pp E 23300 F 23301 S 23302 44 CHF

G.169 (07/99) Automatic level control devices

32pp E 16467 F 16468 S 16469 17 CHF

Transmission plan aspects of special circuits and connections using the international telephone connection network

G.171 (11/88) Withdrawn (01/00)

Transmission plan aspects of privately operated networks

Deleted because it refers to obsolete Recommendations. For guidance on transmission planning or on private/public network interconnection, refer to ITU-T G.175 and G.108

Individually through the Electronic Bookshop: 20 CHF

G.172 (11/88) Transmission plan aspects of international conference calls

Individually through the Electronic Bookshop: 20 CHF

G.173 (03/93) Transmission planning aspects of the speech service in digital public land mobile networks

18pp E 4871 F 4870 S 4872 15 CHF

G.174 (06/94) Transmission performance objectives for terrestrial digital wireless systems using portable terminals to access the PSTN

13pp E 5558 F 5557 S 5559 11 CHF

G.175 (05/00) Transmission planning for private/public network interconnection of voice traffic

20pp E 19394 F 19395 S 19396 12 CHF

G.176 (04/97) Planning guidelines for the integration of ATM technology into networks supporting voiceband services

16pp E 11720 F 11721 S 11722 12 CHF

G.177 (09/99) Transmission planning for voiceband services over hybrid Internet/PSTN connections

20pp E 17489 F 17490 S 17491 17 CHF

Protection and restoration of transmission systems

G.180 (03/93) Characteristics of N+M type direct transmission restoration systems for use on digital and analogue sections, links or equipment

12pp E 4090 F 4089 S 4091 11 CHF

G.181 (03/93) Characteristics of 1 + 1 type restoration systems for use on digital transmission links

3pp E 4005 F 4004 S 4006 8 CHF

Software tools for transmission systems

G.191 (11/00) 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.

16pp E 20702 F 20703 S 20704 62 CHF

G.192 (03/96) A common digital parallel interface for speech standardisation activities

20pp E 6825 F 6826 S 6827 17 CHF

General characteristics common to all analogue carrier-transmission systems

Definitions and general considerations

G.211 (11/88) Make-up of a carrier link *Individually through the Electronic Bookshop:* 20 CHF

G.212 (11/88) Hypothetical reference circuits for analogue systems

Individually through the Electronic Bookshop: 20 CHF

G.213 (11/88) Interconnection of systems in a main repeater station

Individually through the Electronic Bookshop: 20 CHF

G.214 (11/88) Line stability of cable systems

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G.215 (11/88) Hypothetical reference circuit of 5000 km for analogue systems

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General Recommendations

G.221 (11/88) Overall recommendations relating to carrier-transmission systems

Individually through the Electronic Bookshop: 20 CHF

G.222 (11/88) Noise objectives for design of carrier-transmission systems of 2500 km

Individually through the Electronic Bookshop: 20 CHF

G.223 (11/88) Assumptions for the calculation of noise on hypothetical reference circuits for telephony *Individually through the Electronic Bookshop:* 20 CHF

G.224 (11/88) 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

Individually through the Electronic Bookshop: 20 CHF

G.225 (11/88) Recommendations relating to the accuracy of carrier frequencies

Individually through the Electronic Bookshop: 20 CHF

G.226 (11/88) Noise on a real link

Individually through the Electronic Bookshop: 20 CHF

G.227 (11/88) Conventional telephone signal

Individually through the Electronic Bookshop: 20 CHF

G.228 (11/88) Measurement of circuit noise in cable systems using a uniform-spectrum random noise loading

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G.229 (11/88) Unwanted modulation and phase jitter *Individually through the Electronic Bookshop:* 20 CHF

Translating equipment used on various carriertransmission systems

G.230 (11/88) Measuring methods for noise produced by modulating equipment and through-connection filters

Individually through the Electronic Bookshop: 20 CHF

G.231 (11/88) Arrangement of carrier equipment

Individually through the Electronic Bookshop: 20 CHF

G.232 (11/88) 12-channel terminal equipments

Individually through the Electronic Bookshop: 20 CHF

G.233 (11/88) Recommendations concerning translating equipments

G.234 (10/76) Withdrawn (03/93)

8-channel terminal equipments

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G.235 (11/88) Withdrawn (03/93)

16-channel terminal equipments

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Utilization of groups, supergroups, etc.

G.241 (11/88) Pilots on groups, supergroups, etc.

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G.242 (11/88) Through-connection of groups, supergroups, etc.

Individually through the Electronic Bookshop: 20 CHF

G.243 (11/88) Protection of pilots and additional measuring frequencies at points where there is a through-connection

Individually through the Electronic Bookshop: 20 CHF

Individual characteristics of international carrier telephone systems on metallic lines

G.311 (11/88) Withdrawn (03/93)

General characteristics of systems providing 12 carrier telephone circuits on an open-wire pair

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G.312 (11/88) Withdrawn (03/93)

Intermediate repeaters for open-wire carrier systems conforming to Recommendation G.311

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G.313 (11/88) Withdrawn (03/93)

Open-wire lines for use with 12-channel carrier systems

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G.314 (10/76) Withdrawn (03/93)

General characteristics of systems providing eight carrier telephone circuits on an open-wire pair

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Carrier telephone systems on unloaded symmetric cable pairs, providing groups or supergroups

G.322 (11/88) General characteristics recommended for systems on symmetric pair cables

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G.323 (11/88) Withdrawn (03/93)

A typical transistorized system on symmetric cable pairs

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Individually through the Electronic Bookshop:

G.324 (10/76) Withdrawn (03/93)

General characteristics for valve-type systems on symmetric cable pairs

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Individually through the Electronic Bookshop:

G.325 (11/88) General characteristics recommended for systems providing 12 telephone carrier circuits on a symmetric cable pair [(12 + 12) systems]

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G.326 (11/88) Withdrawn (03/93)

Typical systems on symmetric cable pairs [(12 + 12)] systems

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G.327 (10/76) Withdrawn (03/93)

Valve-type systems offering 12 carrier telephone circuits on a symmetric cable pair [(12 + 12) systems]

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Carrier systems on 2.6/9.5 mm coaxial cable pairs

G.332 (11/88) 12 MHz systems on standardized 2.6/9.5 mm coaxial cable pairs

Individually through the Electronic Bookshop: 20 CHF

G.333 (11/88) 60 MHz systems on standardized 2.6/9.5 mm coaxial cable pairs

G.334 (11/88) 18 MHz systems on standardized 2.6/9.5 mm coaxial cable pairs

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G.337 (10/76) Withdrawn (03/93)

General characteristics of systems on 2.6/9.5 mm coaxial cable pairs

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G.338 (10/76) Withdrawn (03/93)

4 MHz valve-type systems on standardized 2.6/9.5 mm coaxial cable pairs

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Individually through the Electronic Bookshop:

G.339 (10/76) Withdrawn (03/93)

12 MHz valve-type systems on standardized 2.6/9.5 mm coaxial cable pairs

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Carrier systems on 1.2/4.4 mm coaxial cable pairs

G.341 (11/88) 1.3 MHz systems on standardized 1.2/4.4 mm coaxial cable pairs

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G.343 (11/88) 4 MHz systems on standardized 1.2/4.4 mm coaxial cable pairs

Individually through the Electronic Bookshop: 20 CHF

G.344 (11/88) 6 MHz systems on standardized 1.2/4.4 mm coaxial cable pairs

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G.345 (11/88) 12 MHz systems on standardized 1.2/4.4 mm coaxial cable pairs

Individually through the Electronic Bookshop: 20 CHF

G.346 (11/88) 18 MHz systems on standardized 1.2/4.4 mm coaxial cable pairs

Individually through the Electronic Bookshop: 20 CHF

Additional Recommendations on cable systems

G.352 (11/88) Interconnection of coaxial carrier systems of different designs

Individually through the Electronic Bookshop: 20 CHF

G.356 (11/80) Withdrawn (03/93)

(120 + 120) channel systems on a single coaxial pair

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G.361 (11/88) Withdrawn (03/93)

Systems providing three carrier telephone circuits on a pair of open-wire lines

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Individually through the Electronic Bookshop:

G.371 (11/88) Withdrawn (03/93)

FDM carrier systems for submarine cable

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Individually through the Electronic Bookshop:

General characteristics of international carrier telephone systems on radio-relay or satellite links and interconnection with metallic lines

General Recommendations

G.411 (11/88) Use of radio-relay systems for international telephone circuits

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G.412 (11/88) Withdrawn (03/93)

Terminal equipments of radio-relay systems forming part of a general telecommunication network

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Interconnection of radio-relay links with carrier systems on metallic lines

G.421 (11/88) Methods of interconnection

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G.422 (11/88) Interconnection at audio-frequencies

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G.423 (11/88) Interconnection at the baseband frequencies of frequency-division multiplex radiorelay systems

Hypothetical reference circuits

G.431 (11/88) Hypothetical reference circuits for frequency-division multiplex radio-relay systems

Individually through the Electronic Bookshop: 20 CHF

G.433 (06/64) Withdrawn (03/93)

Hypothetical reference circuit for trans-horizon radio-relay systems for telephony using frequencydivision multiplex

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Individually through the Electronic Bookshop:

G.434 (06/64) Withdrawn (03/93)

Hypothetical reference circuit for systems using analogue transmission in the fixed-satellite service

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Individually through the Electronic Bookshop:

Circuit noise

G.441 (11/88) Permissible circuit noise on frequency-division multiplex radio-relay systems

Individually through the Electronic Bookshop: 20 CHF

G.442 (11/88) Radio-relay system design objectives for noise at the far end of a hypothetical reference circuit with reference to telegraphy transmission

Individually through the Electronic Bookshop: 20 CHF

G.444 (06/64) Withdrawn (03/93)

Allowable noise power in the hypothetical reference circuit of trans-horizon radio-relay systems for telephony using frequency-division multiplex

Deleted after its content became technically out of date

Individually through the Electronic Bookshop:

G.445 (06/64) Withdrawn (03/93)

Allowable noise power in the hypothetical reference circuit for frequency-division multiplex telephony in the fixed-satellite service

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Individually through the Electronic Bookshop:

Coordination of radiotelephony and line telephony

Radiotelephone circuits

G.451 (11/88) Use of radio links in international telephone circuits

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G.453 (11/88) Withdrawn (03/93)

Improved transmission system for HF radiotelephone circuits

Deleted after its content became technically out of date

Individually through the Electronic Bookshop:

G.464 (11/88) Withdrawn (03/93)

Principles of the devices used to achieve privacy in radiotelephone conversations

Deleted after its content became technically out of date

Individually through the Electronic Bookshop:

Links with mobile stations

G.473 (11/88) Withdrawn (09/97)

Interconnection of a maritime mobile satellite system with the international automatic switched telephone service; transmission aspects

Withdrawn because it provided transmission planning information that was obsolete and no longer used

Individually through the Electronic Bookshop:

Supplements to Sections 2 to 5 of the Series G Recommendations

Suppl. 4 (12/72) Certain methods of avoiding the transmission of excessive noise between interconnected systems

Green Book Volume III.2, page 572

Suppl. 5 (10/84) Measurement of the load of telephone circuits under field conditions

Red Book Fascicle III.2, page 295

Suppl. 7 (12/72) Loss-frequency response of channel-translating equipment used in some countries for international circuits

Green Book Volume III.2, page 590

Suppl. 8 (12/72) Method proposed by the Belgian telephone administration for interconnection between coaxial and symmetric pair systems

Green Book Volume III.2, page 591

Suppl. 13 (10/76) Noise at the terminals of the battery supply

Orange Book Fascicle III.3, page 664

Suppl. 17 (10/84) Group-delay distortion performance of terminal equipment

Red Book Fascicle III.2, page 311

Suppl. 22 (10/84) Mathematical models of multiplex signals

Red Book Fascicle III.2, page 326

Suppl. 26 (10/84) Estimating the signal load margin of FDM wideband amplifier equipment and transmission systems

Red Book Fascicle III.2, page 344

Suppl. 27 (10/84) Interference from external sources

This Supplement is also published as G.900 series supplement in Red Book fascicle III.3

Red Book Fascicle III.2, page 346

Testing equipments

G.511 (02/98) Test methodology for Group 3 facsimile processing equipment in the Public Switched Telephone Network

This Recommendation was renumbered as ITU-T Rec. T.5 on 2002-02-15 without further modification

40pp E 13076 F 13077 S 13078 22 CHF

G.541 (10/76) Withdrawn (03/93)

Specification of factory lengths of loaded telecommunication cable

Deleted after its content became technically out of date

Individually through the Electronic Bookshop:

G.542 (10/76) Withdrawn (03/93)

Specification of loading coils for loaded telecommunication cables

Deleted after its content became technically out of date

Individually through the Electronic Bookshop:

G.543 (10/76) Withdrawn (03/93)

Specification for repeater sections of loaded telecommunication cable

Deleted after its content became technically out of date

 ${\it Individually\ through\ the\ Electronic\ Bookshop:}$

G.544 (10/76) Withdrawn (03/93)

Specifications for terminal equipment and intermediate repeater stations

Deleted after its content became technically out of date

Individually through the Electronic Bookshop:

Transmission media characteristics

General

G.601 (11/88) Terminology for cables

Individually through the Electronic Bookshop: 20 CHF

G.602 (11/88) Reliability and availability of analogue cable transmission systems and associated equipments

Individually through the Electronic Bookshop: 20 CHF

G.611 (11/88) Characteristics of symmetric cable pairs for analogue transmission

Individually through the Electronic Bookshop: 20 CHF

G.612 (11/88) Characteristics of symmetric cable pairs designed for the transmission of systems with bit rates of the order of 6 to 34 Mbit/s

Individually through the Electronic Bookshop: 20 CHF

G.613 (11/88) Characteristics of symmetric cable pairs usable wholly for the transmission of digital systems with a bit rate of up to 2 Mbits

Individually through the Electronic Bookshop: 20 CHF

G.614 (11/88) Characteristics of symmetric pair starquad cables designed earlier for analogue transmission systems and being used now for digital system transmission at bit rates of 6 to 34 Mbit/s

Individually through the Electronic Bookshop: 20 CHF

Land coaxial cable pairs

G.621 (11/88) Characteristics of 0.7/2.9 mm coaxial cable pairs

Individually through the Electronic Bookshop: 20 CHF

G.622 (11/88) Characteristics of 1.2/4.4 mm coaxial cable pairs

Individually through the Electronic Bookshop: 20 CHF

G.623 (11/88) Characteristics of 2.6/9.5 mm coaxial cable pairs

Submarine cables

G.631 (11/88) Types of submarine cable to be used for systems with line frequencies of less than about 45 MHz

Individually through the Electronic Bookshop: 20 CHF

G.641 (11/88) Withdrawn (03/93)

Waveguide diameters

Deleted after its content became technically out of date Individually through the Electronic Bookshop:

Optical fibre

G.650.1 (06/02) Definitions and test methods for linear, deterministic attributes of single-mode fibre and cable

Results from the subdivision of ITU-T Rec. G.650 (2000-10)

68pp E 22714 F 22715 S 22716 29 CHF

G.650.1 (2002) Amendment 1 (03/03)

11pp E 23877 F 23878 S 23879 9 CHF

G.650.2 (06/02) Definitions and test methods for statistical and non-linear attributes of single-mode fibre and cable

Results from the subdivision of ITU-T Rec. G.650 (2000-10)

56pp E 22691 F 22692 S 22693 29 CHF

G.650.2 (2002) Amendment 1 (03/03)

10pp E 23957 F 23958 S 23959 9 CHF

Optical fibre cables

G.651 (02/98) Characteristics of a $50/125 \mu m$ multimode graded index optical fibre cable

36pp E 13535 F 13536 S 13537 22 CHF

Optical fibre

G.652 (03/03) Characteristics of a single-mode optical fibre and cable

20pp E 23916 F 23917 S 23918 12 CHF

Optical fibre cables

G.653 (12/03) Characteristics of a dispersion-shifted single-mode optical fibre and cable

20pp E 25029 F 25030 S 25031 12 CHF

G.653 (10/00) Characteristics of a dispersion-shifted single-mode optical fibre cable

16pp E 19857 F 19858 S 19859 12 CHF

Optical fibre

G.654 (06/02) Characteristics of cut-off shifted single-mode optical fibre and cable

24pp E 22694 F 22695 S 22696 17 CHF

G.655 (03/03) Characteristics of a non-zero dispersion-shifted single-mode optical fibre and cable

19pp E 24155 F 24156 S 24157 12 CHF

Characteristics of optical components and subsystems

G.661 (10/98) Definition and test methods for the relevant generic parameters of optical amplifier devices and subsystems

16pp E 14732 F 14733 S 14734 12 CHF

G.662 (10/98) Generic characteristics of optical amplifier devices and subsystems

16pp E 14629 F 14630 S 14631 12 CHF

G.663 (04/00) Application related aspects of optical amplifier devices and subsystems

40pp E 19770 F 19771 S 19772 22 CHF

Optical fibre cables

G.663 (2000) Amendment 1 (01/03) Amendements to Appendix II

10pp E 23499 F 23500 S 23501 9 CHF

Characteristics of optical components and subsystems

G.664 (03/03) Optical safety procedures and requirements for optical transport systems

25pp E 24177 F 24178 S 24179 17 CHF

G.671 (06/02) Transmission characteristics of optical components and subsystems

50pp E 22587 F 22588 S 22589 22 CHF

G.691 (12/03) Optical interfaces for single channel STM-64 and other SDH systems with optical amplifiers

50pp E 25097 22 CHF

Characteristics of optical components and subsystems

G.692 (10/98) Optical interfaces for multichannel systems with optical amplifiers

Covering note, 07.01.2000: Corrigendum 1

40pp E 14418 F 14419 S 14420 22 CHF

G.692 (1998) Corrigendum 1 (01/00)

Characteristics of optical components and subsystems

G.692 (1998) Corrigendum 2 (06/02)

Characteristics of optical components and subsystems

G.693 (11/01) Optical interfaces for intra-office systems

24pp E 21878 F 21879 S 21880 17 CHF

G.693 (12/03) Optical interfaces for intra-office systems

26pp E 25100 F 25101 S 25102 17 CHF

G.694.1 (06/02) Spectral grids for WDM applications: DWDM frequency grid

14pp E 22348 F 22349 S 22350 12 CHF

G.694.2 (12/03) Spectral grids for WDM applications: CWDM wavelength grid

12pp E 24851 F 24851 S 24853 9 CHF

G.695 (02/04) Optical interfaces for coarse wavelength division multiplexing applications

42pp E 25326 22 CHF

Supplements to Section 6 of the Series G Recommendations

Suppl. 19 (10/84) Digital crosstalk measurement (method used by the Administrations of France, the Netherlands and Spain)

Red Book Fascicle III.2, page 326

Digital terminal equipments

General

G.700 (11/88) Withdrawn (03/93)

Framework of the series G.700, G.800 and G.900 Recommendations

Deleted after its content became technically out of date

G.701 (03/93) Vocabulary of digital transmission and multiplexing, and pulse code modulation (PCM) terms

37pp E 4350 F 4349 S 4351 20 CHF

G.702 (11/88) Digital hierarchy bit rates

Individually through the Electronic Bookshop: 20 CHF

General

G.703 (11/01) Physical/electrical characteristics of hierarchical digital interfaces

62pp E 22057 F 22058 S 22059 29 CHF

General

G.704 (10/98) Synchronous frame structures used at 1544, 6312, 2048, 8448 and 44 736 kbit/s hierarchical levels

44pp E 15440 F 15441 S 15442 22 CHF

G.705 (11/88) Withdrawn (10/96)

Characteristics required to terminate digital links on a digital exchange

The content of this Recommendation is now covered by ITU-T Q.500 series, and more specifically Q.554

G.705 (10/00) Characteristics of plesiochronous digital hierarchy (PDH) equipment functional blocks

204pp E 20964 F 20965 S 20966 73 CHF

G.706 (04/91) Frame alignment and cyclic redundancy check (CRC) procedures relating to basic frame structures defined in Recommendation G.704

16pp E 2101 F 2100 S 2102 13 CHF

General

G.707/Y.1322 (12/03) Network node interface for the synchronous digital hierarchy (SDH)

192pp E 25300 73 CHF

General

G.708 (03/93) Withdrawn (03/96)

Network node interface for the synchronous digital hierarchy

Merged with ITU-T G.707 in 1993

G.708 (07/99) Sub STM-0 network node interface for the synchronous digital hierarchy (SDH)

20pp E 16300 F 16301 S 16302 17 CHF

G.709 (03/93) Withdrawn (03/96)

Synchronous multiplexing structure

Merged with ITU-T G.707 in 1993

General

G.709/Y.1331 (03/03) Interfaces for the Optical Transport Network (OTN)

117pp E 25054 F 25055 S 25056 44 CHF

General

G.709/Y.1331 (2003) Amendment 1 (12/03)

To be published...

Coding of analogue signals by pulse code modulation

G.711 Appendix I (09/99) A high quality low-complexity algorithm for packet loss concealment with G.711

24pp E 17350 F 17351 S 17352 17 CHF

G.711 Appendix II (02/00) A comfort noise payload definition for ITU-T G.711 use in packet-based multimedia communication systems

16pp E 18278 F 18279 S 18280 12 CHF

G.711 (11/88) 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.

Individually through the Electronic Bookshop: 20 CHF

G.712 (11/01) Transmission performance characteristics of pulse code modulation channels

40pp E 22088 F 22089 S 22090 22 CHF

G.712 (11/88) Withdrawn (03/93)

Performance characteristics of PCM channels between 4-wire interfaces at voice frequencies

Deleted after its content became technically out of date

Individually through the Electronic Bookshop:

G.713 (11/88) Withdrawn (03/93)

Performance characteristics of PCM channels between 2-wire interfaces at voice frequencies

The content of this Recommendation is now covered by ITU-T G.712

Individually through the Electronic Bookshop:

G.714 (11/88) Withdrawn (03/93)

Separate performance characteristics for the encoding and decoding sides of PCM channels applicable to 4-wire voice-frequency interfaces

The content of this Recommendation is now covered by ITU-T G.712

Individually through the Electronic Bookshop:

G.715 (11/88) Withdrawn (03/93)

Separate performance characteristics for the encoding and decoding side of PCM channels applicable to 2-wire interfaces

The content of this Recommendation is now covered by ITU-T G.712

Individually through the Electronic Bookshop:

Coding of analogue signals by methods other than PCM

G.720 (07/95) Characterization of low-rate digital voice coder performance with non-voice signals

15pp E 6187 F 6186 S 6188 15 CHF

G.721 (11/88) Withdrawn (03/93)

32 kbit/s adaptive differential pulse code modulation (ADPCM)

The content of this Recommendation is now covered by ITU-T G.726

Individually through the Electronic Bookshop:

G.722 Annex A (03/93) Testing signal-to-total distortion ratio for 7 kHz audio-codecs at 64 kbit/s Recommendation G.722 connected back-to-back

3pp E 4117 F 4116 S 4118 8 CHF

G.722 Appendix II (03/87) 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.

16pp E 10036 F 10037 S 10038 52 CHF

Coding of analogue signals by methods other than PCM

G.722 (1988) Erratum 1 (05/03)

Coding of analogue signals by methods other than PCM

G.722 (11/88) 7 kHz audio-coding within 64 kbit/s

Corresponding ANSI-C code is available in the G722

module of the ITU-T G.191 Software Tools Library

Individually through the Electronic Bookshop: 34 CHF

G.722.1 (09/99) Coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss *Covering note, 17 November 2000.*

This Recommendation includes an electronic attachment containing the reference code (release 1.2) and the test vectors for ITU-T G.722.1 algorithm implementation verification. This release includes the corrections indicated in corrigendum 1 (11/2000)

1pp E 17335 F 17336 S 17337 142 CHF

G.722.1 Annex A (02/00) Packet format, capability identifiers and capability parameters

8pp E 18030 F 18031 S 18032 9 CHF

G.722.1 Annex B (11/00) Floating-point implementation for G.722.1

This annex includes an electronic attachment containing the reference code and the test vectors for ITU-T G.722.1/Annex B floating-point algorithm implementation verification

8pp E 22251 F 22252 S 22253 59 CHF

G.722.1 (1999) Corrigendum 1 (11/00)

Coding of analogue signals by methods other than PCM

G.722.2 (07/03) Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB)

To be published...

Coding of analogue signals by methods other than PCM

G.722.2 Annex A (01/02) Comfort noise aspects 18pp E 22293 F 22294 S 22295 12 CHF

G.722.2 Annex B (01/02) Source Controlled Rate operation

16pp E 22230 F 22231 S 22232 12 CHF

Coding of analogue signals by methods other than PCM

G.722.2 Annex B (2002) Erratum 1 (07/03)

G.722.2 Annex C (03/04) Fixed-point C-code E 25317 67 CHF

Coding of analogue signals by methods other than PCM

G.722.2 Annex D (01/02) Digital test sequences

This Annex includes an electronic attachment containing the digital test sequences for a bit-exact implementation of the G.722.2 adaptive multi-rate wideband (AMR-WB) speech transcoder, voice activity detection, comfort noise generation, and source controlled rate operation, version 5.3.0. Test sequences are freely available on the ITU publications website. They are also available for a fee on a CD-ROM from the ITU Sales department at sales@itu.int

14pp E 22179 F 22180 S 22181 59 CHF

Coding of analogue signals by methods other than PCM

G.722.2 Annex D (07/03) Digital test sequences

This Annex includes an electronic attachment containing the digital test sequences for a bit-exact implementation of the G.722.2 adaptive multi-rate wideband (AMR-WB) speech transcoder, voice activity detection, comfort noise generation, and source controlled rate operation, version 5.7.0. Test sequences are freely available on the ITU publications website. They are also available for a fee on a CD-ROM from the ITU Sales department at sales@itu.int

E 25194 F 25192 S 25193

Coding of analogue signals by methods other than PCM

G.722.2 Annex E (01/02) Frame structure

28pp E 22236 F 22237 S 22238 17 CHF

Coding of analogue signals by methods other than PCM

G.722.2 Annex E (2002) Corrigendum 1 (07/03)

Published as a covering note

Coding of analogue signals by methods other than PCM

G.722.2 Annex F (11/02) AMR-WB usage in H.245

12pp E 23273 F 23274 S 23275 9 CHF

Coding of analogue signals by methods other than PCM

G.722.2 Appendix I (02/02) Error concealment of erroneous or lost frames

18pp E 22227 F 22228 S 22229 12 CHF

G.722.2 Appendix I (2002) Amendment 1 (07/03)

Published as a covering note

1pp E 25221 F 25222 S 25223 9 CHF

Coding of analogue signals by methods other than PCM

G.723 Speech coders

G.723 (11/88) Withdrawn (03/93)

Extensions of Recommendation G.721 adaptive differential pulse code modulation to 24 and 40 kbit/s for digital circuit multiplication equipment application

The content of 1988 edition of ITU-T G.723 is now covered by ITU-T G.726

Individually through the Electronic Bookshop:

G.723.1 (03/96) 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.

32pp E 6839 F 6840 S 6841 17 CHF

G.723.1 Annex A (11/96) 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.

20pp E 10039 F 10040 S 10041 104 CHF

G.723.1 Annex B (11/96) 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.

8pp E 10042 F 10043 S 10044 134 CHF

G.723.1 Annex C (11/96) 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.

24pp E 10045 F 10046 S 10047 57 CHF

G.724 (11/88) Characteristics of a 48-channel low bit rate encoding primary multiplex operating at 1544 kbit/s

Individually through the Electronic Bookshop: 20 CHF

G.725 (11/88) System aspects for the use of the 7 kHz audio codec within 64 kbit/s

Individually through the Electronic Bookshop: 20 CHF

G.726 (12/90) 40, 32, 24, 16 kbit/s adaptive differential pulse code modulation (ADPCM)

Corresponding ANSI-C code is available in the G.726 module of the ITU-T G.191 Software Tools Library

57pp E 1951 F 1950 S 1952 21 CHF

G.726 Annex A (11/94) Extensions of Recommendation G.726 for use with uniform-quantized input and output

5pp E 5879 F 5878 S 5880 8 CHF

Coding of analogue signals by methods other than PCM

G.726 Annex B (07/03) Packet format, capability identifier and capability parameters for H.245 signalling

10pp E 24457 F 24458 S 24459 9 CHF

Coding of analogue signals by methods other than PCM

G.726 Appendix III (05/94) Comparison of ADPCM algorithms

This Appendix is published with the double number G.726 App. III and G.727 App. II

41pp E 5660 F 5658 S 5662 20 CHF

G.726 Appendix II Test vectors (03/91) 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).

E 10195 F 10196 S 10197 67 CHF

G.727 (12/90) 5-, 4-, 3- and 2-bit/sample embedded adaptive differential pulse code modulation (ADPCM)

Corresponding ANSI-C code is available in the G.727 module of the ITU-T G.191 Software Tools Library

55pp E 1975 F 1974 S 1976 21 CHF

G.727 Annex A (11/94) Extensions of Recommendation G.727 for use with uniform-quantized input and output

5pp E 5882 F 5881 S 5883 8 CHF

G.727 Appendix II (05/94) Comparison of ADPCM algorithms

This Appendix is published with the double number G.726 App. III and G.727 App. II

41pp E 5660 F 5658 S 5662 20 CHF

G.727 Appendix I Test vectors (03/91) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE's

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).

E 10198 F 10199 S 10200 115 CHF

G.728/G.Imp728 (09/92) Coding of speech at 16 kbit/s using low-delay code excited linear prediction

63pp E 2991 F 2984 S 2998 24 CHF

G.728 Annex G (11/94) 16 kbit/s fixed point specification

64pp E 6087 F 6086 S 6088 30 CHF

G.728 Annex G (1994) Corrigendum 1 (02/00)

G.728 Annex H (05/99) 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.

16pp E 17226 F 17227 S 17222 137 CHF

G.728 Annex I (05/99) Frame or packet loss concealment for the LD-CELP decoder

24pp E 16868 F 16869 S 16870 17 CHF

G.728 Annex J (09/99) 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.

38pp E 17560 F 17561 S 17562 147 CHF

G.728 Appendix II (11/95) Speech performance

8pp E 6766 F 6767 S 6768 9 CHF

G.728 Appendix I Software (07/95) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE's

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).

12pp E 10201 F 10202 S 10203 85 CHF

G.729 (03/96) 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.

40pp E 10204 F 10205 S 10206 92 CHF

G.729 Annex A (11/96) 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.

12pp E 10207 F 10208 S 10209 82 CHF

G.729 Annex B (10/96) A silence compression scheme for G.729 optimized for terminals conforming to Recommendation V.70

This Annex includes 1 electronic attachment containing source code and test sequences for implementation verification of the algorithm of the G.729 Silence compression scheme version 1.4, which reflects modifications given in Corrigendum 2 (02/2000).

E 13373 F 13375 S 13376 57 CHF

Coding of analogue signals by methods other than PCM

G.729 Annex B (1996) Corrigendum 1 (02/98)

To be published...

G.729 Annex B (1996) Corrigendum 2 (02/00)

This corrigendum concerns only the software; the resulting version 1.4 is included in the published ITU-T Recommendation G.729 Annex B (10/1996)

Coding of analogue signals by methods other than PCM

G.729 Annex B (1996) Corrigendum 3 (03/01)

G.729 Annex C+ (02/00) 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.

16pp E 17771 F 17772 S 17773 137 CHF

G.729 Annex C+ (2000) Corrigendum 1 (03/01)

G.729 Annex D (09/98) 6.4 kbit/s CS-ACELP speech coding algorithm

This Annex includes one electronic attachment containing version 1.3 of source C code for fixed point implementation of the G.729 6.4 kbit/s CS-ACELP speech coder, which reflects modifications given in Corrigendum 1 (02/2000).

14pp E 14247 F 14248 S 14249 52 CHF

Coding of analogue signals by methods other than PCM

G.729 Annex D (1998) Corrigendum 1 (02/00)

This corrigendum concerns only the software; the resulting version 1.3 is included in the published ITU-T Recommendation G.729 Annex D (09/1998)

Coding of analogue signals by methods other than PCM

G.729 Annex E (09/98) 11.8 kbit/s CS-ACELP speech coding algorithm

This Annex includes one electronic attachment containing version 1.3 of source C code and test vectors for fixed point implementation of the G.729 11.8 kbit/s CS-ACELP speech coder, which reflects modifications given in Corrigendum 1 (02/2000).

28pp E 14448 F 14449 S 14450 57 CHF

Coding of analogue signals by methods other than PCM

G.729 Annex E (1998) Corrigendum 1 (02/00)

This corrigendum concerns only the software; the resulting version 1.3 is included in the published ITU-T Recommendation G.729 Annex E (09/1998)

Coding of analogue signals by methods other than PCM

G.729 Annex F (02/00) 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.

8pp E 17831 F 17832 S 17833 134 CHF

G.729 Annex F (2000) Corrigendum 1 (03/01)

G.729 Annex G (02/00) 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.

16pp E 17949 F 17950 S 17951 137 CHF

G.729 Annex G (2000) Corrigendum 1 (03/01)

G.729 Annex H (02/00) 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.

E 17838 F 17839 S 17840 134 CHF

G.729 Annex I (02/00) 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.

16pp E 17828 F 17829 S 17830 137 CHF

G.729 Annex I (2000) Corrigendum 1 (03/01)

G.729 Appendix I (06/01) Appendix I: External synchronous reset performance for G.729 codecs in systems using external VAD/DTX/CNG

12pp E 21746 F 21747 S 21748 9 CHF

G.729 Annex C Encl. (09/98) 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.

E 14244 F 14245 S 14246 49 CHF

Principal characteristics of primary multiplex equipment

G.731 (11/88) Primary PCM multiplex equipment for voice frequencies

Individually through the Electronic Bookshop: 20 CHF

G.732 (11/88) Characteristics of primary PCM multiplex equipment operating at 2048 kbit/s

Individually through the Electronic Bookshop: 20 CHF

G.733 (11/88) Characteristics of primary PCM multiplex equipment operating at 1544 kbit/s

Individually through the Electronic Bookshop: 20 CHF

G.734 (11/88) Characteristics of synchronous digital multiplex equipment operating at 1544 kbit/s

Individually through the Electronic Bookshop: 20 CHF

G.735 (11/88) 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

Individually through the Electronic Bookshop: 20 CHF

G.736 (03/93) Characteristics of a synchronous digital multiplex equipment operating at 2048 kbit/s

6pp E 4293 F 4292 S 4294 8 CHF

G.737 (11/88) Characteristics of an external access equipment operating at 2048 kbit/s offering synchronous digital access at 384 kbit/s and/or 64 kbit/s

Individually through the Electronic Bookshop: 20 CHF

G.738 (11/88) 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

Individually through the Electronic Bookshop: 20 CHF

G.739 (11/88) Characteristics of an external access equipment operating at 2048 kbit/s offering synchronous digital access at 320 kbit/s and/or 64 kbit/s

Individually through the Electronic Bookshop: 20 CHF

Principal characteristics of second order multiplex equipment

G.741 (11/88) General considerations on second order multiplex equipments

Individually through the Electronic Bookshop: 20 CHF

G.742 (11/88) Second order digital multiplex equipment operating at 8448 kbit/s and using positive justification

Individually through the Electronic Bookshop: 20 CHF

G.743 (11/88) Second order digital multiplex equipment operating at 6312 kbit/s and using positive justification

Individually through the Electronic Bookshop: 20 CHF

G.744 (11/88) Second order PCM multiplex equipment operating at 8448 kbit/s

Individually through the Electronic Bookshop: 20 CHF

G.745 (11/88) Second order digital multiplex equipment operating at 8448 kbit/s and using positive/zero/negative justification

Individually through the Electronic Bookshop: 20 CHF

G.746 (11/88) Characteristics of second order PCM multiplex equipment operating at 6312 kbit/s

Individually through the Electronic Bookshop: 20 CHF

G.747 (11/88) Second order digital multiplex equipment operating at 6312 kbit/s and multiplexing three tributaries at 2048 kbit/s

Individually through the Electronic Bookshop: 20 CHF

Principal characteristics of higher order multiplex equipment

G.751 (11/88) 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 (11/88) Characteristics of digital multiplex equipments based on a second order bit rate of 6312 kbit/s and using positive justification

Individually through the Electronic Bookshop: 20 CHF

G.753 (11/88) Third order digital multiplex equipment operating at 34 368 kbit/s and using positive/zero/negative justification

Individually through the Electronic Bookshop: 20 CHF

G.754 (11/88) Fourth order digital multiplex equipment operating at 139 264 kbit/s and using positive/zero/negative justification

Individually through the Electronic Bookshop: 20 CHF

G.755 (11/88) Digital multiplex equipment operating at 139 264 kbit/s and multiplexing three tributaries at 44 736 kbit/s

Individually through the Electronic Bookshop: 20 CHF

Principal characteristics of transcoder and digital multiplication equipment

G.761 (11/88) General characteristics of a 60-channel transcoder equipment

Individually through the Electronic Bookshop: 20 CHF

G.762 (11/88) General characteristics of a 48-channel transcoder equipment

Individually through the Electronic Bookshop: 20 CHF

G.763 (10/98) 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

176pp E 16891 F 16892 S 16893 128 CHF

G.763 Appendix I (10/98) Additional requirements

This appendix includes one diskette containing information on the additional requirements.

To be published...

G.763 Erratum (12/00) Erratum to Recommendation ITU-T G.763 (10/98)

G.764 (12/90) Voice packetization – Packetized voice protocols

21pp E 1984 F 1983 S 1985 13 CHF

G.764 Appendix I (11/95) Packetization guide

20pp E 6805 F 6806 S 6807 17 CHF

G.765 (09/92) Packet circuit multiplication equipment

111pp E 3195 F 3194 S 3196 38 CHF

G.765 Appendix I (11/95) A guide to PCME

36pp E 6901 F 6902 S 6903 22 CHF

G.766 (11/96) Facsimile demodulation/remodulation for digital circuit multiplication equipment

108pp E 10821 F 10822 S 10823 44 CHF

G.767 (10/98) Digital circuit multiplication equipment using 16 kbit/s LD-CELP, digital speech interpolation and facsimile demodulation/remodulation

32pp E 14434 F 14435 S 14436 17 CHF

G.768 (03/01) Digital circuit multiplication equipment using 8 kbit/s CS-ACELP

34pp E 20820 F 20822 S 20823 17 CHF

G.769/Y.1242 (08/02) Circuit Multiplication Equipment optimized for IP-based networks

32pp E 23167 F 23168 S 23169 17 CHF

Operations, administration and maintenance features of transmission equipment

G.771 (11/88) Withdrawn (03/93)

Q-interfaces and associated protocols for transmission equipment in the TMN

Deleted after its content became technically out of date

G.772 (03/93) Protected monitoring points provided on digital transmission systems

5pp E 4111 F 4110 S 4112 8 CHF

G.773 (03/93) Protocol suites for Q-interfaces for management of transmission systems

17pp E 4153 F 4152 S 4154 15 CHF

G.774 (02/01) Synchronous digital hierarchy (SDH) – Management information model for the network element view

108pp E 21119 F 21120 S 21121 44 CHF

G.774.1 (02/01) Synchronous digital hierarchy (SDH) – Bidirectional performance monitoring for the network element view

40pp E 20838 F 20839 S 20840 22 CHF

G.774.2 (02/01) Synchronous digital hierarchy (SDH) – Configuration of the payload structure for the network element view

62pp E 21064 F 21065 S 21066 29 CHF

G.774.3 (02/01) Synchronous digital hierarchy (SDH) management of multiplex-section protection for the network element view

48pp E 21540 F 21541 S 21542 34 CHF

G.774.4 (02/01) Synchronous digital hierarchy (SDH) – Management of the subnetwork connection protection for the network element view

56pp E 21639 F 21640 S 21641 29 CHF

G.774.5 (02/01) Synchronous digital hierarchy (SDH) management of connection supervision functionality (HCS/LCS) for the network element view

24pp E 20841 F 20842 S 20843 17 CHF

G.774.6 (02/01) Synchronous Digital Hierarchy (SDH) – Unidirectional performance monitoring for the network element view

56pp E 20882 F 20883 S 20884 22 CHF

G.774.7 (02/01) Synchronous digital hierarchy (SDH) – Management of lower order path trace and interface labelling for the network element view

18pp E 20844 F 20845 S 20846 12 CHF

G.774.8 (02/01) Synchronous digital hierarchy (SDH) – Management of radio-relay systems for the network element view

40pp E 20853 F 20854 S 20855 22 CHF

G.774.9 (02/01) Synchronous digital hierarchy (SDH) – Configuration of linear multiplex-section protection for the network element view

20pp E 20850 F 20851 S 20852 17 CHF

G.774.10 (02/01) Synchronous Digital Hierarchy (SDH) Multiplex Section (MS) shared protection ring management for the network element view

42pp E 20946 F 20947 S 20948 22 CHF

G.775 (10/98) Loss of Signal (LOS), Alarm Indication Signal (AIS) and Remote Defect Indication (RDI) defect detection and clearance criteria for PDH signals

12pp E 14317 F 14318 S 14319 12 CHF

G.776.1 (10/98) Managed objects for signal processing network elements

This Recommendation includes one diskette containing the information model of Signal Processing Network Elements (SPNE).

12pp E 14495 F 14496 S 14497 49 CHF

G.776.3 (04/00) ADPCM DCME configuration map report

28pp E 18595 F 18596 S 18597 17 CHF

Principal characteristics of multiplexing equipment for the synchronous digital hierarchy

G.780 (07/99) Vocabulary of terms for synchronous digital hierarchy (SDH) networks and equipment

32pp E 16506 F 16507 S 16508 17 CHF

G.781 (01/94) Withdrawn (04/97)

Structure of Recommendations on equipment for the synchronous digital hierarchy (SDH)

Merged with ITU-T G.783 in 1997

2pp E 4632 F 4631 S 4633 8 CHF

G.781 (07/99) Synchronization layer functions

124pp E 16613 F 16614 S 16615 49 CHF

G.782 (01/94) Withdrawn (04/97)

Types and general characteristics of synchronous digital hierarchy (SDH) equipment

Merged with ITU-T G.783 in 1997

29pp E 5550 F 5549 S 5551 15 CHF

G.783 (10/00) Characteristics of synchronous digital hierarchy (SDH) equipment functional blocks

274pp E 20440 F 20441 S 20442 96 CHF

Principal characteristics of multiplexing equipment for the synchronous digital hierarchy

G.783 (2000) Amendment 1 (06/02) Amendment 1

20pp E 23064 F 23065 S 23066 12 CHF

G.783 (2000) Corrigendum 2 (03/03)

Principal characteristics of multiplexing equipment for the synchronous digital hierarchy

G.784 (07/99) Synchronous digital hierarchy (SDH) management

56pp E 16534 F 16535 S 16536 29 CHF

G.785 (11/96) Characteristics of a flexible multiplexer in a synchronous digital hierarchy environment

24pp E 11681 F 11682 S 11683 17 CHF

Other terminal equipment

G.791 (11/88) General considerations on transmultiplexing equipments

Individually through the Electronic Bookshop: 20 CHF

G.792 (11/88) Characteristics common to all transmultiplexing equipments

Individually through the Electronic Bookshop: 20 CHF

G.793 (11/88) Characteristics of 60-channel transmultiplexing equipments

Individually through the Electronic Bookshop: 20 CHF

G.794 (11/88) Characteristics of 24-channel transmultiplexing equipments

Individually through the Electronic Bookshop: 20 CHF

G.795 (11/88) Characteristics of codecs for FDM assemblies

Individually through the Electronic Bookshop: 20 CHF

G.796 (09/92) Characteristics of a 64 kbit/s crossconnect equipment with 2048 kbit/s access ports

10pp E 2992 F 2985 S 2999 11 CHF

G.796 (2000) Corrigendum 1 (10/98)

G.797 (03/96) Characteristics of a flexible multiplexer in a plesiochronous digital hierarchy environment

48pp E 7302 F 7303 S 7304 22 CHF

G.798 (01/02) Characteristics of optical transport network hierarchy equipment functional blocks

244pp E 22889 F 22890 S 22891 96 CHF

G.798 (2002) Amendment 1 (06/02)

22pp E 22688 F 22689 S 22690 17 CHF

Supplements to Section 7 of the Series G Recommendations

Suppl. 28 (10/84) Application of transmultiplexers, FDM codecs, data-in-voice (DIV) systems and data-over-voice (DOV) systems during the transition from an analogue to a digital network

Red Book Fascicle III.3, page 397

Suppl. 31 (11/88) Withdrawn (04/00)

Status of work of presently considered digital circuit multiplication equipment (DCME) documents

This Supplement was withdrawn because its was no longer relevant

Digital networks

General aspects

G.801 (11/88) Digital transmission models

Individually through the Electronic Bookshop: 20 CHF

G.802 (11/88) Interworking between networks based on different digital hierarchies and speech encoding laws

Individually through the Electronic Bookshop: 20 CHF

G.803 (03/00) Architecture of transport networks based on the synchronous digital hierarchy (SDH)

56pp E 19599 F 19600 S 19601 29 CHF

G.804 (02/98) ATM cell mapping into Plesiochronous Digital Hierarchy (PDH)

20pp E 13308 F 13309 S 13310 17 CHF

G.805 (03/00) Generic functional architecture of transport networks

60pp E 20094 F 20095 S 20096 29 CHF

G.806 (02/04) Characteristics of transport equipment – Description methodology and generic functionality

To be published...

G.807/Y.1302 (07/01) Requirements for automatic switched transport networks (ASTN)

22pp E 20720 F 20721 S 20722 17 CHF

General

G.808.1 (12/03) Generic protection switching – Linear trail and sub-network protection

To be published...

General aspects

G.809 (03/03) Functional architecture of connectionless layer networks

29pp E 24228 F 24229 S 24230 17 CHF

Design objectives for digital networks

G.810 (08/96) Definitions and terminology for synchronization networks

24pp E 9794 F 9795 S 9796 17 CHF

G.810 (1996) Corrigendum 1 (11/01)

G.811 (09/97) Timing characteristics of primary reference clocks

8pp E 12242 F 12243 S 12244 9 CHF

G.812 (06/98) Timing requirements of slave clocks suitable for use as node clocks in synchronization networks

40pp E 13565 F 13566 S 13567 22 CHF

G.813 (03/03) Timing characteristics of SDH equipment slave clocks (SEC)

34pp E 24044 F 24045 S 24046 17 CHF

G.821 (12/02) 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

18pp E 23355 F 23356 S 23357 12 CHF

G.822 (11/88) Controlled slip rate objectives on an international digital connection

Individually through the Electronic Bookshop: 20 CHF

G.823 (03/00) The control of jitter and wander within digital networks which are based on the 2048 kbit/s hierarchy

48pp E 19758 F 19759 S 19760 22 CHF

G.824 (03/00) The control of jitter and wander within digital networks which are based on the 1544 kbit/s hierarchy

24pp E 19397 F 19398 S 19399 17 CHF

G.825 (03/00) The control of jitter and wander within digital networks which are based on the synchronous digital hierarchy (SDH)

20pp E 19273 F 19274 S 19275 12 CHF

G.825 Erratum 1 (08/01) Erratum to Recommendation ITU-T G.825 (03/00)

G.826 (12/02) End-to-end error performance parameters and objectives for international, constant bit-rate digital paths and connections

34pp E 23371 F 23372 S 23373 17 CHF

G.827 (09/03) Availability performance parameters and objectives for end-to-end international constant bit-rate digital paths

26pp E 25076 17 CHF

G.827.1 (11/00) Withdrawn (01/04)

Availability performance objectives for end-to-end international constant bit-rate digital paths at or above the primary rate

Deleted on 13/01/2004 after the incorporation of its content in G.827 (09/2003)

18pp E 19866 F 19867 S 19868 12 CHF

G.828 (03/00) Error performance parameters and objectives for international, constant bit rate synchronous digital paths

24pp E 19498 F 19499 S 19500 17 CHF

G.828 (2000) Corrigendum 1 (07/01)

G.829 (12/02) Error performance events for SDH multiplex and regenerator sections

16pp E 23338 F 23339 S 23340 12 CHF

G.831 (03/00) Management capabilities of transport networks based on the synchronous digital hierarchy (SDH)

16pp E 19527 F 19528 S 19529 12 CHF

G.832 (10/98) Transport of SDH elements on PDH networks – Frame and multiplexing structures

24pp E 14607 F 14608 S 14609 17 CHF

G.841 (10/98) Types and characteristics of SDH network protection architectures

140pp E 15794 F 15795 S 15796 55 CHF

G.841 (1998) Corrigendum 1 (08/02)

G.842 (04/97) Interworking of SDH network protection architectures

36pp E 12034 F 12035 S 12036 22 CHF

G.851.1 (11/96) Management of the transport network – Application of the RM-ODP framework

72pp E 11054 F 11055 S 11056 34 CHF

G.852.1 (11/96) Enterprise viewpoint for simple subnetwork connection management

16pp E 11684 F 11685 S 11686 12 CHF

G.852.2 (03/99) Enterprise viewpoint description of transport network resource model

36pp E 15928 F 15929 S 15930 22 CHF

G.852.3 (03/99) Enterprise viewpoint for topology management

20pp E 15736 F 15740 S 15741 17 CHF

G.852.6 (03/99) Enterprise viewpoint for trail management

16pp E 15691 F 15694 S 15695 12 CHF

G.852.8 (03/99) Enterprise viewpoint for pre-provisioned adaptation management

12pp E 14296 F 14297 S 14298 12 CHF

G.852.10 (03/99) Enterprise viewpoint for pre-provisioned link connection management					G.854.8 (03/99) Computational viewpoint for pre-provisioned adaptation management				
12pp	E 15696	F 15697	S 15698	12 CHF	32pp	E 15877	F 15878	S 15879	17 CHF
G.852.12 (0 pre-provi)3/99) En sioned link				G.854.10 (03/99) Computational viewpoint for pre-provisioned link connection management				
16pp	E 15699	F 15700	S 15701	12 CHF	20pp	E 15754	F 15755	S 15756	17 CHF
G.852.16 (0 pre-provi	01/01) En sioned rout							al viewpoint	
14pp	E 20413	F 20414	S 20415	12 CHF	pre-prov	isioned link	manageme	ent	
G.853.1 (03/99) Common elements of the information viewpoint for the management of a transport network						E 15763 01/01) Co isioned rout		S 15765	12 CHF for
60pp	E 15961	F 15962	S 15963	29 CHF	18pp	E 20473	F 20474	S 20475	12 CHF
G.853.2 (11 managem 20pp	1/96) Sub nent informa E 11775			17 CHF	G.855.1 (03/99) GDMO engineering viewpoint for the generic network level model				
G.853.3 (03	3/99) Info	rmation vi	ewpoint for to	opology	30pp	E 15934	F 15935	S 15936	17 CHF
managem 16pp	E 15778	F 15779	S 15780	12 CHF	G.861 (08/96) Principles and guidelines for the integration of satellite and radio systems in SDH transport networks				
G.853.6 (03 managem		rmation vi	ewpoint for t	rail	20pp	E 10824	F 10825	S 10826	17 CHF
12pp	E 15702	F 15703	S 15704	12 CHF				ork for optic	al
G.853.8 (03/99) Information viewpoint for pre-provisioned adaptation management					transport network Recommendations		12 CHE		
20pp	E 15883	F 15884	S 15885	17 CHF	16pp	E 19928	F 19929	S 19930	12 CHF
G.853.10 (03/99) Information viewpoint for pre-provisioned link connection management					G.872 (11/ networks	,	tecture of o	ptical transp	oort
12pp		F 15890	S 15891	12 CHF	72pp	E 22537	F 22538	S 22539	34 CHF
`	3/99) Inf sioned link		viewpoint for		`	01) Amendr	`	,	
12pp	E 15880	F 15881	S 15882	12 CHF	9рр	E 25127	F 25128	S 25129	9 CHF
G.853.16 (01/01) Information viewpoint for pre-provisioned route discovery					G.873.1 (03/03) Optical Transport Network (OTN): Linear protection				
17pp		F 20417	S 20418	17 CHF	23pp	E 24180	F 24181	S 24182	17 CHF
G.854.1 (11/96) Computational interfaces for basic transport network model					G.873.1 E	rratum 1 (1	0/03)		
24pp	E 11043	F 11044	S 11045	17 CHF		01) Manag		ects of the o	ptical
G.854.3 (03/99) Computational viewpoint for topology management					64pp	E 22280	F 22281	S 22282	29 CHF
36pp	E 15751	F 15752	S 15753	22 CHF	G.874.1 (0	1/02) Opti	ical transpo	ort network (OTN):
G.854.6 (03/99) Computational viewpoint for trail management					Protocol-neutral management information model for the network element view			nodel for	
32pp	E 15760	F 15761	S 15762	17 CHF	67pp	E 22338	F 22339	S 22340	29 CHF

Digital sections and digital line system

General

G.901 (11/88) General considerations on digital sections and digital line systems

Individually through the Electronic Bookshop: 20 CHF

G.902 (11/95) Framework Recommendation on functional access networks (AN) – Architecture and functions, access types, management and service node aspects

44pp E 9545 F 9546 S 9547 22 CHF

Parameters for optical fibre cable systems

G.911 (04/97) Parameters and calculation methodologies for reliability and availability of fibre optic systems

36pp E 12157 F 12158 S 12159 22 CHF

Digital sections at hierarchical bit rates based on a bit rate of 2048 kbit/s

G.921 (11/88) Digital sections based on the 2048 kbit/s hierarchy

Individually through the Electronic Bookshop: 20 CHF

Digital line transmission systems on cable at nonhierarchical bit rates

G.931 (11/88) Withdrawn (05/02)

Digital line sections at 3152 kbit/s

This Recommenation was deleted since no more significant content remained after the removal of the material in its Annex A to new Appendix III/G.703 '3152 kbit/s interface specification for use in North America'.

Individually through the Electronic Bookshop: 20 CHF

Digital line systems provided by FDM transmission bearers

G.941 (11/88) Digital line systems provided by FDM transmission bearers

Individually through the Electronic Bookshop: 20 CHF

Digital line systems

G.950 (11/88) General considerations on digital line systems

Individually through the Electronic Bookshop: 20 CHF

G.951 (11/88) Digital line systems based on the 1544 kbit/s hierarchy on symmetric pair cables

Individually through the Electronic Bookshop: 20 CHF

G.952 (11/88) Digital line systems based on the 2048 kbit/s hierarchy on symmetric pair cables

Individually through the Electronic Bookshop: 20 CHF

G.953 (11/88) Digital line systems based on the 1544 kbit/s hierarchy on coaxial pair cables

Individually through the Electronic Bookshop: 20 CHF

G.954 (11/88) Digital line systems based on the 2048 kbit/s hierarchy on coaxial pair cables

Individually through the Electronic Bookshop: 20 CHF

G.955 (11/88) Withdrawn (03/93)

Digital line systems based on the 1544 kbit/s and the 2048 kbit/s hierarchy on optical fibre cables

Deleted after its content became technically out of date Individually through the Electronic Bookshop:

G.955 (11/96) Digital line systems based on the 1544 kbit/s and the 2048 kbit/s hierarchy on optical fibre cables

24pp E 11701 F 11702 S 11703 17 CHF

G.956 (11/88) Withdrawn (03/93)

Digital line systems based on the 2048 kbit/s hierarchy on optical fibre cables

The content of this Recommendation is now covered by ITU-T G.955

Individually through the Electronic Bookshop:

G.957 (07/99) Optical interfaces for equipments and systems relating to the synchronous digital hierarchy

6pp E 16537 F 16538 S 16539 22 CHF

G.957 (1999) Amendment 1 (12/03)

10pp E 24842 F 24843 S 24844 9 CHF

G.959.1 (12/03) Optical transport network physical layer interfaces

52pp E 24895 F 24896 S 24897 22 CHF

Digital section and digital transmission systems for customer access to ISDN

G.960 (03/93) Access digital section for ISDN basic rate access

32pp E 3914 F 3913 S 3915 20 CHF

G.961 (03/93) Digital transmission system on metallic local lines for ISDN basic rate access

Covering note, 1st August 2000: Corrigendum 1

139pp E 4102 F 4101 S 4103 42 CHF

G.961 erratum (08/00)

G.962 (03/93) Access digital section for ISDN primary rate at 2048 kbit/s

51pp E 3841 F 3840 S 3842 24 CHF

G.962 (1993) Amendment 1 (06/97) Maintenance channel

12pp E 11916 F 11917 S 11918 12 CHF

G.963 (03/93) Access digital section for ISDN primary rate at 1544 kbit/s

29pp E 3708 F 3707 S 3709 15 CHF

G.964 (03/01) V-interfaces at the digital local exchange (LE) – V5.1 interface (based on 2048 kbit/s) for the support of access network (AN)

203pp E 21555 F 21556 S 21557 73 CHF

G.965 (03/01) V-interfaces at the digital local exchange (LE) – V5.2 interface (based on 2048 kbit/s) for the support of access network (AN)

196pp E 21615 F 21616 S 21617 73 CHF

G.966 (02/99) Access digital section for B-ISDN 28pp E 16003 F 16004 S 16005 17 CHF

G.967 V-interfaces at the service node (SN)

G.967.1 (06/98) 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.

192pp E 14280 F 14281 S 14282 12 CHF

G.967.2 (02/99) VB5.2 reference point specification

This Recommendation includes one diskette containing the SDL process diagrams corresponding to the VB5.2 reference point.

E 15920 F 15921 S 15922 101 CHF

G.967.3 (03/00) Protocol implementation conformance statements for interfaces at VB5 reference points

8pp E 19400 F 19401 S 19402 9 CHF

Optical fibre submarine cable systems

G.971 (04/00) General features of optical fibre submarine cable systems

20pp E 19686 F 19687 S 19688 12 CHF

G.972 (10/00) Definition of terms relevant to optical fibre submarine cable systems

24pp E 19906 F 19907 S 19908 17 CHF

G.973 (11/96) Characteristics of repeaterless optical fibre submarine cable systems

24pp E 11723 F 11724 S 11725 17 CHF

G.973 (12/03) Characteristics of repeaterless optical fibre submarine cable systems

To be published...

G.974 (03/93) Characteristics of regenerative optical fibre submarine cable systems

15pp E 4213 F 4212 S 4214 15 CHF

G.975 (10/00) Forward error correction for submarine systems

24pp E 20246 F 20247 S 20248 17 CHF

G.975.1 (02/04) Forward error correction for high bit rate DWDM submarine systems

To be published...

G.976 (10/00) Test methods applicable to optical fibre submarine cable systems

41pp E 19925 F 19926 S 19927 22 CHF

G.977 (03/04) Characteristics of optically amplified optical fibre submarine cable systems

To be published...

Access networks

G.977 (04/00) Characteristics of optically amplified optical submarine cable systems

40pp E 19689 F 19690 S 19691 22 CHF

Optical line systems for local and access networks

G.981 (01/94) PDH optical line systems for the local network

8pp E 5384 F 5383 S 5385 11 CHF

G.982 (11/96) Optical access networks to support services up to the ISDN primary rate or equivalent bit rates

28pp E 11714 F 11715 S 11716 17 CHF

G.983.1 (10/98) Broadband optical access systems based on Passive Optical Networks (PON)

116pp E 15705 F 15706 S 15707 49 CHF

G.983.1 (1998) Amendment 1 (11/01)

Amendment 1

20pp E 22001 F 22002 S 22003 12 CHF

G.983.1 (1998) Amendment 2 (03/03)

16pp E 24022 F 24023 S 24024 12 CHF

G.983.1 Corrigendum 1 (07/99)

G.983.1 (1998) Corrigendum 1 (1999) /Erratum 1 (03/02)

G.983.2 (06/02) ONT management and control interface specification for B-PON

192pp E 23384 F 23385 S 23386 73 CHF

G.983.2 (2002) Amendment 1 (03/03)

13pp E 23971 F 23972 S 23973 12 CHF

G.983.3 (03/01) A broadband optical access system with increased service capability by wavelength allocation

62pp E 21023 F 21024 S 21025 29 CHF

G.983.3 (2001) Amendment 1 (06/02)

16pp E 22359 F 22360 S 22361 12 CHF

G.983.4 (11/01) A broadband optical access system with increased service capability using dynamic bandwidth assignment

88pp E 22304 F 22305 S 22306 39 CHF

G.983.4 (2001) Amendment 1 (12/03)

New Annex A – Performance monitoring parameters

12pp E 24854 F 24855 S 24856 9 CHF

G.983.5 (01/02) A broadband optical access system with enhanced survivability

59pp E 22639 F 22640 S 22641 29 CHF

G.983.6 (06/02) ONT management and control interface specifications for B-PON system with protection features

24pp E 22720 F 22721 S 22722 17 CHF

G.983.7 (11/01) ONT management and control interface specification for dynamic bandwidth assignment (DBA) B-PON system

28pp E 21417 F 21418 S 21419 17 CHF

G.983.8 (03/03) B-PON OMCI support for IP, ISDN, video, VLAN tagging, VC cross-connections and other select functions

66pp E 24304 F 24305 S 24306 29 CHF

G.984.1 (03/03) Gigabit-capable Passive Optical Networks (GPON): General characteristics

21pp E 24152 F 24153 S 24154 17 CHF

G.984.2 (03/03) Gigabit-capable Passive Optical Networks (GPON): Physical Media Dependent (PMD) layer specification

36pp E 24424 F 24425 S 24426 22 CHF

G.984.3 (02/04) Gigabit-capable Passive Optical Networks (GPON): Transmission Convergence Layer specification

To be published...

G.985 (03/03) 100 Mbit/s point-to-point Ethernet based optical access system

20pp E 24118 F 24119 S 24120 12 CHF

G.989.1 (02/01) Phoneline networking transceivers – Foundation

22pp E 20800 F 20801 S 20802 17 CHF

G.989.2 (11/01) Phoneline networking transceivers – Payload format and link layer requirements

65pp E 22065 F 22066 S 22067 29 CHF

G.989.3 (03/03) Phoneline networking transceivers – Isolation function

19pp E 24370 F 24371 S 24372 12 CHF

G.991.1 (10/98) High bit rate Digital Subscriber Line (HDSL) transceivers

168pp E 16084 F 16085 S 16086 73 CHF

G.991.2 (12/03) Single-pair high-speed digital subscriber line (SHDSL) transceivers

To be published...

G.992.1 (07/99) Asymmetrical digital subscriber line (ADSL) transceivers

252pp E 17821 F 17822 S 17823 96 CHF

G.992.1 (1999) Amendment 1 (03/03) Revised Annex C, new Annex I and new Appendix V

This amendment includes the changes introduced by G.992.1 (1999) Corrigendum 2

110pp E 25023 F 25024 S 25025 44 CHF

G.992.1 (1999) Amendment 1 Corrigendum 1 (12/03)

To be published...

G.992.1 Annex H (10/00) Specific requirements for a synchronized symmetrical DSL (SSDSL) system operating in the same cable binder as ISDN as defined in G.961 Appendix III

46pp E 19980 F 19981 S 19982 22 CHF

G.992.1 (1999) Corrigendum 1 (11/01)

G.992.1 (1999) Corrigendum 2 (07/02)

The changes introduced by this corrigendum are included in G.992.1 (1999) Amendment 1

G.992.2 (07/99) Splitterless asymmetric digital subscriber line (ADSL) transceivers

176pp E 17666 F 17667 S 17668 73 CHF

G.992.2 (1999) Amendment 1 (03/03) Revised Annex C

This Amendement includes the modifications of Corrigendum 1 (2002)

50pp E 24183 F 24184 S 24185 22 CHF

G.992.2 (1999) Amendment 2 (10/03) New Appendix IV: Example overlapped PSD masks for use in a TCM-ISDN crosstalk environment

11pp E 24942 F 24943 S 24944 9 CHF

G.992.2 (1999) Corrigendum 1 (07/02)

The content of this corrigendum has been incorporated in Amendement 1 (2003)

G.992.3 (07/02) Asymmetric digital subscriber line transceivers 2 (ADSL2)

This Recommendation includes the changes introduced by Amendment 1 (2003)

311pp E 24505 F 24506 S 24507 124 CHF

G.992.3 (2002) Amendment 1 (05/03)

This amendment is not published since its content has been directly incorporated in G.992.3 (07/2002)

To be published...

G.992.3 (2002) Amendment 1 Corrigendum 1 (02/04)

To be published...

G.992.3 (2002) Corrigendum 1 (12/03)

G.992.3 (2002) Corrigendum 2 (02/04)

To be published...

G.992.4 (07/02) Splitterless asymmetric digital subscriber line transceivers 2 (splitterless ADSL2)

24pp E 23104 F 23105 S 23106 17 CHF

G.992.5 (05/03) Asymmetrical Digital Subscriber Line (ADSL) transceivers – Extended bandwidth ADSL2 (ADSL2+)

94pp E 24754 F 24755 S 24756 39 CHF

G.993.1 (11/01) Very high speed digital subscriber line foundation

52pp E 22274 F 22275 S 22276 22 CHF

G.993.1 (2001) Amendment 1 (03/03)

New Annex F: Regional requirements for environment coexisting with TCM-ISDN DSL as defined in Appendix III of ITU-T Recommendation G.961

47pp E 24636 F 24637 S 24638 22 CHF

G.994.1 (05/03) Handshake procedures for digital subscriber line (DSL) transceivers

163pp E 24773 F 24774 S 24775 61 CHF

G.994.1 (2003) Amendment 1 (02/04)

To be published...

G.995.1 (02/01) Overview of digital subscriber line (DSL) Recommendations

36pp E 21048 F 21049 S 21050 17 CHF

G.995.1 (2001) Amendment 1 (11/01)

12pp E 21937 F 21938 S 21939 9 CHF

G.996.1 (02/01) Test procedures for digital subscriber line (DSL) transceivers

86pp E 21320 F 21321 S 21322 39 CHF

G.996.1 (2001) Amendment 1 (03/03)

New Annex B

13pp E 24014 F 24015 S 24016 12 CHF

G.996.1 Erratum 1 (01/03)

Digital terminal equipments

G.997.1 (05/03) Physical layer management for digital subscriber line (DSL) transceivers

73pp E 24984 F 24985 S 24986 34 CHF

G.997.1 (2003) Amendment 1 (12/03)

11pp E 25187 F 25188 S 25189 9 CHF

Suppl. 27 (10/84) Interference from external sources

This Supplement is also published as G.500 series supplement in Red Book fascicle III.2

Suppl. 34 (11/88) Temperature in underground containers for the installation of repeaters

Suppl. 35 (11/88) Guidelines concerning the measurement of wander

Suppl. 36 (11/88) Jitter and wander accumulation in digital networks

Suppl. 37 (10/98) ITU-T Recommendation G.763 digital circuit multiplication equipment (DCME) tutorial and dimensioning

20pp E 15964 F 15965 S 15966 17 CHF

Suppl. 38 (10/98) Variable bit rate calculations for ITU-T Recommendation G.767 Digital Circuit Multiplication Equipment (DCME)

8pp E 14406 F 14407 S 14408 9 CHF

G.1000 (11/01) Communications Quality of Service: A framework and definitions

16pp E 21742 F 21743 S 21744 12 CHF

G.1010 (11/01) End-user multimedia QoS categories

18pp E 21883 F 21884 S 21885 12 CHF

G.1020 (11/03) Performance parameter definitions for quality of speech and other voiceband applications utilising IP networks

30pp E 24964 F 24965 S 24966 17 CHF

G.7041/Y.1303 (12/03) Generic framing procedure (GFP)

58pp E 24981 29 CHF

G.7042/Y.1305 (11/01) Link capacity adjustment scheme (LCAS) for virtual concatenated signals

24pp E 21947 F 21948 S 21949 17 CHF

G.7042/Y.1305 (2001) Corrigendum 1 (06/02)

G.7042/Y.1305 (2001) Corrigendum 2 (03/03)

G.7710/Y.1701 (11/01) Common equipment management function requirements

88pp E 22596 F 22597 S 22598 39 CHF

G.7712/Y.1703 (03/03) Architecture and specification of data communication network

76pp E 24574 F 24575 S 24576 34 CHF

G.7713/Y.1704 (12/01) Distributed call and connection management (DCM)

74pp E 22912 F 22913 S 22914 34 CHF

G.7713.1/Y.1704.1 (03/03) Distributed call and connection management (DCM) based on PNNI

50pp E 24323 F 24324 S 24325 29 CHF

G.7713.2/Y.1704.2 (03/03) Distributed Call and Connection Management: Signalling mechanism using GMPLS RSVP-TE

45pp E 24418 F 24419 S 24420 22 CHF

G.7713.3/Y.1704.3 (03/03) Distributed Call and Connection Management: Signalling mechanism using GMPLS CR-LDP

43pp E 24383 F 24384 S 24385 22 CHF

G.7714/Y.1705 (11/01) Generalized automatic discovery techniques

16pp E 21414 F 21415 S 21416 17 CHF

G.7714.1/Y.1705.1 (04/03) Protocol for automatic discovery in SDH and OTN networks

30pp E 24421 F 24422 S 24423 17 CHF

G.7715/Y.1706 (06/02) Architecture and Requirements for Routing in the Automatic Switched Optical Networks

36pp E 22748 F 22749 S 22750 17 CHF

G.7715.1/Y.1706.1 (02/04) ASON routing architecture and requirements for link state protocols

25pp E 25228 17 CHF

G.8010/Y.1306 (02/04) Architecture of Ethernet Layer Networks

42pp E 25562 22 CHF

G.8040/Y.1340 (12/03) GFP frame mapping into plesiochronous digital hierarchy (PDH)

10pp E 24845 F 24846 S 24847 9 CHF

G.8080/Y.1304 (11/01) Architecture for the automatic switched optical networks (ASON)

48pp E 22221 F 22222 S 22223 22 CHF

G.8080/Y.1304 Amendment 1 (03/02)

To be published...

G.8201 (09/03) Error performance parameters and objectives for multi-operator international paths within the Optical Transport Network (OTN)

20pp E 24898 F 24899 S 24890 12 CHF

G.8251 (11/01) The control of jitter and wander within the optical transport network (OTN)

64pp E 22556 F 22557 S 22558 29 CHF

G.8251 (2001) Amendment 1 (06/02)

60pp E 22874 F 22875 S 22876 29 CHF

G.8251 (2001) Corrigendum 1 (06/02)

SERIES H

Audiovisual and multimedia systems

H.11 (10/84) Withdrawn (06/98)

Characteristics of circuits in the switched telephone network

Deleted after its content became technically out of date

Individually through the Electronic Bookshop: 20 CHF

H.12 (10/84) Withdrawn (06/98)

Characteristics of telephone-type leased circuits

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Individually through the Electronic Bookshop: 20 CHF

H.13 (11/88) Withdrawn (06/98)

Impulsive noise measuring instrument for telephonetype circuits

H.13 was an alias name of ITU-T O.71. Only this alias name was suppressed. ITU-T O.71 remains valid

Individually through the Electronic Bookshop: 20 CHF

H.14 (10/84) Withdrawn (06/98)

Characteristics of group links for the transmission of wide-spectrum signals

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H.15 (10/84) Withdrawn (06/98)

Characteristics of supergroup links for the transmission of wide-spectrum signals

Individually through the Electronic Bookshop: 20 CHF

H.16 (10/84) Withdrawn (06/98)

Characteristics of an impulsive-noise measuring instrument for wideband data transmission

H.16 was an alias name of ITU-T O.72. Only this alias name was suppressed. ITU-T O.72 remains valid

Individually through the Electronic Bookshop: 20 CHF

H.21 (10/84) Withdrawn (06/98)

Composition and terminology of international voice-frequency telegraph systems

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Individually through the Electronic Bookshop: 20 CHF

H.22 (10/84) Withdrawn (06/98)

Transmission requirements of international voice-frequency telegraph links (at 50, 100 and 200 bauds)

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Individually through the Electronic Bookshop: 20 CHF

H.23 (10/84) Withdrawn (06/98)

Basic characteristics of telegraph equipments used in international voice-frequency telegraph systems

This Recommendation was only reproducing for information some characteristics given in ITU-T R.31 and R.35

Individually through the Electronic Bookshop: 20 CHF

H.32 (11/88) Withdrawn (06/98)

Simultaneous communication by telephony and telegraphy on a telephone-type circuit

H.32 was an alias name of ITU-T R.43. Only this alias name was suppressed. ITU-T R.43 remains valid

E 10260 F 10260 S 10260 9 CHF

H.34 (10/84) Withdrawn (06/98)

Subdivision of the frequency band of a telephonetype circuit between telegraphy and other services

Deleted after its content became technically out of date

Individually through the Electronic Bookshop: 20 CHF

H.43 (11/88) Withdrawn (06/98)

Document facsimile transmissions on leased telephone-type circuits

H.43 was an alias name of ITU-T T.10. Only this alias name was suppressed. ITU-T T.10 remains valid

9 CHF

H.51 (11/88) Withdrawn (06/98)

Power levels for data transmission over telephone lines

H.51 was an alias name of ITU-T V.2. Only this alias name was suppressed. ITU-T V.2 remains valid

9 CHF

H.52 (10/84) Withdrawn (06/98)

Transmission of wide-spectrum signals (data, facsimile, etc.) on wideband group links

Deleted after its content became technically out of date

H.53 (10/84) Withdrawn (06/98)

Transmission of wide-spectrum signals (data, etc.) over wideband supergroup links

Deleted after its content became technically out of date

Individually through the Electronic Bookshop: 20 CHF

H.100 (11/88) Visual telephone systems

Individually through the Electronic Bookshop: 20 CHF

H.110 (11/88) Hypothetical reference connections for videoconferencing using primary digital group transmission

Individually through the Electronic Bookshop: 20 CHF

H.120 (03/93) Codecs for videoconferencing using primary digital group transmission

60pp E 4311 F 4310 S 4312 24 CHF

H.130 (11/88) Frame structures for use in the international interconnection of digital codecs for videoconferencing or visual telephony

Individually through the Electronic Bookshop: 20 CHF

H.140 (11/88) A multipoint international videoconference system

Individually through the Electronic Bookshop: 20 CHF

Infrastructure of audiovisual services

General

H.200 (03/93) Framework for Recommendations for audiovisual services

4pp E 3790 F 3789 S 3791 8 CHF

Transmission multiplexing and synchronization

H.221 (05/99) Frame structure for a 64 to 1920 kbit/s channel in audiovisual teleservices

Covering note, May 2000: Erratum

48pp E 16658 F 16659 S 16660 22 CHF

H.221 (03/04) Frame structure for a 64 to 1920 kbit/s channel in audiovisual teleservices

To be published...

H.221 Erratum (12/00) Erratum to Recommendation ITU-T H.221 (05/99)

H.222 (11/88) Withdrawn (12/90)

Frame structure for 384-1920 kbit/s channels in audiovisual teleservices

Merged with ITU-T H.221 in 1990

Individually through the Electronic Bookshop:

H.222.0 (02/00) 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)

172pp E 17983 F 17984 S 17985 73 CHF

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H.222.0 (2000) Amendment 1 (12/02)

This amendment includes the correction introduced by H.222.0 (2000) Amend.1/Cor.1 (2003)

30pp E 23419 F 23420 S 23421 17 CHF

H.222.0 (2000) Amendment 1 Corrigendum 1 (06/03)

Never published, directly consolidated in Amend.1 to H.222.0 (2000)

To be published...

H.222.0 Amendment 2 (06/03) Support of IPMP on MPEG-2 systems

16pp E 24494 F 24495 S 24496 12 CHF

Infrastructure of audiovisual services

H.222.0 (2000) Amendment 2 Erratum 1 (02/04)

Applies to English version only

H.222.0 (2000) Amendment 3 (03/04) Transport of AVC video data over ITU-T Recommendation H.222.0 | ISO/IEC 13818-1 streams

To be published

To be published...

H.222.0 (2000) Technical Cor.1 (03/01)

H.222.0 (2000) Technical Cor.2 (03/02)

H.222.1 (03/96) Multimedia multiplex and synchronization for audiovisual communication in ATM environments

24pp E 7394 F 7395 S 7396 17 CHF

H.223 (07/01) Multiplexing protocol for low bit rate multimedia communication

76pp E 21543 F 21544 S 21545 22 CHF

H.224 (02/00) A real time control protocol for simplex applications using the H.221 LSD/HSD/HLP channels

20pp E 18714 F 18715 S 18716 17 CHF

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H.225.0 (07/03) Call signalling protocols and media stream packetization for packet-based multimedia communication systems

187pp E 24904 F 24905 S 24906 73 CHF

Infrastructure of audiovisual services

H.226 (09/98) Channel aggregation protocol for multilink operation on circuit-switched networks

24pp E 14188 F 14189 S 14190 17 CHF

Systems aspects

H.230 (05/99) Frame-synchronous control and indication signals for audiovisual systems

24pp E 16586 F 16587 S 16588 17 CHF

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Transmission multiplexing and synchronization

H.230 (03/04) Frame-synchronous control and indication signals for audiovisual systems

29pp E 25688 17 CHF

Infrastructure of audiovisual services

Systems aspects

H.231 (07/97) Multipoint control units for audiovisual systems using digital channels up to 1920 kbit/s

20pp E 12438 F 12439 S 12440 17 CHF

H.233 (11/02) Confidentiality system for audiovisual services

28pp E 23276 F 23277 S 23278 17 CHF

H.234 (11/02) Encryption key management and authentication system for audiovisual services

30pp E 23294 F 23295 S 23296 17 CHF

H.235 (08/03) Security and encryption for H-series (H.323 and other H.245-based) multimedia terminals

129pp E 25164 F 25165 S 25166 49 CHF

H.239 (07/03) Role management and additional media channels for H.300-series terminals

31pp E 24577 F 24578 S 24579 17 CHF

Communication procedures

H.241 (07/03) Extended video procedures and control signals for H.300-series terminals

This edition includes the modifications introduced by H.241 (2003) Cor.1 approved on 15 March 2004

24pp E 25281 F 25282 S 25283 17 CHF

H.241 (2003) Corrigendum 1 (03/04)

This corrigendum was never published, its content having been included in the published ITU-T Rec. H.241 (07/2003)

H.242 (05/99) System for establishing communication between audiovisual terminals using digital channels up to 2 Mbit/s

84pp E 16887 F 16888 S 16889 39 CHF

H.242 (03/04) System for establishing communication between audiovisual terminals using digital channels up to 2 Mbit/s

To be published...

H.243 (02/00) Procedures for establishing communication between three or more audiovisual terminals using digital channels up to 1920 kbit/s

60pp E 18147 F 18148 S 18149 29 CHF

H.243 (2000) Corrigendum 1 (11/00)

H.244 (07/95) Synchronized aggregation of multiple 64 or 56 kbit/s channels

28pp E 6467 F 6468 S 6469 15 CHF

H.245 (07/03) Control protocol for multimedia communication

To be published

313pp E 24237 F 23239 S 23240 124 CHF

H.246 (02/98) Interworking of H-Series multimedia terminals with H-Series multimedia terminals and voice/voiceband terminals on GSTN and ISDN

28pp E 13397 F 13398 S 13399 17 CHF

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H.246 Annex C **(07/03)** Annex C: ISDN User Part function – H.225.0 interworking

84pp E 24945 F 24946 S 24947 34 CHF

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H.246 Annex E1 (11/00) General Inter-Working Function (IWF) between Mobile Application Part and H.225.0

20pp E 21869 F 21870 S 21871 12 CHF

H.246 Annex E2 (11/00) Annex E2: ANSI-41 (Americas) Mobile Application Part and H.225.0 interworking

56pp E 21708 F 21709 S 21710 29 CHF

H.246 Annex F (07/01) H.323 – H.324 interworking 18pp E 21603 F 21604 S 21605 12 CHF

H.247 (09/98) Multipoint extension for broadband audiovisual communication systems and terminals

28pp E 14267 F 14268 S 14269 17 CHF

H.248 (06/00) Gateway control protocol

This Recommendation was renumbered as H.248.1 when revised on 2002-03-29

132pp E 18717 F 18718 S 18719 55 CHF

H.248/H.248.2 Annex F (11/00) Facsimile, text conversation and call discrimination packages

This Annex was renumbered as Rec. H.248.2 on 2002-03-29 without further modification

H.248/H.248.3 Annex G (11/00) User interface elements and actions packages

This Annex was renumbered as Rec. H.248.3 on 2002-03-29 without further modification

H.248/H.248.4 Annex H (11/00) Transport over SCTP

This Annex was renumbered as Rec. H.248.4 on 2002-03-29 without further modification

H.248/H.248.5 Annex I (11/00) Transport over ATM

This Annex was renumbered as Rec. H.248.5 on 2002-03-29 without further modification

H.248/H.248.6 Annex J (11/00) Dynamic Tone Definition package

This Annex was renumbered as Rec. H.248.6 on 2002-03-29 without further modification

H.248/H.248.10 Annex M2 (07/01) Gateway control protocol: Media gateway resource congestion handling package

This Annex was renumbered as H.248.10 on 2002-03-29 without further modification

10pp E 20828 F 20829 S 20830 9 CHF

H.248/H.248.12 Annex M4 (07/01) This annex was renumbered as H.248.12 on 2002-03-29 without further modification

This Annex was renumbered as H.248.12 on 29-03-2002 without further modification

30pp E 20891 F 20892 S 20893 17 CHF

H.248.1 (05/02) Gateway control protocol: Version 2

150pp E 23024 F 23025 S 23026 61 CHF

H.248.1 V2 (2002) Corrigendum 1 (03/04)

H.248.2 (11/00) Gateway control protocol: Facsimile, text conversation and call discrimination packages

This Recommendation was first approved and published as Annex F to H.248, and then renumbered as H.248.2 on 2002-03-29 without further modification

48pp E 22613 F 22614 S 22615 22 CHF

H.248.2/H.248 Annex F (11/00) Facsimile, text conversation and call discrimination packages

This Annex was renumbered as Rec. H.248.2 on 2002-03-29 without further modification

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H.248.3 (11/00) Gateway control protocol: User interface elements and actions packages

This Recommendation was first approved and published as Annex G to H.248, and then renumbered as H.248.3 on 2002-03-29 without further modification

16pp E 22431 F 22432 S 22433 12 CHF

H.248.3/H.248 Annex G (11/00) User interface elements and actions packages

This Annex was renumbered as Rec. H.248.3 on 2002-03-29 without further modification

To be published...

H.248.3 (2000) Corrigendum 1 (03/04)

H.248.4 (11/00) Gateway control protocol: Transport over Stream Control Transmission Protocol (SCTP)

This Recommendation was first approved and published as Annex H to H.248, and then renumbered as H.248.4 on 2002-03-29 without further modification

8pp E 22434 F 22435 S 22436 9 CHF

H.248.4/H.248 Annex H (11/00) Transport over SCTP

This Annex was renumbered as Rec. H.248.4 on 2002-03-29 without further modification

H.248.4 (2000) Corrigendum 1 (03/04)

H.248.5 (11/00) Gateway control protocol: Transport over ATM

This Recommendation was first approved and published as Annex I to H.248, and then renumbered as H.248.5 on 2002-03-29 without further modification

12pp E 21481 F 21482 S 21483 9 CHF

H.248.5/H.248 Annex I (11/00) Transport over ATM

This Annex was renumbered as Rec. H.248.5 on 2002-03-29 without further modification

H.248.6 (11/00) Gateway control protocol: Dynamic Tone Definition package

This Recommendation was first approved and published as Annex J to H.248, and then renumbered as H.248.6 on 2002-03-29 without further modification

12pp E 21478 F 21479 S 21480 9 CHF

H.248.6/H.248 Annex J (11/00) Dynamic Tone Definition package

This Annex was renumbered as Rec. H.248.6 on 2002-03-29 without further modification

To be published...

H.248.7 (03/04) Gateway control protocol: Generic Announcement package

Approved as Corr.1 to H.248.7 (2000), but due to the number of modifications, it was decided to publish it as a new edition

To be published...

H.248.7 (2000) Corrigendum 1 (03/04)

To be published...

H.248.8 (03/02) Gateway control protocol: Error code and service change reason description

The former Annex L to H.248 was renumbered as H.248.8 when revised on 2002-03-29

24pp E 22437 F 22438 S 22439 17 CHF

H.248.8 (2002) Amendment 1 (03/04) New error code 458 (Unexpected Event/RequestID)

9pp E 25450 9 CHF

H.248.9 (03/02) Gateway control protocol: Advanced media server packages

Drafted as H.248 Annex M1, renumbered and published as H.248.9

52pp E 22379 F 22380 S 22381 22 CHF

H.248.10 (07/01) Gateway control protocol: Media gateway resource congestion handling package

This Recommendation was first approved and published as Annex M2 to H.248, and then renumbered as H.248.10 on 2002-03-29 without further modification

9pp E 22160 F 22161 S 22162 9 CHF

H.248.10/H.248 Annex M2 (07/01) Gateway control protocol: Media gateway resource congestion handling package

This Annex was renumbered as H.248.10 on 2002-03-29 without further modification

H.248.11 (11/02) Gateway control protocol: Media gateway overload control package

24pp E 23377 F 23378 S 23379 17 CHF

H.248.12 (07/01) Gateway control protocol: H.248.1 packages for H.323 and H.324 interworking

This Recommendation was first approved and published as Annex M4 to H.248, and renumbered as H.248.12 on 2002-03-29 without further modification

32pp E 22183 F 22184 S 22185 17 CHF

H.248.12 (2001) Amendment 1 (11/02) New Annex A: Extended H.324, H.245 command and H.245 indication packages

18pp E 23329 F 23330 S 23331 12 CHF

H.248.12/H.248 Annex M4 (07/01) This annex was renumbered as H.248.12 on 2002-03-29 without further modification

This Annex was renumbered as H.248.12 on 29-03-2002 without further modification

To be published...

H.248.13 (03/02) Gateway control protocol: Quality Alert Ceasing package

Drafted as H.248 Annex M5, renumbered and published as H.248.13

10pp E 22163 F 22164 S 22165 9 CHF

H.248.14 (03/02) Gateway control protocol: Inactivity timer package

Drafted as H.248 Annex M6, renumbered and published as H.248.14

9pp E 22166 F 22167 S 22168 9 CHF

H.248.15 (03/02) Gateway control protocol: SDP H.248 package attribute

Drafted as H.248 Annex N, renumbered and published as H.248.15

12pp E 22277 F 22278 S 22279 9 CHF

H.248.16 (11/02) Gateway control protocol: Enhanced digit collection packages and procedures

18pp E 23439 F 23440 S 23441 12 CHF

H.248.16 (2002) Corrigendum 1 (03/04)

H.248.17 (11/02) Gateway control protocol: Line test package

30pp E 23472 F 23473 S 23474 17 CHF

H.248.17 (2002) Corrigendum 1 (03/04)

H.248.17 (2002) Corrigendum 1 (03/04)

H.248.18 (11/02) Gateway control protocol: Package for support of multiple profiles

12pp E 23279 F 23280 S 23281 9 CHF

H.248.19 (03/04) Gateway control protocol:
 Decomposed multipoint control unit, audio, video and data conferencing packages

To be published...

H.248.20 (11/02) Gateway control protocol: The use of local and remote descriptors with H.221 and H.223 multiplexing

14pp E 23297 F 23298 S 23299 9 CHF

H.248.21 (03/04) Gateway control protocol: Semipermanent connection handling package

11pp E 25340 9 CHF

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H.248.22 (07/03) Gateway control protocol: Shared Risk Group package

12pp E 24515 F 24516 S 24517 9 CHF

H.248.22 (2003) Erratum 1 (01/04)

H.248.23 (07/03) Gateway control protocol: Enhanced Alerting packages

Ellianced Alerting packages

17pp E 24580 F 24581 S 24582 12 CHF

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H.248.23 (2003) Corrigendum 1 (03/04)

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H.248.24 (07/03) Gateway control protocol: Multi-frequency tone generation and detection packages

11pp E 24612 F 24613 S 24614 9 CHF

H.248.25 (07/03) Gateway control protocol: Basic CAS packages

29pp E 24583 F 24584 S 24585 17 CHF

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H.248.25 (2003) Corrigendum 1 (03/04)

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H.248.26 (07/03) Gateway control protocol: Enhanced analog line packages

14pp E 24460 F 24461 S 24462 12 CHF

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H.248.26 (2003) Corrigendum 1 (03/04)

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H.248.27 (07/03) Gateway control protocol: Supplemental tones packages

19pp E 24524 F 24525 S 24526 12 CHF

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H.248.28 (03/04) Gateway control protocol: International CAS packages

15pp E 25394 F 25395 S 25396 12 CHF

H.248.30 (03/04) Gateway control protocol: RTCP extended performance metrics packages

13pp E 25347 F 25348 S 25349 12 CHF

H.248.31 (04/04) Gateway control protocol: Adaptive jitter buffer package

To be published...

Coding of moving video

H.261 (03/93) Video codec for audiovisual services at p x 64 kbit/s

25pp E 4186 F 4185 S 4187 15 CHF

H.262 (02/00) 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)

216pp E 18106 F 18107 S 18108 96 CHF

H.262 (2000) Amendment 1 (11/00) Amendment 1: Video elementary stream content description data

24pp E 19813 F 19814 S 19815 17 CHF

H.262 (2000) Amendment 1 Erratum 1 (04/02) Erratum 1

H.262 (2000) Technical Cor. 1 (11/00)

H.263 (02/98) Video coding for low bit rate communication

164pp E 13923 F 13924 S 13925 73 CHF

H.263 Annex U (11/00) Enhanced reference picture selection mode

40pp E 20590 F 20591 S 20592 22 CHF

H.263 Annex V (11/00) Data partitioned slice (DPS)

16pp E 20158 F 20159 S 20160 12 CHF

H.263 Annex W (11/00) Additional supplemental enhancement information

24pp E 20150 F 20151 S 20152 22 CHF

H.263 Annex X (04/01) Annex X: Profiles and levels definition

22pp E 20777 F 20778 S 20779 17 CHF

H.263 Annex X (03/04) Profiles and levels definition

21pp E 25557 17 CHF

H.263 Appendix II (06/01) Recommended optional enhancement

H.263 Appendix III (06/01) Video coding for low bit rate communication

Appendix III: Examples for H.263 encoder/decoder implementations

52pp E 22010 F 22011 S 22012 22 CHF

H.264 (05/03) Advanced video coding for generic audiovisual services

To be published...

Related systems aspects

H.281 (11/94) A far end camera control protocol for videoconferences using H.224

8pp E 5897 F 5896 S 5898 11 CHF

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I.363.5 (08/96) Type 5 AAL I.371.1 (06/97) Withdrawn (10/00) Traffic control and congestion control in B-ISDN: 48pp E 11192 F 11193 S 11194 22 CHF conformance definitions for ABT and ABR Deleted, its content having been integrated in ITU-T 1.371 I.364 (02/99) Support of the broadband (03/2000)connectionless data bearer service by the B-ISDN 32pp E 11802 F 11803 S 11804 17 CHF E 15886 F 15887 S 15888 39 CHF 84pp **I.371.1** (11/00) Guaranteed frame rate ATM transfer capability I.365 B-ISDN ATM adaptation layer sublayers 22pp E 20161 F 20162 S 20163 17 CHF **I.365.1 (11/93)** Frame relaying service specific **I.372 (03/93)** Frame relaying bearer service networkconvergence sublayer (FR-SSCS) to-network interface requirements E 5189 F 5237 S 5272 11 CHF 8pp E 3808 F 3807 S 3809 10pp 11 CHF **I.365.2** (11/95) Service-specific coordination **I.373 (03/93)** Network capabilities to support function to provide the connection-oriented network universal personal telecommunication (UPT) service E 3799 F 3798 S 3800 15 CHF 16pp E 7281 F 7282 S 7284 44 CHF 104pp I.374 (03/93) **Withdrawn (06/98)** Framework Recommendation on "network **I.365.3 (11/95)** Service-specific coordination capabilities to support multimedia services" function to provide the connection-oriented transport Replaced by ITU-T 1.375.1 and ITU-T 1.375.2 service E 3820 F 3819 S 3821 11 CHF 7pp 84pp E 7160 F 7161 S 7162 **34 CHF** I.375 Network capabilities to support multimedia **I.365.4 (08/96)** Service-specific convergence services sublayer for HDLC applications E 11015 F 11016 S 11017 12 CHF 12pp **I.375.1 (06/98)** General aspects E 13488 F 13489 S 13490 17 CHF 16pp I.366.1 (06/98) Segmentation and Reassembly Service Specific Convergence Sublayer for the AAL **I.375.2 (06/98)** Example of multimedia retrieval type 2 service class - Video-on-demand service using an ATM based network S 13822 36pp E 13820 F 13821 22 CHF E 13592 F 13593 S 13594 17 CHF I.366.1 Corrigendum 1 (02/02) **I.375.3 (03/00)** Example of multimedia distribution To be published... service class – Switched digital broadcasting E 19442 F 19443 S 19444 12 CHF 12pp **I.366.2 (11/00)** AAL type 2 service specific convergence sublayer for narrow-band services **I.376 (03/95)** ISDN network capabilities for the support of the teleaction service E 20196 F 20197 S 20198 49 CHF 130pp E 5912 F 5911 S 5913 11 CHF 14pp I.366.2 (2000) Corrigendum 1 (03/02) **I.377 (10/00)** Network requirements to support charging and accounting in B-ISDN *General network requirements and functions* 16pp E 18903 F 18904 S 18905 12 CHF I.370 (10/91) Congestion management for the ISDN **I.378 (12/02)** Traffic control and congestion control frame relaying bearer service at the ATM Adaptation Layer type 2 E 23368 F 23369 S 23370 17 CHF 22pp E 2354 F 2332 S 2376 12 CHF 10pp I.378 (2002) Amendment 1 (08/03) I.371 (03/00) Traffic control and congestion control New Appendix IV: Deriving AAL 2 traffic in B-ISDN parameters from AAL 2 link characteristics 132pp E 19872 F 19873 S 19874 49 CHF E 24776 F 24777 S 24778 9 CHF 8pp

I.381 (03/01) ATM Adaptation Layer (ALL) performance 32pp E 20625 F 20626 S 20627 17 CHF

ISDN user-network interfaces

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I.431 (1993) Amendment 1 (06/97)

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I.432 B-ISDN User-Network Interface – Physical layer specification

I.432.1 (02/99) General characteristics

20pp E 15573 F 15574 S 15575 17 CHF

I.432.2 (02/99) 155 520 kbit/s and 622 080 kbit/s operation

40pp E 16180 F 16181 S 16182 22 CHF

I.432.3 (02/99) 1544 kbit/s and 2048 kbit/s operation 16pp E 15470 F 15471 S 15472 12 CHF

I.432.4 (02/99) 51 840 kbit/s operation

20pp E 15455 F 15456 S 15457 17 CHF

I.432.5 (06/97) 25 600 kbit/s operation

28pp E 11729 F 11730 S 11731 17 CHF

Layer 2 Recommendations

I.440 (03/93) ISDN user-network interface data link layer – General aspects

This Recommendation is published under alias number Q.920

I.440 (1993) Amendment 1 (06/00)

To be published...

Digital subscriber Signalling System No. 1

I.441 (09/97) ISDN user-network interface – Data link layer specification

This Recommendation is published under alias number 0.921.

268pp E 13327 F 13328 S 13329 96 CHF

ISDN user-network interfaces

I.441 (1997) Amendment 1 (06/00)

To be published...

Layer 3 Recommendations

I.450 (03/93) ISDN user-network interface layer 3 – General aspects

This Recommendation is published under alias number Q.930.

I.451 (05/98) ISDN user-network interface layer 3 specification for basic call control

This Recommendation is published under alias number Q.931.

I.452 (05/98) Digital subscriber signalling systemNo. 1 – Generic procedures for the control of ISDN supplementary services

This Recommendation is published under alias number 0.932.

Multiplexing, rate adaption and support of existing interfaces

I.460 (02/99) Multiplexing, rate adaption and support of existing interfaces

8pp E 14757 F 14758 S 14759 9 CHF

I.461 (03/93) 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 published under alias number X.30.*

I.462 (11/95) Support of packet mode terminal equipment by an ISDN

This Recommendation is published under alias number X.31.

I.463 (02/00) Support by an ISDN of data terminal equipments with V-Series type interfaces

This Recommendation is published under alias number V.110.

I.464 (02/99) Multiplexing, rate adaption and support of existing interfaces for restricted 64 kbit/s transfer capability

8pp E 14760 F 14761 S 14762 9 CHF

I.465 (10/96) Support by an ISDN of data terminal equipment with V-Series type interfaces with provision for statistical multiplexing

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Aspects of ISDN affecting terminal requirements

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Internetwork interfaces

I.500 (03/93) General structure of the ISDN interworking Recommendations

4pp E 3929 F 3928 S 3930 8 CHF

I.501 (03/93) Service interworking

8pp E 3781 F 3780 S 3782 11 CHF

I.510 (03/93) Definitions and general principles for ISDN interworking

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I.525 (08/96) Interworking between networks operating at bit rates less than 64 kbit/s with 64 kbit/s-based ISDN and B-ISDN

20pp E 11033 F 11034 S 11035 17 CHF

I.530 (03/93) Network interworking between an ISDN and a public switched telephone network (PSTN)

10pp E 3938 F 3937 S 3939 11 CHF

I.540 (10/96) 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 published under alias number X.321

I.550 (10/96) 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 published under alias number X.325

I.555 (09/97) Frame Relaying Bearer Service interworking

40pp E 12595 F 12596 S 12597 22 CHF

I.560 (03/93) Technical requirements to be met in providing the international telex service within an integrated services digital network

This Recommendation is published under alias number U.202

I.570 (03/93) Public/private ISDN interworking

7pp E 3763 F 3762 S 3764 11 CHF

I.571 (08/96) Connection of VSAT based private networks to the public ISDN

36pp E 10839 F 10840 S 10841 22 CHF

I.572 (03/00) VSAT interconnection with the PSTN 92pp E 19608 F 19609 S 19610 39 CHF

I.580 (11/95) General arrangements for interworking between B-ISDN and 64 kbit/s based ISDN

32pp E 6811 F 6812 S 6813 17 CHF

I.581 (09/97) General arrangements for B-ISDN interworking

16pp E 12522 F 12523 S 12524 12 CHF

Maintenance principles

I.601 (11/88) General maintenance principles of ISDN subscriber access and subscriber installation

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I.610 (02/99) B-ISDN operation and maintenance principles and functions

84pp E 16387 F 16388 S 16389 39 CHF

I.610 (1999) Amendment 1 (03/00)

4pp E 19512 F 19513 S 19514 9 CHF

I.610 (1999) Corrigendum 1 (03/00)

I.620 (10/96) Frame relay operation and maintenance principles and functions

12pp E 10827 F 10828 S 10829 12 CHF

I.630 (02/99) ATM protection switching

40pp E 16065 F 16066 S 16067 22 CHF

I.630 (1999) Amendment 1 (03/00)

4pp E 19457 F 19458 S 19459 9 CHF

I.630 (1999) Corrigendum 1 (03/00)

B-ISDN equipment aspects

ATM equipment

I.731 (10/00) Types and general characteristics of ATM equipment

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I.732 (10/00) Functional characteristics of ATM equipment

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Transport functions

I.741 (07/99) Interworking and interconnection between ATM and switched telephone networks for the transmission of speech, voiceband data and audio signals

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Management of ATM equipment

I.751 (03/96) Asynchronous transfer mode management of the network element view

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Multiplexing aspects

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I.761 (03/00) Inverse multiplexing for ATM (IMA)

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I.762 (03/00) ATM over fractional physical links

8pp E 19515 F 19516 S 19517 9 CHF

SERIES J

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

General Recommendations

J.1 (09/99) Withdrawn (09/02)

Terms, definitions and acronyms applicable to the transmission of television and sound-programme signals and of related data signals

With the development of the ITU-T terms and definitions database available on the ITU-T web site, Recommendation J.1 and Supplement 4 to J series no longer serve a useful purpose

8pp E 17553 F 17554 S 17555 9 CHF

J.2 (09/99) Guidelines on the use of some ITU-T Recommendations in the J series

8pp E 17556 F 17557 S 17558 9 CHF

General specifications for analogue soundprogramme transmission

J.11 (11/88) Hypothetical reference circuits for sound-programme transmissions

Formerly ITU-R Rec. CMTT 502-2

Individually through the Electronic Bookshop: 20 CHF

J.12 (11/88) Types of sound-programme circuits established over the international telephone network *Individually through the Electronic Bookshop:* 20 CHF

J.13 (11/88) Definitions for international sound-programme circuits

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J.14 (11/88) Relative levels and impedances on an international sound-programme connection

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J.15 (11/88) Lining-up and monitoring an international sound-programme connection

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J.17 (11/88) Pre-emphasis used on sound-programme circuits

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J.19 (11/88) A conventional test signal simulating sound-programme signals for measuring interference in other channels

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Performance characteristics of analogue soundprogramme circuits

J.21 (08/94) Performance characteristics of 15 kHz-type sound-programme circuits – Circuits for high quality monophonic and stereophonic transmissions

Formerly ITU-R Rec. CMTT 505-5

8pp E 5570 F 5569 S 5571 11 CHF

J.22 (10/84) Withdrawn (03/93)

Performance characteristics of 10 kHz type soundprogramme circuits

Deleted after its content became technically out of date

J.23 (11/88) Performance characteristics of 7 kHz type (narrow bandwidth) sound-programme circuits

Formerly ITU-R Rec. CMTT 503-4

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J.24 (02/82) 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

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E 11208 F 11208 S 11208 9 CHF

J.25 (05/86) 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

Individually through the Electronic Bookshop: 20 CHF

E 11209 F 11209 S 11209 9 CHF

J.26 (06/90) 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

Individually through the Electronic Bookshop: 20 CHF

E 11210 F 11210 S 11210 9 CHF

J.27 (06/90) Signals for the alignment of international sound-programme connections

Published as ITU-R Rec. CMTT 661-1 in CCIR Recommendations, Volume XII, Düsseldorf, 1990

Individually through the Electronic Bookshop: 20 CHF

E 11211 F 11211 S 11211 9 CHF

Equipment and lines used for analogue soundprogramme circuits

J.31 (11/88) Withdrawn (03/99)

Characteristics of equipment and lines used for setting up 15 kHz type sound-programme circuits

Deleted because no system or equipment have implemented it during the last two study periods

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J.32 (10/84) Withdrawn (03/93)

Characteristics of equipment and lines used for setting up 10 kHz type sound-programme circuits

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J.33 (11/88) Withdrawn (03/99)

Characteristics of equipment and lines used for setting up 6.4 kHz type sound-programme circuits

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J.34 (11/88) Withdrawn (03/99)

Characteristics of equipment used for setting up 7 kHz type sound-programme circuits

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Digital encoders for analogue sound-programme signals

J.41 (11/88) Characteristics of equipment for the coding of analogue high quality sound programme signals for transmission on 384 kbit/s channels

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J.42 (11/88) Characteristics of equipment for the coding of analogue medium quality sound-programme signals for transmission on 384-kbit/s channels

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J.43 (11/88) Withdrawn (03/99)

Characteristics of equipment for the coding of analogue high quality sound programme signals for transmission on 320 kbit/s channels

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J.44 (11/88) Withdrawn (03/99)

Characteristics of equipment for the coding of analogue medium quality sound-programme signals for transmission on 320 kbit/s channels

Deleted because no system or equipment have implemented it during the last two study periods

Digital transmission of sound-programme signals

J.51 (08/94) General principles and user requirements for the digital transmission of high quality sound programmes

Formerly ITU-R Rec. CMTT 659-1

3pp E 5573 F 5572 S 5574 8 CHF

J.52 (07/96) 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)

32pp E 9827 F 9828 S 9829 17 CHF

J.52 (1996) Amendment 1 (09/99)

New Appendix II – Extracts from EBU specification of an ISDN Codec capable of delivering high-quality audio

12pp E 17959 F 17960 S 17961 9 CHF

J.53 (05/00) Sampling frequency to be used for the digital transmission of high-quality sound-programme signals

8pp E 19776 F 19777 S 19778 9 CHF

J.54 (05/86) 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

Individually through the Electronic Bookshop: 20 CHF

E 11220 F 11220 S 11220 9 CHF

J.55 (06/90) 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

Individually through the Electronic Bookshop: 20 CHF

E 11221 F 11221 S 11221 12 CHF

J.56 (06/90) Withdrawn (03/99)

Transmission of high-quality sound-programme analogue signals over mixed analogue/digital circuits at 320 kbit/s

Was published as ITU-R Rec. CMTT 719 in CCIR Recommendations, Volume XII, Düsseldorf, 1990. Deleted because no system or equipment have implemented it during the last two study periods

J.57 (06/90) Transmission of digital studio quality sound signals over H1 channels

Published as ITU-R Rec. CMTT 724 in CCIR Recommendations, Volume XII, Düsseldorf, 1990

Individually through the Electronic Bookshop: 20 CHF

1pp E 11236 F 11236 S 11236 12 CHF

Circuits for analogue television transmission

J.61 (06/90) 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

Individually through the Electronic Bookshop: 20 CHF

E 13368 F 13368 S 13368 22 CHF

J.62 (02/78) 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

Individually through the Electronic Bookshop: 20 CHF

E 11237 F 11237 S 11237 9 CHF

J.63 (06/90) 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

Individually through the Electronic Bookshop: 20 CHF

E 10596 F 10596 S 10596 12 CHF

J.64 (02/86) 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

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E 11238 F 11238 S 11238 12 CHF

J.65 (02/78) Standard test signal for conventional loading of a television channel

Published as ITU-R Rec. CMTT 570 in CCIR Recommendations, Volume XII, Düsseldorf, 1990

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E 11239 F 11239 S 11239 9 CHF

J.66 (02/78) 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

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E 11240 F 11240 S 11240 9 CHF

J.67 (03/01) Test signals and measurement techniques for transmission circuits carrying MAC/packet signals

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J.68 (02/82) Hypothetical reference chain for television transmissions over very long distances

Published as ITU-R Rec. CMTT 603 in CCIR Recommendations, Volume XII, Düsseldorf, 1990

Individually through the Electronic Bookshop: 20 CHF 9 CHF

E 11241 F 11241 S 11241

Analogue television transmission over metallic lines and interconnection with radio-relay links

J.73 (11/88) **Withdrawn (03/99)**

Use of a 12-MHz system for the simultaneous transmission of telephony and television

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Withdrawn (03/99) J.74 (11/88)

Methods for measuring the transmission characteristics of translating equipments

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J.75 (11/88) **Withdrawn (03/99)**

Interconnection of systems for television transmission on coaxial pairs and on radio-relay links Deleted because no system or equipment have implemented it during the last two study periods

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Withdrawn (03/99) J.77 (11/88)

Characteristics of the television signals transmitted over 18 MHz and 60-MHz systems

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Digital transmission of television signals

J.80 (09/93) 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

E 5576 F 5575 S 5577 15 CHF 15pp

J.81 (09/93) 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

E 5579 F 5578 S 5580 30 CHF

J.81 (1993) Amendment 1 (10/95) Appendix II to Annex A to Recommendation J.81 – Guidelines for implementation of a complete television codec

F 6442 S 6443 8 CHF E 6441 4pp

J.81 (1993) Amendment 2 (03/98) Appendix IV to Annex A – Results of 34 Mbit/s codec interworking tests (February 1996)

E 13519 F 13520 S 13521 9 CHF 8pp

J.81 (1993) Corrigendum 1 (10/96)

J.82 (07/96) Transport of MPEG-2 constant bit rate television signals in B-ISDN

E 7403 F 7404 S 7405 9 CHF 8pp

J.83 (04/97) Digital multi-programme systems for television, sound and data services for cable distribution

Covering note, 3.08.1998: Corrigendum

64pp E 11880 F 11881 S 11882 29 CHF

J.83 (1995) Erratum 1 (09/96)

J.83 (1997) Erratum 1 (07/98)

J.84 (03/01) Distribution of digital multi-programme signals for television, sound and data services through SMATV networks

34pp E 20593 F 20594 S 20595 17 CHF

J.85 (06/90) Digital television transmission over long distances – General principles

Published as ITU-R Rec. CMTT 604-2 in CCIR Recommendations, Volume XII, Düsseldorf, 1990

Individually through the Electronic Bookshop: 20 CHF

> E 11246 F 11246 S 11246 9 CHF

J.86 (06/90) 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

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> E 11247 E 11247 S 11247 9 CHF

J.87 (03/01) Use of hybrid cable television links for the secondary distribution of television into the user's premises

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J.88 (09/99) Transmission of enhanced definition television signals over digital links

E 18058 F 18059 S 18060 29 CHF 56pp

J.89 (09/99) Transport mechanism for componentcoded digital television signals using MPEG-2 4:2:2 P@ML including all service elements for contribution and primary distribution

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Ancillary digital services for television transmission

J.90 (05/00) Electronic programme guides for delivery by digital cable television and similar methods

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J.92 (04/97) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE's

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J.93 (03/98) Requirements for conditional access in the secondary distribution of digital television on cable television systems

12pp E 13494 F 13495 S 13496 12 CHF

J.94 (11/98) Service information for digital broadcasting in cable television systems

84pp E 16336 F 16337 S 16339 96 CHF

J.94 (1998) Amendment 2 (03/01) Additions to Annex C – Service information for digital multiprogramme System C

14pp E 20428 F 20429 S 20430 12 CHF

J.94 (1998) Amendment 1 (10/00) Service information delivered out of band for digital cable television systems

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J.95 (09/99) Copy protection of intellectual property for content delivered on cable television systems

63pp E 18570 F 18571 S 18572 29 CHF

J.96 (07/02) Technical method for ensuring privacy in long-distance international MPEG-2 television transmission conforming to Recommendation J.89

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J.97 (07/02) Metadata on cable networks

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J.98 (05/03) Metadata requirements for video-on-demand in cable networks

14pp E 24437 F 24438 S 24439 12 CHF

Operational requirements and methods for television transmission

J.100 (06/90) 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

Individually through the Electronic Bookshop: 20 CHF

E 11248 F 11248 S 11248 9 CHF

J.101 (06/90) Measurement methods and test procedures for teletext signals

Published as ITU-R Rec. CMTT 720 in CCIR Recommendations, Volume XII, Düsseldorf, 1990

Individually through the Electronic Bookshop: 20 CHF

E 11249 F 11249 S 11249 9 CHF

Interactive systems for digital television distribution

J.110 (04/97) Basic principles for a worldwide common family of systems for the provision of interactive television services

12pp E 10742 F 10744 S 10743 12 CHF

J.111 (03/98) Network independent protocols for interactive systems

Guidelines for the implementation of Rec. J.111 may be found in Supplement 3 to J series (1998).

16pp E 13568 F 13569 S 13570 12 CHF

J.112 (03/98) 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).

256pp E 14338 F 14339 S 14340 96 CHF

J.112 Amd1 (03/01) New Annexes A and B To be published...

J.112 Annex A (03/01) Digital video broadcasting: DVB interaction channel for cable TV distribution systems

192pp E 21982 F 21983 S 21984 73 CHF

J.112 Annex B (03/04) Data-over-cable service interface specifications: Radio-frequency interface specification

To be published...

J.112 Annex B (2001) Amendment 1 (02/02) Dataover-cable service interface specifications: Radiofrequency interface specification

1pp E 22386 F 22387 S 22388 9 CHF

J.112 Annex C (02/02) Data-over-cable service interface specifications: Radio-frequency interface specification using QAM technique

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J.113 (03/98) Digital video broadcasting interaction channel through the PSTN/ISDN

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J.114 (09/99) Interaction channel using digital enhanced cordless telecommunications

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J.115 (09/99) Interaction channel using the global system for mobile communications

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J.116 (05/00) Interaction channel for local multipoint distribution systems

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J.117 (09/99) Home digital network interface specification

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J.118 (05/00) Access systems for interactive services on SMATV/MATV networks

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J.120 (05/00) Recommendation J.120 (05/00) – Distribution of sound and television programs over the IP network

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J.121 (02/02) Quality control protocol for webcasting 28pp E 22172 F 22173 S 22174 17 CHF

J.122/J.Imp122 (12/02) Second-generation transmission systems for interactive cable television services – IP cable modems

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J.123 (07/02) Multiplexing format for webcasting on TCP/IP network

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J.124 (03/04) Multiplexing format for multimedia webcasting over TCP/IP networks

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Transport of MPEG-2 signals on packetised networks

J.131 (03/98) Transport of MPEG-2 signals in PDH networks

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J.132 (03/98) Transport of MPEG-2 signals in SDH networks

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Measurement of the quality of service

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J.141 (09/99) Performance indicators for data services delivered over digital cable television systems

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J.142 (05/00) Methods for the measurement of parameters in the transmission of digital cable television signals

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J.143 (05/00) User requirements for objective perceptual video quality measurements in digital cable television

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J.144 (03/01) Objective perceptual video quality measurement techniques for digital cable television in the presence of a full reference

88pp E 21606 F 21607 S 21608 34 CHF

Measurement of the quality of service

J.144 (03/04) Objective perceptual video quality measurement techniques for digital cable television in the presence of a full reference

To be published...

Measurement of the quality of service

J.145 (03/01) Measurement and control of the quality of service for sound transmission over contribution and distribution networks

12pp E 20770 F 20771 S 20772 9 CHF

Measurement of the quality of service

J.146 (07/02) Loop latency issues in contribution circuits for conversational TV programmes

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J.147 (07/02) Objective picture quality measurement method by use of in-service test signals

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J.148 (05/03) Requirements for an objective perceptual multimedia quality model

12pp E 24231 F 24232 S 24233 9 CHF

J.149 (03/04) Method for specifying accuracy and cross-calibration of Video Quality Metrics (VQM)

To be published...

Digital television distribution through local subscriber networks

J.150 (03/98) Operational functionalities for the delivery of digital multiprogramme television, sound and data services through multichannel, multipoint distribution systems (MMDS)

16pp E 13706 F 13707 S 13708 12 CHF

J.150 (1998) Amendment 1 (09/99) Additions to Recommendation J.150 to also encompass local multipoint distribution systems (LMDS)

12pp E 17678 F 17679 S 17680 12 CHF

J.150 (1998) Amendment 2 (03/01) Operational functionalities for the delivery of digital multiprogramme television, sound and data services through multichannel, multipoint distribution systems (MMDS)

10pp E 20989 F 20990 S 20991 9 CHF

J.151 (10/00) RF remodulator interface for digital television

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J.160 (02/02) Architectural framework for the delivery of time-critical services over cable television networks using cable modems

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J.161 (03/01) Audio codec requirements for the provision of bidirectional audio service over cable television networks using cable modems

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J.162 (03/01) Network call signalling protocol for the delivery of time critical services over cable television networks using cable modems

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J.162 (03/04) Network call signalling protocol for the delivery of time-critical services over cable television networks using cable modems

To be published...

J.162 (2001) Amendment 1 (02/02)

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Digital television distribution through local subscriber networks

J.163 (03/01) Dynamic quality of service for the provision of real time services over cable television networks using cable modems

232pp E 21014 F 21015 S 21016 96 CHF

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J.163 (03/04) Dynamic quality of service for the provision of real time services over cable television networks using cable modems

To be published...

Digital television distribution through local subscriber networks

J.164 (03/01) Event message requirements for the support of real-time services over cable television networks using cable modems

63pp E 20740 F 20741 S 20742 29 CHF

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J.165 (05/03) IPCablecom Internet signalling transport protocol (ISTP)

64pp E 24408 F 24409 S 24410 29 CHF

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J.166 (03/01) IPCablecom management information base (MIB) framework

20pp E 21244 F 21245 S 21246 12 CHF

J.167 (03/01) Media Terminal Adapter (MTA) device provisioning requirements for the delivery of real time services over cable television networks using cable modems

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J.168 (03/01) IPCablecom media terminal adapter (MTA) MIB requirements

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J.169 (03/01) IPCablecom network call signalling (NCS) MIB requirements

24pp E 21216 F 21217 S 21218 17 CHF

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J.170 (02/02) IPCablecom security specification To be published...

J.171 (02/02) IPCablecom Trunking Gateway Control Protocol (TGCP)

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J.171 (2002) Amendment 1 (05/03) TGCP Profile 2 24pp E 24473 F 24474 S 24476 17 CHF

J.172 (02/02) IPCablecom management event mechanism

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J.173 (02/02) IPCablecom embedded MTA primary line support

29pp E 22652 F 22653 S 22654 17 CHF

J.174 (02/02) IPCablecom interdomain quality of service

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J.175 (07/02) Audio server protocol

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J.176 (07/02) IPCablecom management event mechanism MIB

22pp E 22754 F 22755 S 22756 17 CHF

J.177 (05/03) IPCablecom CMS subscriber provisioning specification

60pp E 24380 F 24381 S 24382 29 CHF

J.178 (05/03) IPCablecom CMS to CMS signalling To be published...

Digital television distribution through local subscriber networks

J.180 (05/00) User requirements for statistical multiplexing of several programmes on a transmission channel

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J.181 (03/01) Digital program insertion cueing message for cable television systems

27pp E 20918 F 20919 S 20920 17 CHF

Miscellaneous

J.181 (2001) Amendment 1 (04/03) New Appendix I: Recommended practices and interpretation guide

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J.182 (03/01) Parameter sets for analogue interface specifications for the interconnection of set-top-boxes and presentation devices in the home

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J.183 (03/01) Time division multiplexing of multiple MPEG-2 transport streams over cable television systems

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J.184 (03/01) Digital broadband delivery system: Out-of-band transport

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J.185 (02/02) Transmission equipment for transferring multi-channel television signals over optical access networks by FM conversion

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J.186 (02/02) Transmission equipment for multichannel television signals over optical access networks by sub-carrier multiplexing (SCM)

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J.187 (07/02) Transport mechanism for component-coded digital high-definition television signals using MPEG-2 video coding including all service elements for contribution and primary distribution

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J.187 (2002) Corrigendum 1 (04/03)

J.188 (07/02) A framework for an efficient parallel video transmission system including codecs with functions of failure detection and picture quality evaluation

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J.189 (07/02) Seamless splicing for MPEG-2 bit streams

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J.189 (2002) Corrigendum 1 (04/03)

J.190 (07/02) Architecture of MediaHomeNet that supports cable based services

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J.191 (03/04) IP feature package to enhance cable modems

To be published...

J.192 (03/04) A residential gateway to support the delivery of cable data services

To be published...

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J.200 (03/01) Worldwide common core – Application environment for digital interactive television services

30pp E 20736 F 20737 S 20738 17 CHF

J.200 (2001) Corrigendum 1 (05/04)

To be published...

Application for Interactive Digital Television

J.202 (05/03) Harmonization of procedural content formats for interactive TV applications

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J.280 (03/04) Digital Program Insertion: Splicing application programming interface

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Supplements to the Series J Recommendations

Suppl. 1 (11/98) Example of linking options between annexes of ITU-T Recommendation J.112 and annexes of ITU-T Recommendation J.83

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Suppl. 2 (11/98) 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

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Suppl. 3 (11/98) Guidelines for the implementation of Recommendation J.111 'Network independent protocols' – Example of Digital Video Broadcasting (DVB) systems for interactive services

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Suppl. 5 (09/99) Guidelines on the use of some ITU-T Recommendations in the J series

20pp E 18387 F 18387 S 18387 17 CHF

SERIES K

Protection against interference

K.1 (11/88) Withdrawn (10/96)

Connection to earth of an audio-frequency telephone line in cable

Deleted after its content became technically out of date Individually through the Electronic Bookshop:

K.2 (11/88) Withdrawn (10/96)

Protection of repeater power-feeding systems against interference from neighbouring electricity lines

Deleted after its content became technically out of date

Individually through the Electronic Bookshop:

K.3 (11/88) Withdrawn (10/96)

Interference caused by audio-frequency signals injected into a power distribution network

Deleted after its content became technically out of date Individually through the Electronic Bookshop:

K.4 (11/88) Withdrawn (10/96)

Disturbance to signalling

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K.5 (11/88) Joint use of poles for electricity distribution and for telecommunications

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K.6 (11/88) Precautions at crossings

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K.7 (11/88) Protection against acoustic shock

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K.8 (11/88) Separation in the soil between telecommunication cables and earthing system of power facilities

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K.9 (11/88) Protection of telecommunication staff and plant against a large earth potential due to a neighbouring electric traction line

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K.10 (10/96) Low frequency interference due to unbalance about earth of telecommunication equipment

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K.11 (10/93) Principles of protection against overvoltages and overcurrents

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K.12 (02/00) Characteristics of gas discharge tubes for the protection of telecommunications installations

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K.13 (11/88) Induced voltages in cables with plasticinsulated conductors

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K.14 (11/88) Provision of a metallic screen in plastic-sheathed cables

K.15 (11/88) Withdrawn (12/03)

Protection of remote-feeding systems and line repeaters against lightning and interference from neighbouring electricity lines

This Recommendation was deleted on 2003-12-12 since its content has been incoroporated in revised Recs K.44 and K.45 (07.2003)

Individually through the Electronic Bookshop: 20 CHF

K.16 (11/88) Withdrawn (09/01)

Simplified calculation method for estimating the effect of magnetic induction from power lines on remote-fed repeaters in coaxial pair telecommunication systems

Rec. K.16 was withdrawn because it deals only with calculation methods contained in the "Directives – Volum II: Calculating induced voltages and currents in practical cases" without giving any limit

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K.17 (11/88) Withdrawn (12/03)

Tests on power-fed repeaters using solid-state devices in order to check the arrangements for protection from external interference

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K.18 (11/88) Calculation of voltage induced into telecommunication lines from radio station broadcasts and methods of reducing interference

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K.19 (11/88) Joint use of trenches and tunnels for telecommunication and power cables

Individually through the Electronic Bookshop: 20 CHF

K.20 (07/03) Resistibility of telecommunication equipment installed in a telecommunications centre to overvoltages and overcurrents

28pp E 24586 F 24587 S 24588 17 CHF

K.20 (2003) Erratum 1 (01/04) Correction to table 7/K.20

K.21 (07/03) Resistibility of telecommunication equipment installed in costumer premises to overvoltages and overcurrents

24pp E 24589 F 24590 S 24591 17 CHF

K.21 (2003) Erratum 1 (01/04) Correction to table 7/K.21

K.22 (05/95) Withdrawn (12/03)

Overvoltage resistibility of equipment connected to an ISDN T/S bus

This Recommendation was deleted on 2003-12-12 since its requirements have been incoroporated in revised Rec K.21 (07.2003)

8pp E 6350 F 6351 S 6352 8 CHF

K.23 (11/88) Types of induced noise and description of noise voltage parameters for ISDN basic user networks

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K.27 (05/96) Bonding configurations and earthing inside a telecommunication building

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K.28 (03/93) Characteristics of semi-conductor arrester assemblies for the protection of telecommunications installations

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K.29 (01/92) Coordinated protection schemes for telecommunication cables below ground

4pp E 2606 F 2636 S 2667 8 CHF

K.30 (03/93) Positive temperature coefficient (PTc) thermistors

7pp E 4653 F 4652 S 4654 11 CHF

K.31 (03/93) Bonding configurations and earthing of telecommunication installations inside a subscriber's building

7pp E 4698 F 4697 S 4699 11 CHF

K.32 (05/95) Withdrawn (06/00)

Immunity requirements and test methods for electrostatic discharge to telecommunication equipment – Generic EMC Recommendation

The content of this Recommendation has been superseded by ITU-T K.43 (1998) and K.48 (2000)

8pp E 6347 F 6348 S 6349 8 CHF

K.33 (10/96) Limits for people safety related to coupling into telecommunications system from a.c. electric power and a.c. electrified railway installations in fault conditions
16pp E 10103 F 10104 S 10105 12 CHF

K.34 (07/03) Classification of electromagnetic environmental conditions for telecommunication equipment – Basic EMC Recommendation

23pp E 24668 F 24669 S 24670 17 CHF

K.35 (05/96) Bonding configurations and earthing at remote electronic sites

12pp E 7332 F 7333 S 7334 12 CHF

K.36 (05/96) Selection of protective devices

12pp E 7365 F 7366 S 7367 12 CHF

K.37 (02/99) Low and high frequency EMC mitigation techniques for telecommunication installations and systems – Basic EMC Recommendation

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K.38 (10/96) Radiated emission test procedure for physically large systems

12pp E 10583 F 10584 S 10585 12 CHF

K.39 (10/96) Risk assessment of damages to telecommunication sites due to lightning discharges

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K.40 (10/96) Protection against LEMP in telecommunications centres

16pp E 10758 F 10759 S 10760 12 CHF

K.41 (05/98) Withdrawn (12/03)

Resistibility of internal interfaces of telecommunication centres to surge overvoltages

This Recommendation was deleted on 2003-12-12 since its requirements have been added to revised Rec K.20 (07.2003)

12pp E 13574 F 13575 S 13576 12 CHF

K.42 (05/98) Preparation of emission and immunity requirements for telecommunication equipment – General principles

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K.43 (07/03) Immunity requirements for telecommunication equipment

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K.44 (07/03) Resistibility tests for telecommunication equipment exposed to overvoltages and overcurrents – Basic Recommendation

79pp E 24795 F 24796 S 24797 34 CHF

K.45 (07/03) Resistibility of telecommunication equipment installed in the access and trunk networks to overvoltages and overcurrents

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K.46 (07/03) Protection of telecommunication lines using metallic symmetric conductors against lightning induced surges

22pp E 24671 F 24672 S 24673 17 CHF

K.47 (12/00) Protection of telecommunication lines using metallic conductors against direct lightning discharges

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K.48 (07/03) EMC requirements for each telecommunication equipment – Product family Recommendation

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K.54 Erratum (08/02)

K.55 (08/02) Overvoltage and overcurrent requirements for insulation displacement connectors (IDC) terminations

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K.61 (09/03) Guidance to measurement and numerical prediction of electromagnetic fields for compliance with human exposure limits for telecommunication installations

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K.63 (02/04) Maintaining the suitability of production telecommunications equipment to its intended electromagnetic environment

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K.64 (02/04) Safe working practices for outside equipment installed in particular environments

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N.1 (03/93) Definitions for application to international sound-programme and television-sound transmission

8pp E 5169 F 5225 S 5260 11 CHF

N.2 (11/88) Different types of sound-programme circuit

Individually through the Electronic Bookshop: 20 CHF

N.3 (11/88) Control circuits

Individually through the Electronic Bookshop: 20 CHF

N.4 (11/88) Definition and duration of the line-up period and the preparatory period

Individually through the Electronic Bookshop: 20 CHF

N.5 (11/88) Sound-programme control, sub-control and send reference stations

Individually through the Electronic Bookshop: 20 CHF

N.10 (03/93) Limits for the lining-up of international sound-programme links and connections

6pp E 4038 F 4037 S 4039 8 CHF

N.11 (11/88) Essential transmission performance objectives for international sound-programme centres (ISPC)

N.12 (11/88) Measurements to be made during the line-up period that precedes a sound-programme transmission

Individually through the Electronic Bookshop: 20 CHF

N.13 (11/88) Measurements to be made by the broadcasting organizations during the preparatory period

Individually through the Electronic Bookshop: 20 CHF

N.15 (11/88) Maximum permissible power during an international sound-programme transmission

Individually through the Electronic Bookshop: 20 CHF

N.16 (11/88) Identification signal

Individually through the Electronic Bookshop: 20 CHF

N.17 (11/88) Monitoring the transmission

Individually through the Electronic Bookshop: 20 CHF

N.18 (11/88) Monitoring for charging purposes, releasing

Individually through the Electronic Bookshop: 20 CHF

N.21 (11/88) Limits and procedures for the lining-up of a sound-programme circuit

Individually through the Electronic Bookshop: 20 CHF

N.23 (11/88) Maintenance measurements to be made on international sound-programme circuits

Individually through the Electronic Bookshop: 20 CHF

International television transmission

N.51 (11/88) Definitions for application to international television transmissions

Individually through the Electronic Bookshop: 20 CHF

N.52 (11/88) Multiple destination television transmissions and coordination centres

Individually through the Electronic Bookshop: 20 CHF

N.54 (11/88) Definition and duration of the line-up period and the preparatory period

Individually through the Electronic Bookshop: 20 CHF

N.55 (03/93) 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

7pp E 4937 F 4936 S 4938 11 CHF

N.60 (03/93) Nominal amplitude of video signals at video interconnection points

3pp E 4237 F 4236 S 4238 8 CHF

N.61 (11/88) Measurements to be made before the line-up period that precedes a television transmission

Individually through the Electronic Bookshop: 20 CHF

N.62 (03/93) Tests to be made during the line-up period that precedes a television transmission

5pp E 4240 F 4239 S 4241 8 CHF

N.63 (11/88) Test signals to be used by the broadcasting organizations during the preparatory period

Individually through the Electronic Bookshop: 20 CHF

N.64 (11/88) Quality and impairment assessment

Individually through the Electronic Bookshop: 20 CHF

N.67 (03/93) Monitoring television transmissions – Use of the field blanking interval

12pp E 4284 F 4283 S 4285 11 CHF

N.73 (11/88) Maintenance of permanent international television circuits, links and connections

Individually through the Electronic Bookshop: 20 CHF

International videoconference transmission

N.81 (11/88) Withdrawn (03/99)

Definition for application to international videoconference transmissions

This subject had only been identified and was left for further study. Then it was abandonned and the empty Recommendation was deleted

Individually through the Electronic Bookshop:

N.86 (03/93) Withdrawn (03/99)

Line-up and service commissioning of international videoconference systems operating at transmission bit rates of 1544 and 2048 kbit/s

Deleted because no system or equipment have implemented it during the last two study periods

7pp E 4234 F 4233 S 4235 11 CHF

N.90 (03/93) Withdrawn (03/99)

Maintenance of international videoconference systems operating at transmission bit rates of 1544 and 2048 kbit/s

Deleted because no system or equipment have implemented it during the last two study periods

4pp E 4204 F 4203 S 4205 8 CHF

98

SERIES O

Specifications of measuring equipment

General

O.1 (02/00) Scope and application of measurement equipment specifications covered in the O-series Recommendations

32pp E 19819 F 19820 S 19821 17 CHF

O.3 (10/92) Climatic conditions and relevant tests for measuring equipment

4pp E 3453 F 3452 S 3454 8 CHF

O.6 (11/88) 1020 Hz reference test frequency

Individually through the Electronic Bookshop: 20 CHF

O.9 (03/99) Measuring arrangements to assess the degree of unbalance about earth

20pp E 16144 F 16145 S 16146 17 CHF

Maintenance access

O.11 (10/92) Maintenance access lines

7pp E 3392 F 3391 S 3393 8 CHF

Automatic and semi-automatic measuring systems

O.22 (10/92) CCITT automatic transmission measuring and signalling testing equipment ATME No. 2

32pp E 3613 F 3612 S 3614 15 CHF

O.25 (11/88) Withdrawn (03/93)

Semiautomatic in-circuit echo suppressor testing system (ESTS)

Deleted after its content became technically out of date

O.27 (11/88) In-station echo canceller test equipment

Individually through the Electronic Bookshop: 20 CHF

O.31 (11/88) Withdrawn (03/93)

Automatic measuring equipment for soundprogramme circuits

Deleted after its content became technically out of date

O.32 (11/88) Withdrawn (03/93)

Automatic measuring equipment for stereophonic pairs of sound-programme circuits

Deleted after its content became technically out of date

O.33 (07/95) Automatic equipment for rapidly measuring stereophonic pairs and monophonic sound-programme circuits, links and connections

12pp E 6175 F 6174 S 6176 11 CHF

Equipment for the measurement of analogue parameters

O.41 (10/94) Psophometer for use on telephone-type circuits

This Recommendation is also included but not published in P series under alias number P.53

13pp E 5921 F 5920 S 5922 11 CHF

O.42 (11/88) Equipment to measure non-linear distortion using the 4-tone intermodulation method

Individually through the Electronic Bookshop: 20 CHF

O.51 (11/88) Withdrawn (03/93)

Volume meters

O.51 was an alias name of ITU-T P.52. Only this alias name was suppressed. ITU-T P.52 remains valid

Individually through the Electronic Bookshop:

O.61 (11/88) Simple equipment to measure interruptions on telephone-type circuits

Individually through the Electronic Bookshop: 20 CHF

O.62 (11/88) Sophisticated equipment to measure interruptions on telephone-type circuits

Individually through the Electronic Bookshop: 20 CHF

O.71 (11/88) Impulsive noise measuring equipment for telephone-type circuits

This Recommendation is also included but not published in V series under alias number V.55

Individually through the Electronic Bookshop: 20 CHF

O.72 (10/84) Characteristics of an impulsive noise measuring instrument for wideband data transmissions

This Recommendation is published under alias number H 16

Individually through the Electronic Bookshop: 20 CHF

O.81 Appendix I Erratum (06/00) Erratum to Recommendation ITU-T O.81/Appendix I (06/98)

O.81 (11/88) Group-delay measuring equipment for telephone-type circuits

O.81 Appendix I (06/98) 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 0.81 without further modification.

8pp E 17234 F 17235 S 17236 9 CHF

O.82 (11/88) Group-delay measuring equipment for the range 5 to 600 kHz

Individually through the Electronic Bookshop: 20 CHF

O.91 (11/88) Phase jitter measuring equipment for telephone-type circuits

Individually through the Electronic Bookshop: 20 CHF

O.95 (11/88) Phase and amplitude hit counters for telephone-type circuits

Individually through the Electronic Bookshop: 20 CHF

O.111 (11/88) Frequency shift measuring equipment for use on carrier channels

Individually through the Electronic Bookshop: 20 CHF

Equipment for the measurement of digital and analogue/digital parameters

O.131 (11/88) Quantizing distortion measuring equipment using a pseudo-random noise test signal

Individually through the Electronic Bookshop: 20 CHF

O.132 (11/88) Quantizing distortion measuring equipment using a sinusoidal test signal

Individually through the Electronic Bookshop: 20 CHF

O.133 (03/93) Equipment for measuring the performance of PCM encoders and decoders

26pp E 5062 F 5061 S 5063 15 CHF

O.150 (05/96) General requirements for instrumentation for performance measurements on digital transmission equipment

20pp E 9625 F 9626 S 9627 17 CHF

O.150 (1996) Corrigendum 1 (05/02)

O.151 (10/92) Error performance measuring equipment operating at the primary rate and above

5pp E 3417 F 3416 S 3418 8 CHF

O.151 (1992) Corrigendum 1 (05/02)

O.152 (10/92) Error performance measuring equipment for bit rates of 64 kbit/s and N x 64 kbit/s

4pp E 3360 F 3359 S 3361 8 CHF

O.153 (10/92) Basic parameters for the measurement of error performance at bit rates below the primary rate

6pp E 3363 F 3362 S 3364 8 CHF

O.161 (11/88) In-service code violation monitors for digital systems

Individually through the Electronic Bookshop: 20 CHF

O.162 (10/92) Equipment to perform in-service monitoring on 2048, 8448, 34 368 and 139 264 kbit/s signals

7pp E 3546 F 3545 S 3547 8 CHF

O.163 (11/88) Equipment to perform in-service monitoring on 1544 kbit/s signals

Individually through the Electronic Bookshop: 20 CHF

O.171 (04/97) Timing jitter and wander measuring equipment for digital systems which are based on the plesiochronous digital hierarchy (PDH)

32pp E 11780 F 11781 S 11782 17 CHF

O.172 (03/01) Jitter and wander measuring equipment for digital systems which are based on the synchronous digital hierarchy (SDH)

52pp E 20616 F 20617 S 20617 22 CHF

O.172 (2001) Amendment 1 (03/03) Jitter and wander measuring equipment for digital systems which are based on the synchronous digital

hierarchy (SDH) Amendment 1

16pp E 23968 F 23969 S 23970 12 CHF

Equipment for the measurement of analogue parameters

O.173 (03/03) Jitter measuring equipment for digital systems which are based on the Optical Transport Network (OTN)

16pp E 23922 F 23923 S 23924 12 CHF

Equipment for the measurement of digital and analogue/digital parameters

O.181 (05/02) Equipment to assess error performance on STM-N interfaces

44pp E 22354 F 22355 S 22356 22 CHF

O.191 (02/00) Equipment to measure the cell transfer performance of ATM connections

72pp E 18055 F 18056 S 18057 34 CHF

O.201 (07/03) Q-factor test equipment to estimate the transmission performance of optical channels

29pp E 24734 F 24735 S 24736 17 CHF

SERIES P

Telephone transmission quality, telephone installations, local line networks

Vocabulary and effects of transmission parameters on customer opinion of transmission quality

P.10 (12/98) Vocabulary of terms on telephone transmission quality and telephone sets

36pp E 15511 F 15512 S 15513 22 CHF

P.10 (1998) Amendment 1 (11/03) New Annex A: List of psychoacoustic parameters

10pp E 24761 9 CHF

P.11 (03/93) Effect of transmission impairments

32pp E 4955 F 4954 S 4956 15 CHF

P.16 (11/88) Subjective effects of direct crosstalk; thresholds of audibility and intelligibility

Individually through the Electronic Bookshop: 20 CHF

Subscribers' lines and sets

P.32 (11/88) Evaluation of the efficiency of telephone booths and acoustic hoods

Individually through the Electronic Bookshop: 20 CHF

P.33 (11/88) Withdrawn (09/97)

Subscriber telephone sets containing either loudspeaking receivers or microphones associated with amplifiers

Deleted after the relevant information contained in this Recommendation was incorporated in new ITU-T P.340

Individually through the Electronic Bookshop:

P.38 (03/93) Transmission characteristics of operator telephone systems (OTS)

2pp E 4314 F 4313 S 4315 8 CHF

Transmission standards

P.48 (11/88) Specification for an intermediate reference system

Individually through the Electronic Bookshop: 20 CHF

Objective measuring apparatus

P.50 (09/99) Artificial voices

Covering note, May 2000: Erratum

20pp E 17581 F 17582 S 17583 17 CHF

P.50 Appendix I (02/98) Test signals

This Appendix includes an electronic attachment containing the speech database for telephonometry applications. Due to volume constraints, this database is only available on CD-ROM. The text of the appendix remains freely available on the ITU website for information purposes

62pp E 14057 F 14058 S 14059 29 CHF

Objective measuring apparatus

P.50 Erratum (05/00) Erratum to Recommendation ITU-T P.50 (09/99)

Objective measuring apparatus

P.51 (08/96) Artificial mouth

12pp E 9874 F 9875 S 9876 12 CHF

P.52 (03/93) Volume meters

3pp E 4275 F 4274 S 4276 8 CHF

P.53 (10/94) Psophometer for use on telephone-type circuits

This Recommendation is published under alias number 0.41

P.54 (11/88) Sound level meters (apparatus for the objective measurement of room noise)

Individually through the Electronic Bookshop: 20 CHF

P.55 (11/88) Apparatus for the measurement of impulsive noise

Individually through the Electronic Bookshop: 20 CHF

P.56 (03/93) Objective measurement of active speech level

Corresponding ANSI-C code is available in the SV56 module of the ITU-T G.191 Software Tools Library

12pp E 4704 F 4703 S 4705 11 CHF

P.57 (07/02) Artificial ears

34pp E 23108 F 23109 S 23110 17 CHF

P.58 (08/96) Head and torso simulator for telephonometry

36pp E 9654 F 9655 S 9656 22 CHF

P.58 Erratum 1 (01/03)

1pp E 108203 9 CHF

P.59 (03/93) Artificial conversational speech

4pp E 4584 F 4583 S 4585 8 CHF

ITU-T 05/04 - Series P 101

Objective electro-acoustical measurements

P.61 (11/88) Methods for the calibration of condenser microphones

Individually through the Electronic Bookshop: 20 CHF

P.62 (03/93) Withdrawn (06/98)

Measurements on subscribers' telephone equipment

P.62 is out of date and was deleted. The relevant text therein will be transferred to ITU-T P.35 during its revision

2pp E 4278 F 4277 S 4279 8 CHF

P.63 (11/88) Withdrawn (09/97)

Methods for the evaluation of transmission quality on the basis of objective measurements

As this Recommendation didn't contain technical description, but only references to other out of date Recommendations and Supplements, it became obsolete and was deleted

Individually through the Electronic Bookshop:

P.64 (09/99) Determination of sensitivity/frequency characteristics of local telephone systems

Covering note, May 2000: Erratum

28pp E 17464 F 17465 S 17466 17 CHF

P.64 Erratum (05/00) Erratum to Recommendation ITU-T P.64 (09/99)

P.65 (03/93) Withdrawn (06/98)

Objective instrumentation for the determination of loudness ratings

P.65 is out of date and was deleted. The relevant text therein was transferred to ITU-T P.64

5pp E 4587 F 4586 S 4588 8 CHF

P.66 (03/93) Withdrawn (08/96)

Methods for evaluating the transmission performance of digital telephone sets

Deleted after having been merged with P.31 into ITU-T P.310

Measurements related to speech loudness

P.75 (11/88) Standard conditioning method for handsets with carbon microphones

Individually through the Electronic Bookshop: 20 CHF

P.76 (11/88) Determination of loudness ratings; fundamental principles

Individually through the Electronic Bookshop: 20 CHF

P.78 (02/96) Subjective testing method for determination of loudness ratings in accordance with Recommendation P.76

20pp E 7209 F 7210 S 7211 17 CHF

P.79 (09/99) Calculation of loudness ratings for telephone sets

Covering note, May 2000: Erratum

Covering note, 24 October 2000: Corrigendum 1

36pp E 17584 F 17585 S 17586 22 CHF

P.79 Annex G (11/01) Wideband loudness rating algorithm

8pp E 22188 F 22189 S 22190 9 CHF

P.79 (1999) Corrigendum 1 (10/00)

P.79 (1999) Corrigendum 2 (05/01)

P.79 Erratum 1 (05/00) Erratum to Recommendation ITU-T P.79 (09/99)

Methods for objective and subjective assessment of quality

P.80/P.800 (08/96) Methods for subjective determination of transmission quality

Former Rec. P.80

P.82 (11/88) Method for evaluation of service from the standpoint of speech transmission quality

Individually through the Electronic Bookshop: 20 CHF

P.85 (06/94) A method for subjective performance assessment of the quality of speech voice output devices

9pp E 5585 F 5584 S 5586 11 CHF

Subscribers' lines and sets

P.300 (11/01) Transmission performance of group audio terminals (GATs)

20pp E 21681 F 21682 S 21683 12 CHF

Subscribers' lines and sets

P.310 (03/03) Transmission characteristics for telephone band (300-3400 Hz) digital telephones

31pp E 24263 F 24264 S 24265 17 CHF

P.311 (02/98) Transmission characteristics for wideband (150-7000 Hz) digital handset telephones

20pp E 13191 F 13192 S 13193 17 CHF

P.313 (09/99) Transmission characteristics for cordless and mobile digital terminals

24pp E 17593 F 17594 S 17595 17 CHF

P.330 (03/03) Speech processing devices for acoustic enhancement

18pp E 24149 F 24150 S 24151 12 CHF

P.330 (2003)	Amendn	nent 1 (09/	03)		Objective	measuring	annaratu	C		
` ′	E 24551	F 24552	S 24553	9 CHF	Objective	measuring	ирригии	S		
1pp P.340 (05/00			s 24555		P.561 (07/02) In-service non-intrusive measurementdevice – Voice service measurements				rements	
free teleph	,	111551011 C116	iracteristics	or manus-			F 23155		29 CHF	
44pp	E 19665	F 19666	S 19667	22 CHF	56pp	E 23134	Г 23133	5 25150	29 СПГ	
P.340 (2000)) Corriger	ndum 1 (03	3/04)		Objective measuring apparatus					
P.341 (02/98) Transmission characteristics for wideband (150-7000 Hz) digital hands-free					P.562 (05/00) Analysis and interpretation of INMD voice-services measurements					
telephony		, 0			58pp	E 19314	F 19315	S 19316	29 CHF	
20pp	E 13522	F 13523	S 13524	17 CHF		00) Use of			tor	
P.341 (1998)) Corriger	ndum 1 (09	9/99)		· · · · · · · · ·	for hands-fro		_		
P.342 (05/00					12pp	E 19492	F 19493	S 19494	12 CHF	
telephone and hands-			digital louds nals	speaking	Methods for objective and subjective assessment of quality					
20pp	E 19552	F 19553	S 19554	17 CHF	J 1 J					
P.350 (03/01) Handset dimensions – Formerly ITU-T P.35					P.800/P.80 (08/96) Methods for subjective determination of transmission quality					
12pp	E 20566	F 20567	S 20568	9 CHF	Former R	ec. P.80				
PP	22000	1 20007	5 20000	, 6111	36pp	E 9713	F 9714	S 9715	22 CHF	
P.360 (12/98) Efficiency of devices for preventing the occurrence of excessive acoustic pressure by telephone receivers					P.800.1 (03/03) Mean Opinion Score (MOS) terminology					
Former Rec	. P.36, reni	ımbered P.3	360		10pp	E 23960	F 23961	S 23962	9 CHF	
12pp	E 14550	F 14551	S 14552	12 CHF	P.810 (02/	96) Modul	ated noise	reference ui	nit	
P.370 (08/96 sets) Coupli	ing Hearing	g Aids to Te	lephone	(MNRU))				
Former Rec. P.37, renumbered P.370					Corresponding ANSI-C code is available in the MNRU module of the ITU-T G.191 Software Tools Library					
20pp	E 9944	F 9945	S 9946	17 CHF	12pp	E 7139	F 7140	S 7141	12 CHF	
P.380 (11/03) Electro-acoustic measurements on headsets					P.830 (02/96) Subjective performance assessment of telephone-band and wideband digital codecs					
12pp	E 24825			9 CHF	24pp	E 7163	F 7164	S 7165	17 CHF	
Objective measuring apparatus					P.831 (12/98) Subjective performance evaluation of network echo cancellers					
P.501 (05/00) Test si	gnals for u	se in telepho	onometry	32pp	E 15473	F 15474	S 15475	17 CHF	
			electronic att							
37pp	E 19888	F 19889	S 19890	72 CHF	of quality	for objective	e ana suoj	rective asse	essmeni	
P.501 Errat						00) Subjec	tive perfor	mance eval	uation of	
P.502 (05/00) Objective test methods for speech communication systems using complex test signals					28pp	E 19427	F 19428	S 19429	17 CHF	
64pp	E 20052	F 20053	S 20054	29 CHF	,	01) Methoo				

P.502 Erratum 1 (07/01) Erratum to Recommendation ITU-T P.502 (05/00)

17 CHF

equipment impairment factors from subjective

E 21045 F 21046 S 21047

listening-only tests

24pp

Methods for objective and subjective assessment of quality

P.834 (07/02) Methodology for derivation of equipment impairment factors from instrumental models

E 22974 F 22975 S 22976 67 CHF

Methods for objective and subjective assessment of quality

P.835 (11/03) Subjective test methodology for evaluating speech communication systems that include noise suppression algorithm

18pp E 24822 12 CHF

P.840 (11/03) Subjective listening test method for evaluating circuit multiplication equipment

Former ITU-T P.84

31pp E 24907 17 CHF

P.851 (11/03) Subjective quality evaluation of telephone services based on spoken dialogue systems

35pp E 25174 17 CHF

Methods for objective and subjective assessment of quality

P.861 (02/98) Withdrawn (07/01)

Objective quality measurement of telephone-band (300-3400 Hz) speech codecs

P.861 was recognized as having certain limitations in specific areas of application. It was replaced by P.862, which contains an improved objective speech quality assessment algorithm. P.861 included one diskette containing test vectors for implementation verification of the PSQM algorithm

40pp E 13580 F 13581 S 13582 62 CHF

Methods for objective and subjective assessment of quality

P.862 (02/01) Perceptual evaluation of speech quality (PESQ), an objective method for end-to-end speech quality assessment of narrowband telephone networks and speech codecs

30pp E 22134 F 22135 S 22136 67 CHF

Methods for objective and subjective assessment of quality

P.862 (2001) Amendment 1 (03/03) Revised Annex
 A: Source code for the reference implementation and conformance tests

E 24393 F 24394 S 24395 62 CHF

Methods for objective and subjective assessment of quality

P.862.1 (11/03) Mapping function for transforming P.862 raw result scores to MOS-LQO

10pp E 24951 9 CHF

Audiovisual quality in multimedia services

P.910 (09/99) Subjective video quality assessment methods for multimedia applications

36pp E 17681 F 17682 S 17683 22 CHF

P.911 (12/98) Subjective audiovisual quality assessment methods for multimedia applications

28pp E 15366 F 15367 S 15368 17 CHF

P.911 (1998) Corrigendum 1 (09/99)

P.920 (05/00) Interactive test methods for audiovisual communications

16pp E 19323 F 19324 S 19325 12 CHF

P.930 (08/96) Principles of a reference impairment system for video

36pp E 9736 F 9737 S 9738 22 CHF

P.931 (12/98) Multimedia communications delay, synchronization and frame rate measurement

48pp E 14613 F 14614 S 14615 22 CHF

Supplements to the Series P Recommendations

Suppl. 10 (11/88) Considerations relating to transmission characteristics for analogue handset telephones

20 CHF

Suppl. 16 (11/88) Guidelines for placement of microphones and loudspeakers in telephone conference rooms [1] and for Group Audio Terminals (GATs)

20 CHF

Suppl. 20 (03/93) Examples of measurements of handset receive-frequency responses: dependence on earcap leakage losses

5pp E 4844 F 4843 S 4845 8 CHF

Suppl. 23 (02/98) ITU-T coded-speech database

This Supplement includes 3 CD-ROMs containing the ITU-T coded speech database for 8 kbit/s codec tests. Due to the quantity of data, this publication is only available on CD-ROM. The text of the Supplement is freely available on ITU website for information purposes

10pp E 14061 F 14062 S 14063 9 CHF

SERIES O

Switching and signalling

Suppl. 9 (04/04) Technical Report TRQ.2000: Roadmap for the TRQ.2xxx-series Technical Reports

27pp E 25240 17 CHF

Suppl. 42 (03/04) Technical Report TRQ.2402:

Transport control signalling requirements – Signalling requiremnts for AAL type 2 Link control Capability Set 3

To be published...

Suppl. 43 (03/04) Technical Report TRQ.2415:

Transport control signalling requirements – Signalling requirements for IP connection control in radio access networks Capability Set 1

To be published...

Suppl. 44 (03/04) Technical Report TRQ.2800:

Transport control signalling requirements – Signalling requirements for AAL type 2 to IP interworking Capability Set 1

To be published...

Suppl. 45 (03/04) Technical Report TRQ.2815:

Requirements for interworking BICC/ISUP network with originating/destination networks based on Session Initiation Protocol and Session Description Protocol

34pp E 24839 22 CHF

Suppl. 46 (03/04) Technical Report TRQ.2830:

ATM-MPLS network interworking signalling requirements

22pp E 24512 F 24513 S 24514 17 CHF

Suppl. 47 (03/04) Emergency services for IMT-2000 networks – Requirements for harmonization and convergence

12pp E 24848 F 24849 9 CHF

Suppl. 48 (04/04) Guideline document for specifying API/object interface between network control and application layer

13pp E 25447 12 CHF

Suppl. 49 (04/04) Technical Report TRQ.2840: Signalling requirements to support IP telephony

To be published...

Suppl. 50 (04/04) Technical Report TRQ.2145: Requirements for a Narrowband Signalling Syntax (NSS)

To be published...

Q.1 (11/88) Signal receivers for manual working

Individually through the Electronic Bookshop: 20 CHF

Q.2 (11/88) Signal receivers for automatic and semiautomatic working, used for manual working

Individually through the Electronic Bookshop: 20 CHF

International automatic and semi-automatic working

Basic Recommendations

Q.4 (11/88) Automatic switching functions for use in national networks

Individually through the Electronic Bookshop: 20 CHF

Q.5 (11/88) Advantages of semi-automatic service in the international telephone service

Individually through the Electronic Bookshop: 20 CHF

Q.6 (11/88) Advantages of international automatic working

Individually through the Electronic Bookshop: 20 CHF

Q.7 (11/88) Signalling systems to be used for international automatic and semi-automatic telephone working

Individually through the Electronic Bookshop: 20 CHF

Q.8 (11/88) Signalling systems to be used for international manual and automatic working on analogue leased circuits

Q.9 (11/88) Vocabulary of switching and signalling terms

Individually through the Electronic Bookshop: 39 CHF

Numbering plan and dialling procedures in the international service

Q.10 (11/88) Withdrawn (03/93)

Definitions relating to national and international numbering plans

Deleted Q.10 was an extract of ITU-T E.160. E.160 was later replaced by ITU-T E.164

Individually through the Electronic Bookshop:

Q.11ter (11/88) Withdrawn (03/93)

Timetable for coordinated implementation of the full capability of the numbering plan for the ISDN era (Recommendation E.164)

Q.11 ter was an alias name of ITU-T E.165. Only this alias name was suppressed. ITU-T E.165 remains valid

Individually through the Electronic Bookshop: 20 CHF

Q.11 bis (08/91) Withdrawn (03/93)

Numbering plan for the ISDN era

Q.11 bis was an alias name of ITU-T E.164. Only this alias name was suppressed. ITU-T E.164 remains valid

Routing plan for international service

Q.12 (11/88) Overflow – alternative routing – rerouting – automatic repeat attempt

Individually through the Electronic Bookshop: 20 CHF

O.13 (11/88) Withdrawn (03/93)

International telephone routing plan

Q.13 was an alias name of ITU-T E.171. Only this alias name was suppressed. ITU-T E.171 remains valid

Individually through the Electronic Bookshop:

Q.14 (11/88) Means to control the number of satellite links in an international telephone connection

Individually through the Electronic Bookshop: 20 CHF

Q.15 (11/88) Withdrawn (03/93)

Nominal mean power during the busy hour

Deleted Q.15 was an extract of ITU-T G.223. ITU-T G.223 remains valid

Individually through the Electronic Bookshop:

Q.16 (11/88) Withdrawn (03/93)

Maximum permissible value for the absolute power level of a signalling pulse

Q.16 was an alias name of ITU-T G.224. Only this alias name was suppressed. ITU-T G.224 remains valid

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General Recommendations relative to signalling and switching systems (national or international)

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Q.30 (11/88) Improving the reliability of contacts in speech circuits

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Q.31 (11/88) Noise in a national 4-wire automatic exchange

Q.32 (11/88) Reduction of the risk of instability by switching means

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Q.33 (11/88) Protection against the effects of faulty transmission on groups of circuits

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International operation

Tones in national signalling systems

Q.35/E.180 (03/98) Technical characteristics of tones for the telephone service

This Recommendation is published with the double number E.180 and Q.35

16pp E 13110 F 13111 S 13112 12 CHF

International automatic and semi-automatic working

Tones for use in national signalling systems

Q.36 (11/88) Withdrawn (03/93)

Customer recognition of foreign tones

Q.36 was an alias name of ITU-T E.181. Only this alias name was suppressed. ITU-T E.181 remains valid

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General characteristics for international telephone connections and circuits

Q.40 (11/88) Withdrawn (03/93)

The transmission plan

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Q.41 (11/88) Withdrawn (03/93)

Mean one-way propagation time

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Individually through the Electronic Bookshop:

Q.42 (11/88) Withdrawn (03/93)

Stability and echo (echo suppressors)

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Q.43 (11/88) Withdrawn (03/93)

Transmission losses, relative levels

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Q.44 (11/88) Attenuation distortion

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Q.45 (10/84) Transmission characteristics of an analogue international exchange

Electronic Bookshop only

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Q.45 *bis* (11/88) Transmission characteristics of an analogue international exchange

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Signalling for satellite systems

Q.48 (11/88) Demand assignment signalling systems *Individually through the Electronic Bookshop:* 20 CHF

Q.49 (10/92) Withdrawn (03/93)

CCITT automatic transmission measuring and signalling testing equipment ATME No. 2

Q.49 was an alias name of ITU-T 0.22. Only this alias name was suppressed. ITU-T 0.22 remains valid

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Signalling for circuit multiplication equipment

Q.50 (07/01) Signalling between Circuit Multiplication Equipment (CME) and International Switching Centres (ISC)

27pp E 21781 F 21782 S 21783 17 CHF

Q.50.1 (07/01) Signalling between international switching centres (ISC) and digital circuit multiplication equipment (DCME) including the control of compression/decompression

20pp E 21809 F 21810 S 21811 12 CHF

Q.50.2 (12/02) Signalling between International Switching Centres (ISC) and Digital Circuit Multiplication Equipment (DCME) including the control of compression/decompression over an IP network

19pp E 23854 F 23855 S 23856 12 CHF

Q.52 (03/01) Signalling between international switching centres and stand-alone echo control devices

14pp E 20563 F 20564 S 20565 12 CHF

Q.55 (12/99) Signalling between signal processing network equipment (SPNE) and international switching centres (ISC)

64pp E 19561 F 19562 S 19563 29 CHF

Q.56 (05/01) Signalling between signal processing network equipment (SPNE) and international switching centres (ISC) over an IP network

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Methodology

Q.65 (06/00) The unified functional methodology for the characterization of services and network capabilities

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Q.72 (03/93) Stage 2 description for packet mode services

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Q.76 (02/95) Service procedures for Universal Personal Telecommunication – Functional modelling and information flows

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Supplementary services

Q.80 (11/88) Introduction to stage 2 service descriptions for supplementary services

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Q.81 Stage 2 description for number identification supplementary services

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Q.81.5 (09/91) Connected line identification, presentation and restriction (COLP) and (COLR)

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Q.81.7 (06/97) Malicious call identification (MCID)

This subject was only recognised and is for further study

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Q.81.8 (02/92) Sub-addressing (SUB)

Published with ITU-T Q.81.2.

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Q.82 Stage 2 description for call offering supplementary services

Q.82.1 (11/88) Call transfer

Empty Recommendation. This subject was only recognised and is for further study.

Q.82.2 (03/93) Call forwarding

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Q.82.3 (03/93) Call deflection

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Q.82.4 (11/88) Line hunting

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Q.82.7 (07/96) Explicit call transfer

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Q.83 Stage 2 description for call completion supplementary services

Q.83.1 (09/91) Call waiting (CW)

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Q.83.3 (11/88) Stage 2 description for call completion supplementary services: Completion of call to busy subscriber

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Q.83.4 (09/91) Terminal portability

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Q.84 Stage 2 description for multiparty supplementary services

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Q.735.6 (0 (GVNS)		bal Virtual	Network Se	ervice	56pp	E 11942	F 11943		
24pp	E 10691	F 10692	S 10693	17 CHF	function	'97) Signa' s MRVT, SF ASE-user			
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Q.736.1 (1	System No. 7 Q.736.1 (10/95) International Telecommunication				Q.754 (06/97) Signalling System No. 7 management Application Service Element (ASE) definitions				
20pp	Card (ITCC) E 6760	F 6761	S 6762	17 CHF	48pp	E 11991	F 11992	S 11993	22 CHF
Q.736.3 (1	.0/95) Rev	erse charg	ing (REV)		Q.755 (03/	/ 93) Signal	lling Syste	m No. 7 pro	tocol tests
36pp	E 6691	F 6692	S 6693	20 CHF	10pp	E 4638	F 4637	S 4639	11 CHF
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	information transfer supplementary services using Signalling System No. 7				44pp	E 13724	F 13725	S 13726	22 CHF
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Data user	· part				24pp	E 12496	F 12497	S 12498	17 CHF
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Signalling System No. 7 management

Q.733.4 (03/93) Terminal portability (TP)

Published with ITU-T Q.733.2.

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	/ 99) Signalling Sy	stem No. 7 – I	SDN User	Applicat	(12/99) Signon Transport and Test P	rt Mechan	ism: Test Si	
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7pp	E 23745 F 2374		9 CHF	28pp	E 20064	F 20065	S 20066	1
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Q.763 (1999) Corrigendum 1 (07/01)

Part signalling procedures

108pp

16pp

10pp

11pp

Q.764 (12/99) Signalling System No. 7 – ISDN User

E 19701 F 19702 S 19703

S 21723

Q.764 (1999) Amendment 1 (07/01) Amendment 1

Q.764 (1999) Amendment 2 (12/02) Support for the International Emergency Preference Scheme

E 23770 F 23771 S 23772

E 21721 F 21722

Q.764 (1999) Amendment 3 (04/04)

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9 CHF

Signalling system No. 7 – Application chanism E 19611 F 19612 S 19613 22 CHF 3) Signalling System No. 7 – transport mechanism: Support of VPN with PSS1 information flows E 14421 F 14422 S 14423 29 CHF 2/99) Abstract test suite for the APM PN applications endation includes an electronic attachment ATS for ISUP'97 for APM support of VPN ocessable form and in pdf form E 19580 F 19581 S 19582 67 CHF 999) Amendment 1 nendment: Abstract test suite for the t of VPN applications E 21507 12 CHF Managed objects for diagnostic of public switched telephone network -series modem DCE's E 19934 F 19935 S 19936 22 CHF Managed objects for diagnostic of public switched telephone network -series modem DCE's E 20064 F 20065 S 20066 17 CHF) Amendment 1 (07/01) Bearer Call Control Capability Set 2 20pp E 21818 F 21819 S 21820 12 CHF Q.766 (03/93) Performance objectives in the integrated services digital network application F 4852 8 CHF 4pp E 4853 S 4854 Q.767 (02/91) Application of the ISDN user part of CCITT signalling system No. 7 for international ISDN interconnections 271pp E 2334 F 2312 S 2356 65 CHF Q.767 (1991) Amendment 1 (12/02) 8pp E 23780 F 23783 S 23784 9 CHF ITU-T 05/04 - Series Q 121

17 CHF

Q.768 (10/95) Signalling interface between an Q.784 ISUP basic call test specification international switching centre and an ISDN satellite subnetwork Q.784 Annex A (03/93) TTCN version of Recommendation Q.784 E 7006 F 7007 S 7008 **29 CHF** 52pp 135pp E 5165 F 5223 S 5258 47 CHF **Q.769.1 (12/99)** Signalling system No. 7 – ISDN user part enhancements for the support of number Q.784.1 (07/96) Validation and compatibility for portability ISUP'92 and O.767 protocols 20pp E 17788 F 17789 S 17787 17 CHF E 10592 F 10593 144pp S 10594 55 CHF Transaction capabilities application part Q.784.1 (1996) Corrigendum 1 (12/99) Q.771 (06/97) Functional description of transaction capabilities Q.784.2 (06/97) Abstract test suite for ISUP'92 basic call control procedures E 12403 F 12404 S 12405 22 CHF 36pp This Recommendation includes one diskette containing Annex D ISUP'92 ATS for basic call in graphical and in Q.772 (06/97) Transaction capabilities information machine processable form. element definitions 96pp E 13023 F 13029 S 13030 79 CHF E 12321 F 12322 S 12323 12 CHF 12pp Q.784.3 (12/99) ISUP'97 basic call control Q.773 (06/97) Transaction capabilities formats and procedures – Test suite structure and test purposes encoding (TSS & TP) 36pp E 12406 F 12407 S 12408 22 CHF This Recommendation includes an electronic attachment containing the ATS for ISUP'97 basic call control procedures in machine processable form and in pdf form Q.774 (06/97) Transaction capabilities procedures 92pp E 19534 F 19535 S 19536 89 CHF E 12388 F 12389 S 12390 29 CHF 64pp Q.784.3 (1999) Amendment 1 (12/00) Q.775 (06/97) Guidelines for using transaction Amendment 1 capabilities E 11938 F 11939 S 11940 29 CHF E 21515 17 CHF 64pp 26pp Q.785 (09/91) ISUP protocol test specification for Test specification supplementary services Q.780 (10/95) Signalling System No. 7 test 49pp E 2346 F 2324 S 2368 21 CHF specification – General description Q.785.2 (03/99) ISUP'97 supplementary services – E 6914 F 6915 S 6916 15 CHF 16pp Test suite structure and test purposes (TSS & TP) Q.781 (04/02) MTP level 2 test specification This Recommendation includes one CD-ROM containing the ISUP'97 ATS for supplementary services in machine E 22514 F 22515 S 22516 44 CHF 110pp processable form and in graphical form. E 17285 F 17286 S 17287 249 CHF 332pp Q.782 (04/02) MTP level 3 test specification E 22584 F 22585 S 22586 61 CHF 152pp Q.785.2 (1999) Amendment 1 (12/00) Amendment 1: New Appendix I – Additional test configuration for ISUP'97 supplementary services Q.783 (11/88) TUP test specification

39 CHF

E 21588 F 21589

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62 CHF

Individually through the Electronic Bookshop:

Q.785.2 Erratum 1 (02/02) Erratum to Recommendation ITU-T Q.785.2 (03/1999)

This Erratum includes an electronic attachment containing the ISUP'97 ATS for Supplementary Services version 12/1999

Q.786 (03/93) SCCP test specification

50pp E 4296 F 4295 S 4297 24 CHF

Q.787 (09/97) Transaction Capabilities (TC) test specification

320pp E 13116 F 13117 S 13118 124 CHF

Q.788 (06/97) User-network-interface to usernetwork-interface compatibility test specifications for ISDN, non-ISDN and undetermined accesses interworking over international ISUP

240pp E 12245 F 12246 S 12247 96 CHF

Q.795 (11/88) Withdrawn (03/93)

Operations, Maintenance and Administration Part (OMAP)

The content of this Recommendation is now covered by ITU-T Q.75x series

Individually through the Electronic Bookshop:

Q3 interface

Q.811 (06/97) Lower layer protocol profiles for the Q3 and X interfaces

56pp E 11958 F 11959 S 11960 29 CHF

Q3 interface

Q3 interface

Q.811 (02/04) Lower layer protocol profiles for the Q and X interfaces

To be published...

Specifications of Signalling System No. 7

Q.812 (06/97) Upper layer protocol profiles for the Q3 and X interfaces

24pp E 11961 F 11962 S 11963 17 CHF

Q3 interface

Q3 interface

Q.812 (02/04) Upper layer protocol profiles for the Q and X interfaces

To be published...

Specifications of Signalling System No. 7

Q.812 (1997) Amendment 1 (03/99) Additional X interface protocols for the service management layer (SML)

8pp E 15892 F 15893 S 15894 9 CHF

Q.812 Appendix I (03/99) Guidance on using allomorphic management

24pp E 15757 F 15758 S 15759 17 CHF

Q.813 (06/98) Security Transformations Application Service Element for Remote Operations Service Element (STASE-ROSE)

68pp E 14465 F 14466 S 14467 34 CHF

Q.814 (02/00) Specification of an electronic data interchange interactive agent

24pp E 19182 F 19183 S 19184 17 CHF

Q.815 (02/00) Specification of a security model for whole message protection

20pp E 19191 F 19192 S 19193 17 CHF

Q.816 (01/01) CORBA-based TMN services

80pp E 20532 F 20533 S 20534 34 CHF

Q.816 (2001) Amendment 1 (08/01) OMG services profile

16pp E 21570 F 21571 S 21572 12 CHF

Q.816 (2001) Amendment 2 (05/02) User guide for local name resolution

9pp E 22455 F 22456 S 22457 9 CHF

Q.816 (2001) Corrigendum 1 (08/01)

Q3 interface

Q3 interface

Q.816 (2001) Corrigendum 2 (08/02)

Specifications of Signalling System No. 7

Q3 interface

Q.816.1 (08/01) CORBA based TMN services: Extensions to support coarse-grained interfaces

36pp E 21895 F 21896 S 21897 17 CHF

Q.817 (01/01) TMN PKI – Digital certificates and certificate revocation lists profiles

18pp E 20443 F 20444 S 20445 12 CHF

Q3 interface – Alarm Surveillance (ISDN) teleservices E 20084 F 20085 S 20086 34 CHF 84pp E 6515 F 6516 S 6517 11 CHF 12pp **Q.821.1 (09/01)** CORBA-based TMN alarm Q.824.5 (10/97) Configuration management of surveillance service V5 interface environments and associated customer profiles E 21736 F 21737 S 21738 39 CHF 100pp 112pp E 12562 F 12563 S 12564 44 CHF **Q.822 (04/94)** Stage 1, stage 2 and stage 3 description for the Q3 interface - Performance Q.824.5 (1997) Corrigendum 1 (02/00) management E 5308 F 5295 S 5318 24 CHF Q.824.6 (06/98) Broadband switch management 47pp E 14311 F 14312 S 14313 124pp 49 CHF Q3 interface Q.824.7 (02/00) Enhanced Broadband Switch E 19875 F 19876 S 19877 17 CHF 32pp Q3 interface Q.825 (06/98) Specification of TMN applications at Q.822 (1994) Amendment 1 (03/03) Generic the Q3 interface: Call detail recording transport performance management E 14214 F 14215 S 14216 39 CHF E 23821 F 23822 S 23824 12 CHF 13pp Q.826 (02/00) Stage 2 and Stage 3 Functional **Specifications of Signalling System No. 7** Specification of Call Routing Information Management on Operation System/Network Element Q.822.1 (10/01) CORBA-based TMN performance (OS/NE) Interface management service 144pp E 19915 F 19916 S 19917 55 CHF F 22225 22 CHF E 22224 S 22226 52pp Q.831 (10/97) Fault and performance management of Q.822.1 (2001) Amendment 1 (03/03) Generic V5 interface environments and associated customer transport performance management profiles E 23994 F 23995 S 23996 17 CHF 22pp 52pp E 12478 F 12479 S 12480 29 CHF Q.823 (07/96) Stage 2 and Stage 3 functional Q.831 (1997) Corrigendum 1 (03/01) specifications for traffic management E 10522 F 10523 S 10524 112pp 44 CHF Q.831.1 (02/00) Access Management for V5 E 19801 F 19802 S 19803 29 CHF 56pp Q.823.1 (10/97) Management Conformance Statement Proformas **Q.832.1 (06/98)** VB5.1 Management E 12525 F 12526 S 12527 96 CHF 292pp E 14146 F 14147 S 14148 29 CHF 52pp Q.824 Stages 2 and 3 description for the Q3 Q.832.1 (1998) Corrigendum 1 (03/01) interface - Customer administration Q.832.2 (03/99) VB5.2 Management Q.824.0 (10/95) Common information E 15898 F 15899 S 15900 **22 CHF** 40pp E 6763 F 6764 S 6765 **29 CHF** 52pp **O.832.3 (01/01)** Broadband access coordination Q.824.1 (10/95) Integrated Services Digital Network (ISDN) basic and primary rate access E 20717 F 20718 S 20719 29 CHF E 6782 F 6783 S 6784 34 CHF 72pp Q.833.1 (01/01) Asymmetric digital subscriber line (ADSL) - Network element management: CMIP Q.824.2 (10/95) Integrated Services Digital Network model (ISDN) supplementary services S 21406 22 CHF 52pp E 21404 F 21405 E 6704 F 6705 S 6706 15 CHF 32pp Q.834.1 (04/01) ATM-PON requirements and Q.824.3 (10/95) Integrated Services Digital Network managed entities for the network element view (ISDN) optional user facilities S 6756 12 CHF 144pp E 21656 F 21657 S 21658 55 CHF 16pp E 6754 F 6755

Q.824.4 (10/95) Integrated Services Digital Network

Q.821 (02/00) Stage 2 and Stage 3 description for the

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Q.834.2 (04/01) ATM PON requirements and managed entities for the network view

58pp E 20714 F 20715 S 20716 29 CHF

Q.834.3 (11/01) A UML description for management interface requirements for broadband Passive Optical Networks

170pp E 22545 F 22546 S 22547 73 CHF

Q.834.4 (07/03) A CORBA interface specification for Broadband Passive Optical Networks based on UML interface requirements

194pp E 24910 73 CHF

Q3 interface

O3 interface

Q.834.4 (2003) Amendment 1 (01/04)

To be published...

Q.834.4 (2003) Corrigendum 1 (01/04)

To be published...

Specifications of Signalling System No. 7

Q.835 (03/99) Line and line circuit test management of ISDN and analogue customer accesses

76pp E 16164 F 16166 S 16167 34 CHF

Q.835 (1999) Corrigendum 1 (03/01)

Corrigendum 1 to Recommendation Q.835

Q.836.1 (02/00) SSF management information model

68pp E 19162 F 19166 S 19168 29 CHF

Q3 interface

Q3 interface

Q.837.1 (02/04) SDH-DLC functional requirements for the network and network element views

26pp E 25545 17 CHF

Digital subscriber Signalling System No. 1

General

Q.850 (05/98) Usage of cause and location in the Digital Subscriber Signalling System No. 1 and the Signalling System No. 7 ISDN User Part

32pp E 14218 F 14219 S 14220 17 CHF

Q.850 Addendum 1 (06/00) Addendum 1

4pp E 19704 F 19705 S 19706 9 CHF

General

Q.850 (1998) Amendment 1 (07/01) Usage of cause and location in the Digital Subscriber Signalling System No. 1 (DSS1) and the Signalling System No. 7 ISDN user part (ISUP)

8pp E 21579 F 21580 S 21581 9 CHF

General

Q.860 (06/00) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE's

36pp E 20009 F 20010 S 20011 17 CHF

Data link layer

Q.920 (03/93) 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

20pp E 4353 F 4352 S 4354 15 CHF

Q.920 (1993) Amendment 1 (06/00)

10pp E 19680 F 19681 S 19682 9 CHF

Q.921 *bis* **(03/93)** 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.

10pp E 10162 F 10163 S 10164 111 CHF

Q.921 (09/97) ISDN user-network interface – Data link layer specification

This Recommendation is also included but not published in I series under alias number I.441.

268pp E 13327 F 13328 S 13329 96 CHF

Q.921 (1997) Amendment 1 (06/00)

16pp E 19524 F 19525 S 19526 12 CHF

Q.922 (02/92) ISDN data link layer specification for frame mode bearer services

109pp E 2808 F 2770 S 2843 38 CHF

Q.923 (02/95) Specification of a synchronization and coordination function for the provision of the OSI connection-mode network service in an ISDN environment

28pp E 6033 F 6032 S 6034 15 CHF

Network layer

Q.930 (03/93) ISDN user-network interface layer 3 – General aspects

This Recommendation is also included but not published in I series under alias number I.450

3pp E 4997 F 4996 S 4998 8 CHF

Q.931 (05/98) 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

344pp E 15605 F 15606 S 15607 124 CHF

Q.931 (1998) Amendment 1 (12/02) Extensions for the support of digital multiplexing equipment

24pp E 23874 F 23875 S 23876 17 CHF

Q.931 (1998) Erratum 1 (02/03)

Q.932 (05/98) 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.

124pp E 14512 F 14513 S 14514 49 CHF

Q.932 (1998) Amendment 1 (06/00)

24pp E 19590 F 19591 S 19592 17 CHF

Q.933 bis (10/95) 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.

8pp E 13374 F 13377 S 13378 49 CHF

Q3 interface

Q3 interface

Q.933 (02/03) Digital Subscriber Signalling System No. 1 (DSS 1) – Signalling specifications for frame mode switched and permanent virtual connection control and status monitoring

44pp E 24051 F 24052 S 24053 22 CHF

Digital subscriber Signalling System No. 1

Q.939 (03/93) Typical DSS 1 service indicator codings for ISDN telecommunications services

49pp E 5017 F 5016 S 5018 24 CHF

User-network management

Q.940 (11/88) ISDN user-network interface protocol for management – General aspects

Individually through the Electronic Bookshop: 20 CHF

Q.941 (03/93) ISDN user-network interface protocol profile for management

9pp E 4458 F 4457 S 4459 11 CHF

Stage 3 description for supplementary services using DSS1

Q.950 (06/00) Supplementary services protocols, structure and general principles

28pp E 19596 F 19597 S 19598 17 CHF

Q.951 Stage 3 description for number identification supplementary services using DSS 1

Q.951.1 (02/92) Direct-dialling-in (DDI)

Q.951 parts 1, 2 and 8 published together

4pp E 2613 F 2643 S 2674 11 CHF

Q.951.2 (02/92) Multiple subscriber number (MSN)

Q.951 parts 1, 2 and 8 published together

5pp E 2613 F 2643 S 2674 11 CHF

Q.951.3 (03/93) Calling line identification presentation

Q.951 parts 3-6 published together

13pp E 5026 F 5025 S 5027 20 CHF

Q.951.4 (03/93) Calling line identification restriction *Q.951 parts 3-6 published together*

6pp E 5026 F 5025 S 5027 20 CHF

Q.951.5 (03/93) Connected line identification presentation

Q.951 parts 3-6 published together

14pp E 5026 F 5025 S 5027 20 CHF

Q.951.6 (03/93) Connected line identification restriction

Q.951 parts 3-6 published together

6pp E 5026 F 5025 S 5027 20 CHF

Q.951.7 (06/97) Malicious Call Identification (MCID)

16pp E 11919 F 11920 S 11921 12 CHF

Q.951.8 (02/92) Sub-addressing (SUB)

Q.951 parts 1, 2 and 8 published together

5pp E 2613 F 2643 S 2674 11 CHF

Q.952 (03/93) Stage 3 description for call offering supplementary services using DSS 1 – Diversion supplementary services

66pp E 5092 F 5091 S 5093 29 CHF

Q.952.7 (06/97) Stage 3 description for call offering supplementary services using DSS 1 – Explicit Call Transfer (ECT)

52pp E 11967 F 11968 S 11969 29 CHF

Q.953 ISDN stage 3 description for call completion supplementary services using DSS 1

Q.953.1 (02/92) Call waiting

11pp E 2616 F 2647 S 2678 11 CHF

Q.953.2 (03/93) Call hold

17pp E 4934 F 4933 S 4935 15 CHF

Q.953.3 (06/97) Completion of Calls to Busy Subscribers (CCBS)

104pp E 12409 F 12410 S 12411 44 CHF

Q.953.4 (10/95) Terminal Portability (TP)

12pp E 6904 F 6906 S 6905 12 CHF

Q.953.5 (12/99) 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.

88pp E 17711 F 17712 S 17713 79 CHF

Q.954 Stage 3 description for multiparty supplementary services using DSS 1

Q.954.1 (03/93) Conference calling

Covering note, June 1999: Information note

43pp E 5065 F 5064 S 5066 24 CHF

Q.954.2 (10/95) Three-party (3PTY)

36pp E 7120 F 7121 S 7122 22 CHF

Q.955 Stage 3 description for community of interest supplementary services using DSS 1

Q.955.1 (02/92) Stage 3 description for community of interest supplementary services using DSS 1: Closed user group

21pp E 2619 F 2650 S 2681 17 CHF

Q.955.3 (03/93) Multi-level precedence and preemption (MLPP)

59pp E 5080 F 5079 S 5081 24 CHF

Q.956 Stage 3 description for charging supplementary services using DSS 1

Q.956.2 (10/95) Advice of charge

52pp E 6688 F 6689 S 6690 25 CHF

Q.956.3 (10/95) Reverse charging

36pp E 6506 F 6507 S 6508 20 CHF

Q.957 Stage 3 description for additional information transfer supplementary services using DSS 1

Q.957.1 (07/96) User-to-User Signalling (UUS)

36pp E 10730 F 10731 S 10732 22 CHF

Public Land Mobile Network

General

O.1000 (11/88) Withdrawn (12/03)

Structure of the Q.1000-Series Recommendations for public land mobile networks

This Recommendation was deleted on 24/12/2003 since it has become obsolete, due to the evolution of the work on mobile networks

Individually through the Electronic Bookshop: 20 CHF

Q.1001 (11/88) General aspects of public land mobile networks

Individually through the Electronic Bookshop: 20 CHF

Q.1002 (11/88) Withdrawn (12/03)

Network functions

This Recommendation was deleted on 24/12/2003 since it has become obsolete, due to the evolution of the work on mobile networks

Individually through the Electronic Bookshop: 20 CHF

Q.1003 (11/88) Withdrawn (12/03)

Location registration procedures

This Recommendation was deleted on 24/12/2003 since it has become obsolete, due to the evolution of the work on mobile networks

Individually through the Electronic Bookshop: 20 CHF

O.1004 (11/88) Withdrawn (12/03)

Location register restoration procedures

This Recommendation was deleted on 24/12/2003 since it has become obsolete, due to the evolution of the work on mobile networks

Individually through the Electronic Bookshop: 20 CHF

Q.1005 (11/88) Withdrawn (12/03)

Handover procedures

This Recommendation was deleted on 24/12/2003 since it has become obsolete, due to the evolution of the work on mobile networks

Individually through the Electronic Bookshop: 22 CHF

Interworking with ISDN and PSTN

Q.1031 (11/88) Withdrawn (12/03)

General signalling requirements on interworking between the ISDN or PSTN and the PLMN

Formerly Q.70 (1984). This Recommendation was deleted on 24/12/2003 since it has become obsolete, due to the evolution of the work on mobile networks

Individually through the Electronic Bookshop: 20 CHF

Q.1032 (11/88) Withdrawn (12/03)

Signalling requirements relating to routing of calls to mobile subscribers

This Recommendation was deleted on 24/12/2003 since it has become obsolete, due to the evolution of the work on mobile networks

Individually through the Electronic Bookshop: 20 CHF

Mobile Application Part

Q.1051 (11/88) Withdrawn (03/93)

Mobile application Part

This Recommendation was made for second generation of mobile systems. For this generation, three specifications have been developed by regional standards organizations. These implementations were complying with the philosophy of intentions of the Q.1000-Series of Recommendations, but they were modified and enhanced to include new functions and to handle regional network dependant features. These regional specifications supersede ITU-T Q.1051 (1988)

Individually through the Electronic Bookshop:

Digital PLMN user-network interfaces

Q.1061 (11/88) Withdrawn (12/03)

General aspects and principles relating to digital PLMN access signalling reference points

This Recommendation was deleted on 24/12/2003 since it has become obsolete, due to the evolution of the work on mobile networks

Individually through the Electronic Bookshop: 20 CHF

Q.1062 (11/88) Withdrawn (12/03)

Digital PLMN access signalling reference configurations

This Recommendation was deleted on 24/12/2003 since it has become obsolete, due to the evolution of the work on mobile networks

Individually through the Electronic Bookshop: 20 CHF

Q.1063 (11/88) Withdrawn (12/03)

Digital PLMN channel structures and access capabilities at the radio interface (Um reference point)

This Recommendation was deleted on 24/12/2003 since it has become obsolete, due to the evolution of the work on mobile networks

Individually through the Electronic Bookshop: 20 CHF

Interworking with satellite mobile systems

Interworking with Standard-A INMARSAT system

Q.1100 (03/93) Structure of the Recommendations on the INMARSAT mobile satellite systems

2pp E 4075 F 4074 S 4076 8 CHF

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Q.1112 (03/93) Procedures for interworking between INMARSAT Standard-B system and the international public switched telephone network/ISDN

57pp E 4677 F 4676 S 4678 24 CHF

Interworking with the INMARSAT aeronautical mobile-satellite system

Q.1151 (03/93) Interfaces for interworking between the INMARSAT aeronautical mobile-satellite system and the international public switched telephone network/ISDN

20pp E 4356 F 4355 S 4357 15 CHF

Q.1152 (03/93) Procedures for interworking between INMARSAT aeronautical mobile satellite system and the international public switched telephone network/ISDN

55pp E 4464 F 4463 S 4465 24 CHF

Intelligent Network

Q.1200 (09/97) General series Intelligent Network Recommendation structure

12pp E 14314 F 14315 S 14316 12 CHF

Q.1201/I.312 (10/92) Principles of intelligent network architecture

This Recommendation is published with the double number Q.1201 and I.312

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Q.1202/I.328 (09/97) Intelligent network – Service plane architecture

This Recommendation is published with the double number Q.1202 and I.328

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Q.1203/I.329 (09/97) 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

16pp E 12911 F 12912 S 12913 12 CHF

Q.1204 (03/93) Intelligent network distributed functional plane architecture

24pp E 4041 F 4040 S 4042 15 CHF

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Q.1214 (10/95) Distributed functional plane for intelligent network CS-1

312pp E 6941 F 6942 S 6943 99 CHF

Q.1215 (10/95) Physical plane for intelligent network CS-1

12pp E 6955 F 6956 S 6957 12 CHF

Q.1218 (10/95) Interface Recommendation for intelligent network CS-1

432pp E 7045 F 7046 S 7047 197 CHF

Q.1218 Addendum 1 (09/97) Definition for two new contexts in the SDF data model

4pp E 12830 F 12831 S 12832 9 CHF

Q.1219 (04/94) Intelligent network user's guide for capability set 1

204pp E 5459 F 5458 S 5460 8 CHF

Supplements to the Series Q.1210 Recommendations

Suppl. 1 (09/97) Intelligent network user's guide for Capability Set 1: Supplement for IN CS-1

20pp E 13079 F 13080 S 13081 17 CHF

Supplements to the Series Q Recommendations

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29pp E 14632 F 14633 S 14634 17 CHF

Intelligent Network

Q.1220 (09/97) Q.1220-series Intelligent Network Capability Set 2 Recommendation structure

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Q.1221 (09/97) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE's

44pp E 12803 F 12804 S 12805 22 CHF

Q.1222 (09/97) Service plane for Intelligent Network Capability Set 2

12pp E 12833 F 12834 S 12835 12 CHF

Q.1223 (09/97) Global functional plane for Intelligent Network Capability Set 2

108pp E 12782 F 12783 S 12784 44 CHF

Q.1224 (09/97) Distributed functional plane for intelligent network Capability Set 2

This Recommendation is published in three fascicles.

712pp E 13620 F 13621 S 13622 288 CHF

Q.1225 (09/97) Physical plane for Intelligent Network Capability Set 2

16pp E 12528 F 12529 S 12530 12 CHF

Q.1228 (09/97) 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.

968pp E 14620 F 14621 S 14622 310 CHF

Q.1229 (03/99) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE's

This Recommendation is published in 5 fascicles.

172pp E 17424 F 17425 S 17426 73 CHF

Q.1231 (12/99) Introduction to Intelligent Network Capability Set 3

32pp E 19224 F 19225 S 19226 17 CHF

Q.1236 (12/99) Intelligent Network Capability Set 3 – Management Information Model Requirements and Methodology

56pp E 18102 F 18103 S 18104 29 CHF

Q.1237 (06/00) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE's

96pp E 19918 F 19919 S 19920 39 CHF

Q.1238 Interface Recommendation for intelligent network capability set 3

Q.1238.1 (06/00) Common aspects

This Recommendation includes an electronic attachment containing the ASN.1 definitions for the IN CS-3 common aspects

84pp E 19878 F 19879 S 19880 89 CHF

Q.1238.2 (06/00) Interface Recommendation for intelligent network capability set 3 : SCF-SSF interface

This Recommendation includes an electronic attachment containing the ASN.1 definitions and the SDL diagrams in machine processable forms and in pdf form for SCF-SFF interface

480pp E 20698 F 20699 S 20700 247 CHF

Q.1238.3 (06/00) SCF-SRF interface

This Recommendation includes an electronic attachment containing the ASN.1 definitions for the IN CS-3 SCF-SRF interface

84pp E 20315 F 20316 S 20317 89 CHF

Q.1238.4 (06/00) SCF-SDF interface

This Recommendation includes an electronic attachment containing the ASN.1 definitions for the IN CS-3 SCF-SDF interface

52pp E 20309 F 20310 S 20311 79 CHF

Q.1238.5 (06/00) SDF-SDF interface

This Recommendation includes an electronic attachment containing the ASN.1 definitions for the IN CS-3 SDF-SDF interface

72pp E 20295 F 20297 S 20303 84 CHF

Q.1238.6 (06/00) Interface Recommendation for intelligent network capability set 3: SCF-SCF interface

This Recommendation includes an electronic attachment containing the ASN.1 definitions for the IN CS-3 SCF-SCF interface

84pp E 20727 F 20728 S 20729 9 CHF

Q.1238.7 (06/00) Interface Recommendation for intelligent network capability set 3 : SCF-CUSF interface

This Recommendation includes an electronic attachment containing the ASN.1 definitions for the IN CS-3 SCF-CUSF interface

66pp E 20322 F 20323 S 20324 79 CHF

Q.1241 (07/01) Introduction to Intelligent Network Capability Set 4

24pp E 21704 F 21705 S 21706 17 CHF

Q.1244 (07/01) Distributed functional plane for Intelligent Network Capability Set 4

72pp E 22242 F 22243 S 22244 29 CHF

Q.1248.1 (07/01) Interface Recommendation for Intelligent Network Capability Set 4: Common aspects

88pp E 22054 F 22055 S 22056 89 CHF

Q.1248.2 (07/01) Interface recommendation for Intelligent Network Capability Set 4: SCF-SSF Interface

144pp E 22376 F 22377 S 22378 95 CHF

Q.1248.3 (07/01) Interface recommendation for Intelligent Network Capability Set 4: Interface Recommendation for Intelligent Network Capability Set 4: SCF-SRF interface

92pp E 21955 F 21956 S 21957 89 CHF

Q.1248.4 (07/01) Interface Recommendation for Intelligent Network Capability Set 4: SCF-SDF interface

60pp E 22093 F 22094 S 22095 79 CHF

Q.1248.5 (07/01) Interface Recommendation for Intelligent Network Capability Set 4: SDF-SDF interface

76pp E 21758 F 21759 S 21760 84 CHF

Q.1248.6 (07/01) Interface recommendation for Intelligent Network Capability Set 4: Interface Recommendation for Intelligent Network Capability Set 4: SCF-SCF interface

92pp E 21651 F 21652 S 21653 89 CHF

Q.1248.7 (07/01) Interface Recommendation for Intelligent Network capability set 4: SCF-CUSF Interface

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Q.1551 (06/97) Application of Intelligent Network Application Protocols (INAP) CS1 for UPT Service Set 1

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Q.1600 (09/97) Signalling system No. 7 – Interaction between ISUP and INAP

56pp E 12756 F 12757 S 12758 29 CHF

Q.1600 bis (12/99) Signalling system No. 7 – Interaction between ISDN user part ISUP'97 and INAP CS1: Test suite structure and test purposes (TSS & TP)

This Recommendation includes an electronic attachment containing the ATS in machine processable form and in pdf form for ISUP'97/INAP CS-1 interaction

52pp E 19573 F 19574 S 19575 79 CHF

Q.1600 *bis* **(1999) Amendment 1 (12/00)** Amendment 1

22pp E 21504

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Q.1601 (12/99) Signalling system No. 7 – Interaction between N-ISDN and INAP CS2

56pp E 18943 F 18944 S 18945 29 CHF

Signalling requirements and protocols for IMT-2000

Q.1701 (03/99) Framework for IMT-2000 networks

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Signalling requirements and protocols for IMT-2000

Q.1711 (03/99) Network functional model for IMT-2000

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Intelligent Network

Q.1721 (06/00) Information flows for imt-2000 capability set 1

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Q.1731 (06/00) Radio-technology independent requirements for IMT-2000 layer 2 radio interface

28pp E 18309 F 18310 S 18311 17 CHF

Q.1741.1 (04/02) IMT-2000 references to release 1999 of GSM evolved UMTS core network with UTRAN access network

156pp E 22674 F 22675 S 22676 61 CHF

Q.1741.2 (12/02) IMT-2000 references to release 4 of GSM evolved UMTS core network with UTRAN access network

200pp E 24204 F 24205 S 24206 73 CHF

Q.1741.3 (09/03) IMT-2000 references to release 5 of GSM evolved UMTS core network

To be published...

Q.1742.1 (12/02) IMT-2000 references to ANSI-41 evolved core network with cdma2000 access network

54pp E 23683 F 23684 S 23685 29 CHF

Q.1742.2 (07/03) IMT-2000 references (approved as of 11 July 2002) to ANSI-41 evolved core network with cdma2000 access network

72pp E 24785 F 24786 S 24787 34 CHF

Q.1742.2 (2003) Erratum 1 (03/04) Erratum 1 (03/2004) to ITU-T Recommendation Q.1742.2 (2003)

Q.1742.3 (01/04) IMT-2000 references (approved as of 30 June 2003) to ANSI-41 evolved core network with cdma2000 access network

83pp E 25548 34 CHF

Q.1751 (06/00) Internetwork signalling requirements for IMT-2000 capability set 1

44pp E 18777 F 18778 S 18779 22 CHF

Q.1761 (01/04) Principles and requirements for convergence of fixed and existing IMT-2000 systems

22pp E 25297 17 CHF

Q.1901 (06/00) Bearer independent call control protocol

84pp E 19940 F 19941 S 19942 39 CHF

Q.1901 (2000) Corrigendum 1 (04/02)

Specifications of signalling related to Bearer Independent Call Control (BICC)

Q.1902.1 (07/01) Bearer Independent Call Control protocol (Capability Set 2): Functional description

32pp E 21561 F 21562 S 21563 17 CHF

Q.1902.1 (2001) Amendment 1 (12/02) Support for the international emergency preference scheme

9pp E 23797 F 23798 S 23799 9 CHF

Q.1902.2 (07/01) Bearer Independent Call Control protocol (Capability Set 2) and Signalling System No. 7 ISDN user part: General functions of messages and parameters

40pp E 21806 F 21807 S 21808 22 CHF

Q.1902.2 (2001) Amendment 1 (12/02) Support for the International Emergency Preference Scheme

7pp E 23803 F 23804 S 23805 9 CHF

Q.1902.2 (2001) Amendment 2 (04/04)

7pp E 25474 9 CHF

Q.1902.3 (07/01) Bearer independent call control protocol (Capability Set 2) and Signalling System No. 7 ISDN user part: Formats and codes

156pp E 21838 F 21839 S 21840 61 CHF

Q.1902.3 (2001) Amendment 1 (12/02) Support for the International Emergency Preference Scheme

7pp E 23777 F 23778 S 23779 9 CHF

Q.1902.3 (2001) Amendment 2 (04/04)

11pp E 25496 9 CHF

Q.1902.3 (2001) Corrigendum 1 (04/02)

To be published...

Q.1902.4 (07/01) Bearer independent call control protocol (Capability Set 2): Basic call procedures

140pp E 22029 F 22030 S 22031 55 CHF

Q.1902.4 (2001) Amendment 1 (12/02) Support for the International Emergency Preference Scheme

11pp E 23851 F 23852 S 23853 9 CHF

Q.1902.4 (2001) Amendment 2 (04/04)

To be published...

Q.1902.4 (2001) Corrigendum 1 (04/02)

Not published, directly consolidated with ITU-T Q.1902.4 (07/2001) text

To be published...

Q.1902.5 (07/01) Bearer Independent Call Control protocol (Capability Set 2): Exceptions to the application transport mechanism in the context of BICC

8pp E 21666 F 21667 S 21668 9 CHF

Q.1902.6 (07/01) Bearer Independent Call Control protocol (Capability Set 2): Generic signalling procedures for the support of the ISDN user part supplementary services and for bearer redirection

24pp E 21767 F 21768 S 21769 17 CHF

Q.1902.6 (2001) Amendment 1 (04/04)

12pp E 25520 9 CHF

Q.1912.1 (07/01) Interworking between Signalling System No. 7 ISDN user part and the Bearer Independent Call Control protocol

12pp E 21669 F 21670 S 21671 12 CHF

Q.1912.2 (07/01) Interworking between selected signalling systems (PSTN access, DSS1, C5, R1, R2, TUP) and the Bearer Independent Call Control protocol

16pp E 21718 F 21719 S 21720 12 CHF

Q.1912.3 (07/01) Interworking between H.323 and the Bearer Independent Call Control protocol

12pp E 21672 F 21673 S 21674 12 CHF

Q.1912.4 (07/01) Interworking between Digital Subscriber Signalling System No. 2 and the Bearer Independent Call Control protocol

8pp E 21675 F 21676 S 21677 9 CHF

Q.1922.2 (07/01) Interaction between the Intelligent Network application protocol Capability set 2 and the Bearer independent call control protocol

8pp E 21660 F 21661 S 21662 9 CHF

Q.1922.4 (12/02) Interaction between the Intelligent Network application CS4 protocol and the Bearer Independent Call Control protocol

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Q.1930 (04/02) BICC Access Network Protocol

82pp E 22723 F 22724 S 22725 34 CHF

Q.1950 (12/02) Bearer independent call bearer control protocol

106pp E 23863 F 23864 S 23865 44 CHF

SSCOPMCE over Ethernet and UDP port number E 21546 F 21547 S 21548 12 CHF 16pp 24639pp E 24 17 CHF Q.1990 (07/01) BICC Bearer Control Tunnelling Protocol Q.2119 (07/96) B-ISDN ATM adaptation layer – Convergence function for SSCOP above the frame E 21678 F 21679 S 21680 12 CHF 12pp relay core service E 10452 F 10453 S 10454 12 CHF 16pp **Broadband ISDN** Q.2120 (02/95) B-ISDN meta-signalling protocol General aspects 24 CHF 56pp E 6044 F 6043 S 6045 Q.2010 (02/95) Broadband integrated services digital network overview – Signalling capability set 1, Q.2130 (07/94) B-ISDN signalling ATM adaptation release 1 layer – Service specific coordination function for support of signalling at the user-network interface 8pp E 5924 F 5923 S 5925 11 CHF (SSCF at UNI) 54pp E 5677 F 5676 S 5678 25 CHF Signalling ATM adaptation layer (SAAL) Q.2140 (02/95) B-ISDN ATM adaptation layer – Q.2100 (07/94) B-ISDN signalling ATM adaptation Service specific coordination function for signalling layer (SAAL) – Overview description at the network node interface (SSCF AT NNI) 3pp E 5588 F 5587 S 5589 8 CHF 61pp E 6135 F 6134 S 6136 25 CHF Q.2110 (07/94) B-ISDN ATM adaptation layer – Q.2140 (1995) Erratum 1 (03/04) Service specific connection oriented protocol (SSCOP) Q.2144 (10/95) B-ISDN signalling ATM adaptation S 5675 39 CHF 95pp E 5674 F 5673 layer - Layer management for the SAAL at the network node interface Q.2111 (12/99) Service specific connection oriented 32pp E 7096 F 7097 S 7098 17 CHF protocol in a multi-link and connectionless environment (SSCOPMCE) Q.2150.0 (05/01) Generic signalling transport service 120pp E 20058 F 20059 S 20060 49 CHF S 20806 12 CHF 14pp E 20804 F 20805 Q.2111 (1999) Amendment 1 (07/01) Amendment 1 – B-ISDN ATM adaptation layer – Q.2150.1 (05/01) Signalling Transport Converter on Service specific connection oriented protocol in a MTP3 and MTP3b multilink and connectionless environment (SSCOPMCE) 22 CHF 36pp E 20678 F 20679 S 20680 48pp E 21898 F 21899 S 21900 22 CHF Q.2150.2 (05/01) Signalling transport converter on SSCOP and SSCOPMCE **O.2111 (1999) Amendment 2 (04/02)** API for SSCOPMCE over Ethernet E 20794 F 20795 S 20796 22 CHF 34pp 26pp E 22401 F 22402 S 22403 17 CHF Q.2150.3 (12/02) Signalling transport converter on **SCTP** Q.2111 (1999) Amendment 2 Erratum 1 **(03/04)** Erratum 1 (03/2004) to ITU-T Recommendation Q.2111 (1999) Amend. 2 22pp E 23818 F 23819 S 23820 17 CHF

Q.2111 (1999) Amendment 3 (10/03) API for

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Q.1970 (07/01) BICC IP Bearer control protocol

Signalling network protocols

Q.2210 (07/96) Message transfer part level 3 functions and messages using the services of ITU-T Recommendation Q.2140

28pp E 10106 F 10107 S 10108 17 CHF

Q.2220 (12/02) Transport-Independent Signalling Connection Control Part (TI-SCCP)

66pp E 24999 F 25000 S 25001 29 CHF

Common aspects of B-ISDN application protocols for access signalling and network signalling and interworking

Q.2610 (12/99) Usage of cause and location in B-ISDN user part and DSS2

8pp E 17657 F 17658 S 17659 9 CHF

Q.2630.1 (12/99) AAL type 2 signalling protocol (Capability Set 1)

88pp E 19430 F 19431 S 19432 39 CHF

Q.2630.1 Annex B (03/01) Annex B: SDL definition of the AAL type 2 signalling protocol CS-1

70pp E 20867 F 20868 S 20869 34 CHF

Q.2630.2 (12/00) AAL type 2 signalling protocol – Capability Set 2

56pp E 20864 F 20865 S 20866 29 CHF

Q.2630.2 Annex D (04/02) Annex D: SDL definition of the AAL type 2 signalling protocol CS-2

84pp E 23687 F 23688 S 23689 34 CHF

Q.2630.3 (10/03) AAL type 2 signalling protocol – Capability Set 3

160pp E 25389 61 CHF

Q.2631.1 (10/03) Interworking between AAL type 2 signalling protocol Capability Set 2 and IP connection control signalling protocol Capability Set 1

53pp E 24813 F 24814 S 24815 29 CHF

Q.2632.1 (10/02) Interworking between AAL type 2 signalling protocol Capability Set 2 and IP connection control signalling protocol Capability Set 1

32pp E 24757 F 24758 S 24759 17 CHF

Q.2650 (12/99) Interworking between Signalling System No. 7 broadband ISDN User Part (B-ISUP) and digital subscriber Signalling System No. 2 (DSS 2)

44pp E 18785 F 18786 S 18787 22 CHF

Q.2660 (12/99) Interworking between signalling system No. 7 broadband ISDN User Part (B-ISUP) and narrow-band ISDN User Part (N-ISUP)

36pp E 17764 F 17765 S 17766 22 CHF

B-ISDN application protocols for the network signalling

Q.2721.1 (07/96) Withdrawn (05/00)

B-ISDN user part – Overview of the B-ISDN Network Node Interface Signalling Capability Set 2, Step 1

The content of this Rec. is now covered by ITU-T Recs. Q.2761, Q.2762, Q.2763 and Q.2764 approved in 12/1999

24pp E 10568 F 10569 S 10570 17 CHF

Q.2722.1 (07/96) B-ISDN User Part – Network Node Interface specification for point-to-multipoint call/connection control

68pp E 10630 F 10631 S 10632 34 CHF

Q.2722.1 (1996) Amendment 1 (06/00)

8pp E 19737 F 19738 S 19739 9 CHF

Q.2723.1 (07/96) Withdrawn (05/00)

B-ISDN User Part – Support of additional traffic parameters for Sustainable Cell Rate and Quality of Service

The contents of this Rec. is now covered by ITU-T Recs. Q.2761, Q.2762, Q.2763 and Q.2764 approved in 12/1999

16pp E 10489 F 10490 S 10491 12 CHF

O.2723.2 (09/97) Withdrawn (05/00)

Extensions to the B-ISDN User Part – Support of ATM transfer capability in the broadband bearer capability parameter

The contents of this Rec. is now covered by ITU-T Recs. Q.2761, Q.2762, Q.2763 and Q.2764 approved in 12/1999

12pp E 12719 F 12720 S 12721 12 CHF

Q.2723.3 (09/97) Withdrawn (05/00)

Extensions to the B-ISDN User Part – Signalling capabilities to support traffic parameters for the Available Bit Rate (ABR) ATM transfer capability

The contents of this Rec. is now covered by ITU-T Recs. Q.2761, Q.2762, Q.2763 and Q.2764 approved in 12/1999

16pp E 12722 F 12723 S 12724 12 CHF

Q.2723.4 (09/97) Withdrawn (05/00)

Extensions to the B-ISDN User Part – Signalling capabilities to support traffic parameters for the ATM Block Transfer (ABT) ATM transfer capability

The contents of this Rec. is now covered by ITU-T Recs. Q.2761, Q.2762, Q.2763 and Q.2764 approved in 12/1999

16pp E 12741 F 12742 S 12743 12 CHF

Q.2723.5 (03/99) Withdrawn (05/00)

B-ISDN User Part – Support of cell delay variation tolerance indication

The contents of this Rec. is now covered by ITU-T Recs. Q.2761, Q.2762, Q.2763 and Q.2764 approved in 12/1999

16pp E 16543 F 16544 S 16545 12 CHF

Q.2723.6 (05/98) Withdrawn (05/00)

Extensions to the Signalling System No. 7 B-ISDN User Part – Signalling capabilities to support the indication of the Statistical Bit Rate configuration 2 (SBR 2) and 3 (SBR 3) ATM transfer capabilities

The contents of this Rec. is now covered by ITU-T Recs. Q.2761, Q.2762, Q.2763 and Q.2764 approved in 12/1999

8pp E 13601 F 13602 S 13603 9 CHF

Q.2724.1 (07/96) B-ISDN User Part – Look-ahead without state change for the Network Node Interface

32pp E 10761 F 10762 S 10763 17 CHF

Q.2725.1 (05/98) Withdrawn (05/00)

B-ISDN User Part – Support of negotiation during connection setup

The contents of this Rec. is now covered by ITU-T Recs. Q.2761, Q.2762, Q.2763 and Q.2764 approved in 12/1999

16pp E 13715 F 13716 S 13717 12 CHF

Q.2725.2 (07/96) Withdrawn (05/00)

B ISDN User Part – Modification procedures

The contents of this Rec. is now covered by ITU-T Recs. Q.2761, Q.2762, Q.2763 and Q.2764 approved in 12/1999

28pp E 10807 F 10808 S 10809 22 CHF

O.2725.3 (09/97) Withdrawn (05/00)

Extensions to the B-ISDN User Part – Modification procedures for sustainable cell rate parameters

The contents of this Rec. is now covered by ITU-T Recs. Q.2761, Q.2762, Q.2763 and Q.2764 approved in 12/1999

12pp E 12598 F 12599 S 12600 12 CHF

Q.2725.4 (05/98) Withdrawn (05/00)

Extensions to the Signalling System No. 7 B-ISDN User Part – Modification procedures with negotiation

The contents of this Rec. is now covered by ITU-T Recs. Q.2761, Q.2762, Q.2763 and Q.2764 approved in 12/1999

16pp E 13718 F 13719 S 13720 12 CHF

Q.2726.1 (07/96) Withdrawn (05/00)

B-ISDN user part – ATM end system address

The contents of this Rec. is now covered by ITU-T Recs. Q.2761, Q.2762, Q.2763 and Q.2764 approved in 12/1999

16pp E 10492 F 10493 S 10494 12 CHF

Q.2726.2 (07/96) B-ISDN user part – Call priority

12pp E 10574 F 10576 S 10577 12 CHF

Q.2726.3 (07/96) B-ISDN user part – Network generated session identifier

12pp E 10575 F 10578 S 10579 12 CHF

Q.2726.4 (06/00) Extensions to the B-ISDN User Part – Application generated identifiers

12pp E 19448 F 19449 S 19450 12 CHF

Q.2727 (07/96) Withdrawn (05/00)

B-ISDN user part – Support of frame relay

The contents of this Rec. is now covered by ITU-T Recs. Q.2761, Q.2762, Q.2763 and Q.2764 approved in 12/1999

12pp E 10455 F 10456 S 10457 12 CHF

Q.2730 (12/99) Signalling system No. 7 B-ISDN user part (B-ISUP) – Supplementary services

40pp E 17684 F 17685 S 17686 22 CHF

Q.2735 Stage 3 description for community of interest supplementary services for B-ISDN using SS No. 7

Q.2735.1 (06/97) Closed User Group (CUG)

20pp E 12022 F 12023 S 12024 17 CHF

Q.2751.1 (09/97) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE's

64pp E 12668 F 12669 S 12670 29 CHF

Q.2761 (12/99) Functional description of the B-ISDN user part (B-ISUP) of signalling system No. 7

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Individually through the Electronic Bookshop: 20 CHF

R.59 (11/88) Interface requirements for 50-baud start-stop telegraph transmission in the maritime mobile satellite service

Individually through the Electronic Bookshop: 20 CHF

Correction of signals

R.60 (11/88) Conditions to be fulfilled by regenerative repeaters for start-stop signals of International Telegraph Alphabet No. 2

Individually through the Electronic Bookshop: 20 CHF

R.62 (11/88) Siting of regenerative repeaters in international telex circuits

Individually through the Electronic Bookshop: 20 CHF

Telegraph maintenance

R.70 (11/88) Designation of international telegraph circuits

Individually through the Electronic Bookshop: 20 CHF

R.70 *bis* (11/88) Numbering of international VFT channels

Individually through the Electronic Bookshop: 20 CHF

R.71 (11/88) Organization of the maintenance of international telegraph circuits

Individually through the Electronic Bookshop: 20 CHF

R.72 (11/88) Periodicity of maintenance measurements to be carried out on the channels of international VFT systems

Individually through the Electronic Bookshop: 20 CHF

R.73 (11/88) Maintenance measurements to be carried out on VFT systems

Individually through the Electronic Bookshop: 20 CHF

R.74 (11/88) Choice of type of telegraph distortion-measuring equipment

Individually through the Electronic Bookshop: 20 CHF

R.75 (11/88) Maintenance measurements on codeindependent international sections of international telegraph circuits

Individually through the Electronic Bookshop: 20 CHF

R.75 *bis* (11/88) Maintenance measurements of character error rate on international sections of international telegraph circuits

Individually through the Electronic Bookshop: 20 CHF

R.76 (11/88) Reserve channels for maintenance measurements on channels of international VFT systems

Individually through the Electronic Bookshop: 20 CHF

R.77 (11/88) Use of bearer circuits for voice-frequency telegraphy

Individually through the Electronic Bookshop: 20 CHF

R.78 (11/88) Pilot channel for AMVFT systems

Individually through the Electronic Bookshop: 20 CHF

R.79 (11/88) Automatic tests of transmission quality on telegraph circuits between switching centres

Individually through the Electronic Bookshop: 20 CHF

R.80 (11/88) Causes of disturbances to signals in VFT channels and their effect on telegraph distortion

R.81 (11/88) Maximum acceptable limit for the duration of interruption of telegraph channels arising from failure of the normal power supplies

Individually through the Electronic Bookshop: 20 CHF

R.82 (11/88) Appearance of false calling and clearing signals in circuits operated by switched teleprinter services

Individually through the Electronic Bookshop: 20 CHF

R.83 (11/88) Changes of level and interruptions in VFT channels

Individually through the Electronic Bookshop: 20 CHF

R.90 (11/88) Organization for locating and clearing faults in international telegraph switched networks

Individually through the Electronic Bookshop: 20 CHF

R.91 (11/88) General maintenance aspects for the maritime satellite telex service

Individually through the Electronic Bookshop: 20 CHF

Time-division multiplexing

R.100 (03/93) Transmission characteristics of international TDM links

4pp E 5206 F 5242 S 5278 8 CHF

R.101 (03/93) Code and speed dependent TDM system for anisochronous telegraph and data transmission using bit interleaving

14pp E 5300 F 5291 S 5314 11 CHF

R.102 (03/93) 4800 bit/s code and speed dependent and hybrid TDM systems for anisochronous telegraph and data transmission using bit interleaving

11pp E 5378 F 5377 S 5379 11 CHF

R.103 (11/88) Code and speed-dependent TDM 600 bit/s system for use in point-to-point or branch-line muldex configurations

Individually through the Electronic Bookshop: 20 CHF

R.105 (03/93) 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

3pp E 5182 F 5233 S 5268 8 CHF

R.106 (08/95) Muldex unit for telegraph and low speed data transmission using TDM bit interleaving with an aggregate bit rate higher than 4800 bit/s

8pp E 6353 F 6354 S 6355 8 CHF

R.111 (03/93) Code and speed independent TDM system for anisochronous telegraph and data transmission

9pp E 5187 F 5236 S 5271 11 CHF

R.112 (03/93) TDM hybrid system for anisochronous telegraph and data transmission using bit interleaving

3pp E 5176 F 5230 S 5265 8 CHF

R.113 (03/93) Combined muldex for telegraphy and synchronous data transmission

5pp E 5178 F 5231 S 5266 8 CHF

R.114 (03/93) Numbering of international TDM channels

3pp E 5101 F 5100 S 5102 8 CHF

R.115 (03/93) Maintenance loops for TDM-systems

7pp E 5172 F 5227 S 5262 11 CHF

R.116 (11/88) Maintenance tests to be carried out on international TDM systems

Individually through the Electronic Bookshop: 20 CHF

R.117 (03/93) End-to-end error performance for telegraph, telex and gentex connections involving regenerative equipment

4pp E 5104 F 5103 S 5105 8 CHF

R.118 (03/93) Performance and availability monitoring in regenerative TDM

1pp E 4665 F 4664 S 4666 8 CHF

Transmission quality above 50 bauds

R.120 (11/88) Tolerable limits for the degree of isochronous distortion of code-independent telegraph circuits operating at modulation rates of 75, 100 and 200 bauds

Individually through the Electronic Bookshop: 20 CHF

R.121 (11/88) Standard limits of transmission quality for start-stop user classes of service 1 and 2 on anisochronous data networks

R.122 (11/88) Summary of transmission plans for rates up to 300 bauds

Individually through the Electronic Bookshop: 20 CHF

Definitions

R.140 (11/88) Definitions of essential technical terms in the field of telegraph transmission

Individually through the Electronic Bookshop: 20 CHF

Availability and reliability of international telegraph circuits

R.150 (11/88) Automatic protection switching of dual diversity bearers

Individually through the Electronic Bookshop: 20 CHF

SERIES S

Telegraph services terminal equipment

Start-stop terminals

S.1 (03/93) International Telegraph Alphabet No. 2

4pp E 4943 F 4942 S 4944 8 CHF

S.2 (11/88) Coding scheme using International Telegraph Alphabet No. 2 (ITA2) to allow the transmission of capital and small letters

Individually through the Electronic Bookshop: 20 CHF

S.3 (11/88) Transmission characteristics of the local end with its termination (ITA2)

Individually through the Electronic Bookshop: 20 CHF

S.4 (03/93) Special use of certain characters of the International Telegraph Alphabet No. 2

4pp E 5014 F 5013 S 5015 8 CHF

S.5 (11/88) Standardization of page-printing start-stop equipment and cooperation between page-printing and tape-printing start-stop equipment (ITA2)

Individually through the Electronic Bookshop: 20 CHF

S.6 (11/88) Characteristics of answerback units (ITA2)

Individually through the Electronic Bookshop: 20 CHF

S.7 (11/88) Control of teleprinter motors

Individually through the Electronic Bookshop: 20 CHF

S.8 (03/93) Intercontinental standardization of the modulation rate of start-stop apparatus and of the use of combination No. 4 in figure-shift

1pp E 4626 F 4625 S 4627 8 CHF

S.9 (11/88) Switching equipment of start-stop apparatus

Individually through the Electronic Bookshop: 20 CHF

S.10 (11/88) Transmission at reduced character transfer rate over a standardized 50-baud telegraph channel

Individually through the Electronic Bookshop: 20 CHF

S.11 (11/88) Use of start-stop reperforating equipment for perforated tape retransmission

Individually through the Electronic Bookshop: 20 CHF

S.12 (11/88) Conditions that must be satisfied by synchronous systems operating in connection with standard 50-baud teleprinter circuits

Individually through the Electronic Bookshop: 20 CHF

S.13 (11/88) Use on radio circuits of 7-unit synchronous systems giving error correction by automatic repetition

Individually through the Electronic Bookshop: 20 CHF

S.14 (11/88) Suppression of unwanted reception in radiotelegraph multi-destination teleprinter systems

Individually through the Electronic Bookshop: 20 CHF

S.15 (11/88) Use of the telex network for data transmission at 50 bauds

Individually through the Electronic Bookshop: 20 CHF

S.16 (03/93) Connection to the telex network of an automatic terminal using a V.24 DCE/DTE interface

11pp E 5089 F 5088 S 5090 11 CHF

S.17 (11/88) Answer-back unit simulators

Individually through the Electronic Bookshop: 20 CHF

S.18 (11/88) Conversion between International Telegraph Alphabet No. 2 and International Alphabet No. 5

Individually through the Electronic Bookshop: 20 CHF

S.19 (11/88) Calling and answering in the telex network with automatic terminal equipment

S.20 (03/93) Automatic clearing procedure for a telex terminal

2pp E 4605 F 4604 S 4606 8 CHF

S.21 (03/93) Use of display screens in telex machines

2pp E 4608 F 4607 S 4609 8 CHF

S.22 (03/93) "Conversation impossible" and or prerecorded message in response to J/BELL signals from a telex terminal

2pp E 4644 F 4643 S 4645 8 CHF

S.23 (03/93) 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

2pp E 4623 F 4622 S 4624 8 CHF

S.30 (11/88) Standardization of basic model page-printing machine using International Alphabet No. 5

Individually through the Electronic Bookshop: 20 CHF

S.31 (11/88) Transmission characteristics for start-stop data terminal equipment using International Alphabet No. 5

Individually through the Electronic Bookshop: 20 CHF

S.32 (11/88) Answer-back units for 200- and 300-baud start-stop machines in accordance with Recommendation S.30

Individually through the Electronic Bookshop: 20 CHF

S.33 (03/93) Alphabets and presentation characteristics for the intex service

5pp E 5038 F 5037 S 5039 8 CHF

S.34 (03/93) Intex terminals – Requirements to effect interworking with the international telex service

3pp E 4528 F 4527 S 4529 8 CHF

S.35 (03/93) Answerback coding for the Intex service

3pp E 4713 F 4712 S 4714 8 CHF

S.36 (07/96) INTEX and similar services – Terminal requirements to effect interworking between terminals operating at different speeds

4pp E 7459 F 7460 S 7461 9 CHF

Definitions

S.140 (11/88) Definitions of essential technical terms relating to apparatus for alphabetic telegraphy

Individually through the Electronic Bookshop: 20 CHF

Supplements to the Series S Recommendations

Suppl. 1 (11/88) Minimal specifications for the bilingual (arabic/latin) teleprinter

20 CHF

SERIES T

Terminals for telematic services

T.0 (07/96) Classification of facsimile terminals for document transmission over the public networks

4pp E 7099 F 7100 S 7101 9 CHF

T.1 (11/88) Standardization of phototelegraph apparatus

Individually through the Electronic Bookshop: 20 CHF

T.2 (11/88) Withdrawn (07/96)

Standardization of Group 1 facsimile apparatus for document transmission

Withdrawn in 07/1996 in recognition of the fact that Group 1 stand-alone terminals had not been manufactured for many years and that Group 3 facsimile terminals were the only type being used on the PSTN

 ${\it Individually through the Electronic Bookshop:}$

T.3 (11/88) Withdrawn (07/96)

Standardization of Group 2 facsimile apparatus for document transmission

Withdrawn in 07/1996 in recognition of the fact that Group 2 stand-alone terminals had not been manufactured for many years and that Group 3 facsimile terminals were the only type being used on the PSTN

Individually through the Electronic Bookshop:

General

T.4 (07/03) Standardization of Group 3 facsimile terminals for document transmission

75pp E 24901 F 24902 S 24903 34 CHF

T.5/G.511 (02/98) Test methodology for Group 3 facsimile processing equipment in the Public Switched Telephone Network

This text was first approved and published as ITU-T Rec. G.511, and then renumbered as T.5 on 2002-02-15 without further modification

To be published...

T.6 (11/88) Facsimile coding schemes and coding control functions for group 4 facsimile apparatus

Individually through the Electronic Bookshop: 20 CHF

T.10 (11/88) Document facsimile transmissions on leased telephone-type circuits

Individually through the Electronic Bookshop: 20 CHF

T.10 *bis* (11/88) Document facsimile transmissions in the general switched telephone network

Individually through the Electronic Bookshop: 20 CHF

T.11 (11/88) Withdrawn (10/96)

Phototelegraph transmissions on telephone-type circuit

This Recommendation was also included but not published in H series under alias number H.41. It was deleted after its content became technically out of date

Individually through the Electronic Bookshop:

T.12 (11/88) Withdrawn (10/96)

Range of phototelegraph transmissions on a telephone-type circuit

This Recommendation was also included but not published in H series under alias number H.42. It was deleted after its content became technically out of date

Individually through the Electronic Bookshop:

T.15 (11/88) Withdrawn (10/96)

Phototelegraph transmission over combined radio and metallic circuits

Deleted after its content became technically out of date

Individually through the Electronic Bookshop:

T.20 (11/88) Withdrawn (01/95)

Standardized test chart for facsimile transmissions

T.20 and T.21 are superseded by ITU-T T.22, and the test charts 1, 2 and 3 they described are replaced by test charts 4 and 5 of T.22

Individually through the Electronic Bookshop:

T.21 (11/88) Withdrawn (01/95)

Standardized test charts for document facsimile transmissions

T.20 and T.21 are superseded by ITU-T T.22, and the test charts 1, 2 and 3 they described are replaced by test charts 4 and 5 of T.22

Individually through the Electronic Bookshop:

T.22 (03/93) 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.

9pp E 4002 F 4001 S 4003 11 CHF

T.23 (04/94) 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.

7pp E 5591 F 5590 S 5592 11 CHF

T.24 (06/98) Standardized digitized image set

This Recommendation includes 2 CD-ROMs containing the digitized image set. Due to the data large volume, this Recommendation is not downloadable from the Electronic Bookshop and should be provided from ITU Sales department (Email Sales@itu.int). ITU-T Rec. T.24 text is downloadable free of charge for information purpose. The specimens reproduced inside this text are given for illustration purposes and are not suitable for measurements.

62pp E 16670 F 16671 S 16672 154 CHF

T.24 (1998) Amendment 1 (02/00)

To be published

To be published...

T.30 (07/03) Procedures for document facsimile transmission in the general switched telephone network

319pp E 25063 F 25064 S 25065 124 CHF

T.30 (2003) Erratum 1 (04/04)

Applies only to English version

T.31 (08/95) Asynchronous facsimile DCE control – Service Class 1

23pp E 6324 F 6325 S 6326 15 CHF

T.31 (1995) Amendment 1 (07/96) Annex B: Procedure for Service Class 1 support of V.34 modems

20pp E 7493 F 7494 S 7495 17 CHF

T.32 (08/95) Asynchronous facsimile DCE control – Service Class 2

Covering Note 30.10.1997: Corrigendum

80pp E 6489 F 6490 S 6491 30 CHF

T.32 (1995) Amendment 1 (07/96) T.42 (07/03) Continuous-tone colour representation method for facsimile E 7436 F 7437 S 7438 9 CHF 8pp 18pp E 24688 F 24689 S 24690 12 CHF T.33 (07/96) Facsimile routing utilizing the T.42 (2003) Corrigendum 1 (03/04) Subaddress E 7462 F 7463 S 7464 12 CHF 16pp T.43 (07/97) Colour and gray-scale image representations using lossless coding scheme for T.35 (02/00) Procedure for the allocation of ITU-T facsimile defined codes for non-standard facilities E 11629 F 11630 S 11631 12 CHF 16pp 12pp E 18405 F 18406 S 18407 12 CHF **T.43 (1997) Amendment 1 (02/00)** Accommodation T.36 (07/97) Security capabilities for use with Group of new and future Resolutions 3 facsimile terminals E 18365 F 18366 S 18367 9 CHF 40pp E 11638 F 11639 S 11640 22 CHF T.44 (04/99) Mixed raster content (MRC) T.36 (1997) Amendment 1 (04/99) E 16549 F 16550 S 16551 22 CHF 40pp E 16147 F 16148 S 16149 9 CHF 8pp T.44 (1999) Amendment 1 (02/00) Accommodation of new Annex B T.37 (06/98) Procedures for the transfer of facsimile data via store-and-forward on the Internet E 18434 F 18435 S 18436 17 CHF 28pp E 13917 F 13918 S 13919 12pp 12 CHF T.45 (02/00) Run-length colour encoding E 18362 F 18363 S 18364 8pp 9 CHF **T.37 (1998) Amendment 1 (09/99)** Full Mode E 17744 F 17745 S 17746 **29 CHF** 60pp **T.50 (09/92)** International Reference Alphabet (IRA) (Formerly International Alphabet No. 5 or IA5) – T.37 (1998) Amendment 2 (03/01) Information technology – 7-bit coded character set E 19555 F 19556 for information interchange S 19557 9 CHF 8pp 20pp E 3177 F 3176 S 3178 15 CHF T.37 (1998) Amendment 3 (11/02) **T.51 (09/92)** Latin based coded character sets for E 23082 F 23083 S 23084 9 CHF 8pp telematic services **T.38 (03/02)** Procedures for real-time Group 3 E 3224 F 3223 S 3225 15 CHF 26pp facsimile communication over IP networks T.51 (1992) Amendment 1 (08/95) E 22572 F 22573 S 22574 34 CHF 78pp 8 CHF 8pp E 6603 F 6604 S 6605 **T.38 (07/03)** Procedures for real-time Group 3 T.52 (03/93) Non-latin coded character sets for facsimile communication over IP networks telematic services To be published E 4416 F 4415 S 4417 33 CHF 88pp To be published... T.52 (1993) Amendment 1 (10/96) T.38 (2002) Amendment 1 (07/03) Support for half-E 10633 F 10634 S 10635 9 CHF 8pp duplex V.34 and V.150.1 interworking T.53 (04/94) Character coded control functions for To be published... telematic services T.38 (2002) Amendment 2 (04/04) Support for E 5462 F 5461 S 5463 29 CHF 68pp optional RTP encapsulation, clarification of version T.60 (03/93) **Withdrawn (05/00)**

negation procedures and modification of 'no-signal' To be published...

T.38 (2002) Amendment 3 (01/04) Appendix V – T.38 Implementation Guidelines To be published...

T.39 (10/97) Application profiles for simultaneous voice and facsimile terminals

F 12675 S 12676 12 CHF 16pp E 12674

E 5594

service

T.61 (03/93)

21pp

Withdrawn (08/95) Character repertoire and coded character sets for the international teletex service

Terminal equipment for use in the teletex service

Deleted as a consequence of the suppression of Teletex

F 5593

S 5595

15 CHF

Never published. Deleted as a consequence of the suppression of Teletex service

T.62 *bis* **(03/93)** Control procedures for teletex and G4 facsimile services based on Recommendations X.215 and X.225

30pp E 5526 F 5525 S 5527 15 CHF

T.62 (03/93) Control procedures for teletex and Group 4 facsimile services

163pp E 5597 F 5596 S 5598 65 CHF

T.63 (03/93) Withdrawn (05/00)

Provisions for verification of teletex terminal compliance

Deleted as a consequence of the suppression of Teletex service

21pp E 5170 F 5226 S 5261 15 CHF

T.64 (03/93) Withdrawn (05/00)

Conformance testing procedures for the teletex Recommendations

Deleted as a consequence of the suppression of Teletex service

123pp E 5391 F 5390 S 5392 42 CHF

T.65 (11/88) Withdrawn (07/99)

Applicability of telematic protocols and terminal characteristics to computerized communication terminals (CCTs)

This Recommendation was deleted in 07/1999 as it was no longer applicable due to changes in technology

Individually through the Electronic Bookshop: 20 CHF

T.66 (03/02) Facsimile code points for use with Recommendations V.8 and V.8 *bis*

14pp E 22239 F 22240 S 22241 12 CHF

T.70 (03/93) Network-independent basic transport service for the telematic services

57pp E 5417 F 5416 S 5418 24 CHF

T.71 (11/88) Link access protocol balanced (LAPB) extended for half-duplex physical level facility

Individually through the Electronic Bookshop: 20 CHF

T.80 (09/92) Common components for image compression and communication – Basic principles

11pp E 3435 F 3434 S 3436 11 CHF

T.81 (09/92) Information technology – Digital compression and coding of continuous-tone still images – Requirements and guidelines

Common text with ISO/IEC

182pp E 4466 F 5222 S 5257 61 CHF

T.81 (1992) Amendment 1 (01/04) Patent information update

To be published...

T.82 (03/93) Information technology – Coded representation of picture and audio information – Progressive bi-level image compression

Common text with ISO/IEC

71pp E 4467 F 5239 S 5275 29 CHF

T.82 (1993) Technical Cor.1 (03/95)

T.82 (1993) Technical Cor.2 (03/01)

T.83 (11/94) Information technology – Digital compression and coding of continuous-tone still images: Compliance testing

Common text with ISO/IEC

This Recommendation includes 3 diskettes containing compliance test data for the generic encoder and decoder compliance tests.

64pp E 10229 F 10230 S 10231 99 CHF

T.84 (07/96) Information technology – Digital compression and coding of continuous-tone still images: Extensions

84pp E 7496 F 7497 S 7498 34 CHF

T.84 (1996) Amendment 1 (04/99) Provisions to allow registration of new compression types and versions in the SPIFF header

8pp E 16033 F 16034 S 16035 9 CHF

T.85 (08/95) Application profile for

Recommendation T.82 – Progressive bi-level image compression (JBIG coding scheme) for facsimile apparatus

3pp E 6281 F 6282 S 6283 8 CHF

T.85 (1995) Amendment 1 (10/96)

8pp E 10860 F 10861 S 10862 9 CHF

T.85 (1995) Amendment 2 (10/97)

Covering note: 7 February 2000: French, Spanish only.

pp E 12391 F 12392 S 12393

T.85 (1995) Corrigendum 1 (02/97)

T.86 (06/98) 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)

Common text with ISO/IEC

Covering note, February 1999: Corrigendum

36pp E 14023 F 14024 S 14025 17 CHF

9 CHF

T.87 (06/98) Information Technology – Lossless and T.103 (03/93) Syntax-based videotex end-to-end near-lossless compression of continuous-tone still protocols for the packet mode ISDN images - Baseline E 5414 F 5413 S 5415 29 CHF 60pp Common text with ISO/IEC T.104 (03/93) Packet mode access for syntax-based This Recommendation includes one diskette containing the videotex via PSTN JPEG-LS Lossless and near-lossless image compression reference implementation and a conformance testing 13pp E 5155 F 5219 S 5254 11 CHF image set. T.105 (11/94) Syntax-based videotex application E 15804 F 15805 S 15806 74 CHF 72pp layer protocol T.88 (02/00) Information technology – Coded E 5689 F 5688 S 5690 34 CHF 85pp representation of picture and audio information – Lossy/lossless coding of bi-level images **T.106 (03/93)** Framework of videotex terminal protocols E 18592 F 18593 165pp S 18594 73 CHF 3pp E 5209 F 5244 S 5280 8 CHF T.88 (2000) Amendment 1 (06/03) Encoder T.107 (08/95) Enhanced man machine interface for To be published... videotex and other retrieval services (VEMMI) 128pp E 6650 F 6651 S 6652 44 CHF **T.88 (2000) Amendment 2 (06/03)** Extension of adaptive templates for halftone coding T.120 (07/96) Data protocols for multimedia E 24098 F 24099 16pp S 24100 12 CHF conferencing F 7407 S 7408 24pp E 7406 17 CHF T.89 (09/01) Application profiles for Recommendation T.88 - Lossy/lossless coding of bi-T.120 Annex C (02/98) Lightweight profiles for the level images (JBIG2) for facsimile T.120 architecture E 22191 F 22192 S 22193 12 CHF 24pp E 13525 F 13526 S 13527 17 CHF 24pp T.90 (02/92) Characteristics and protocols for **T.121 (07/96)** Generic application template terminals for telematic services in ISDN E 9551 F 9552 S 9553 44pp 22 CHF E 2809 F 2771 S 2844 24 CHF 58pp T.122 (02/98) Multipoint communication service – T.90 (1992) Amendment 1 (11/94) Characteristics Service definition and protocols for terminals for telematic services in 44pp E 13400 F 13401 S 13402 22 CHF **ISDN** 18pp E 5686 F 5685 S 5687 15 CHF T.123 (05/99) Network-specific data protocol stacks for multimedia conferencing T.90 (1992) Amendment 2 (07/96) 76pp E 16845 F 16846 S 16847 34 CHF E 7341 F 7342 S 7343 9 CHF 8pp T.124 (02/98) Generic Conference Control **T.90 (1992) Amendment 3 (06/98)** Cause value for a E 13979 F 13980 S 13981 212pp 96 CHF G4 fax fallback E 13604 F 13605 S 13606 17 CHF 8pp T.125 (02/98) Multipoint communication service protocol specification **T.100 (11/88)** International information exchange for 144pp E 13784 F 13785 S 13786 55 CHF interactive videotex T.126 (07/97) Multipoint still image and annotation *Individually through the Electronic Bookshop:* protocol T.101 (11/94) International interworking for videotex 132pp E 12251 F 12252 S 12253 55 CHF services **T.127 (08/95)** Multipoint binary file transfer protocol E 6251 F 6252 S 6253 248 CHF 826pp E 6432 F 6433 S 6434 25 CHF 60pp T.102 (03/93) Syntax-based videotex end-to-end

T.128 (02/98) Multipoint application sharing

E 13727 F 13728

S 13729

96 CHF

F 5115

S 5117

8 CHF

216pp

protocols for the circuit mode ISDN

E 5116

6pp

152

T.134 (02/98) Text chat application entity

16pp E 13015 F 13016 S 13017 12 CHF

T.135 (02/98) User-to-reservation system transactions within T.120 conferences

76pp E 13237 F 13239 S 13240 34 CHF

T.136 (05/99) Remote device control application protocol

12pp E 16546 F 16547 S 16548 12 CHF

T.137 (02/00) Virtual meeting room management – services and protocol

140pp E 18730 F 18731 S 18732 55 CHF

T.140 (02/98) Protocol for multimedia application text conversation

16pp E 13315 F 13316 S 13317 12 CHF

T.140 Addendum 1 (02/00) Addendum 1

10pp E 18739 F 18740 S 18741 9 CHF

T.150 (11/88) Telewriting terminal equipment

Individually through the Electronic Bookshop: 29 CHF

T.170 (02/98) Framework of the T.170-Series of Recommendations

8pp E 12860 F 12861 S 12862 9 CHF

T.171 (10/96) Protocols for interactive audiovisual services: coded representation of multimedia and hypermedia objects

332pp E 11036 F 11037 S 11038 124 CHF

T.172 (02/98) MHEG-5 – Support for base-level interactive applications

236pp E 13389 F 13390 S 13391 96 CHF

T.173 (07/97) MHEG-3 script interchange representation

148pp E 12296 F 12297 S 12298 61 CHF

T.174 (10/96) Application programming interface (API) for MHEG-1

192pp E 11096 F 11097 S 11098 73 CHF

T.175 (02/98) Application Programming Interface (API) for MHEG-5

32pp E 12851 F 12852 S 12853 17 CHF

T.176 (02/98) Application Programming Interface (API) for Digital Storage Media Command and Control (DSM-CC)

16pp E 12854 F 12855 S 12856 12 CHF

T.180 (06/98) Homogeneous access mechanism to communication services

332pp E 14561 F 14562 S 14563 124 CHF

T.190 (08/95) Cooperative document handling (CDH) – Framework and basic services

76pp E 6834 F 6835 S 6836 34 CHF

T.191 (07/96) Cooperative document handling (CDH) – Joint synchronous editing (point-to-point)

32pp E 9577 F 9578 S 9579 17 CHF

T.192 (06/98) Cooperative Document Handling – Complex services: Joint synchronous editing and joint document presentation/viewing

60pp E 13892 F 13893 S 13894 29 CHF

T.200 (10/96) Withdrawn (07/99)

Programmable communication interface for terminal equipment connected to ISDN

This Recommendation had been approved at the WTSC 1996. In its Appendix, it describes one of the programmable communication interfaces which were available on the market at that time. Although such an interface does not affect the communication between networks but is rather a matter for implementation at a local computer (e.g. PC), the related study Question had been accepted at the WTSC-96 to promote computer communication via the ISDN, and thus the growth of the ISDNs. After 1996,the quick market development made further studies in the ITU-T obsolete. ITU-T came to the conclusion that it would be appropriate to delete T.200 in order to avoid any further maintenance work which might bind resources unnecessarily

348pp E 11182 F 11183 S 11184 124 CHF

T.300 (11/88) General principles of telematic interworking

Individually through the Electronic Bookshop: 20 CHF

T.330 (11/88) Telematic access to interpersonal messaging system

Individually through the Electronic Bookshop: 39 CHF

T.351 (11/88) Imaging process of character information on facsimile apparatus

Individually through the Electronic Bookshop: 20 CHF

T.390 (11/88) Teletex requirements for interworking with the telex service

Individually through the Electronic Bookshop: 20 CHF

T.400 (11/88) Withdrawn (10/96)

Introduction to document architecture, transfer and manipulation

Deleted after its content became technically out of date

T.411 (03/93) Information technology – Open Document Architecture (ODA) and interchange format: Introduction and general principles

Common text with ISO/IEC

77pp E 5193 F 11783 S 11784 33 CHF

T.411 (1993) Technical Cor. 1 (10/97)

T.412 (03/93) Information technology – Open Document Architecture (ODA) and interchange format: Document structures

Common text with ISO/IEC

260pp E 5605 F 5935 S 5706 91 CHF

T.412 (1993) Technical Cor. 1 (10/97)

T.412 (1993) Technical Cor. 2 (10/97)

T.413 (11/94) Information technology – Open Document Architecture (ODA) and interchange format: Abstract interface for the manipulation of ODA documents

Common text with ISO/IEC

24pp E 5936 F 6732 S 6719 15 CHF

T.414 (03/93) Information technology – Open Document Architecture (ODA) and interchange format: Document profile

Common text with ISO/IEC

31pp E 5141 F 5638 S 5637 20 CHF

T.414 (1993) Technical Cor. 1 (10/97)

T.414 (1993) Technical Cor. 2 (10/97)

T.415 (03/93) Information technology – Open Document Architecture (ODA) and interchange format: Open Document Interchange Format (ODIF)

Common text with ISO/IEC

103pp E 5144 F 5937 S 5938 38 CHF

T.415 (1993) Technical Cor. 1 (10/97)

T.415 (1993) Technical Cor. 2 (10/97)

T.416 (03/93) Information technology – Open Document Architecture (ODA) and interchange format: Character content architectures

Common text with ISO/IEC

68pp E 5389 F 5982 S 5707 29 CHF

T.416 (1993) Technical Cor. 1 (10/97)

T.417 (03/93) Information technology – Open Document Architecture (ODA) and interchange format: Raster graphics content architectures

Common text with ISO/IEC

48pp E 5083 F 5635 S 5636 20 CHF

T.417 (1993) Amendment 1 (10/97)

20pp E 12725 F 12726 S 12727 17 CHF

T.417 (1993) Amendment 2 (02/00) Amendment 2

8pp E 17998 F 17999 S 18000 9 CHF

T.417 (1993) Technical Cor. 1 (10/97)

T.418 (03/93) Information technology – Open Document Architecture (ODA) and interchange format: Geometric graphics content architecture

Common text with ISO/IEC

44pp E 5084 F 5639 S 5708 20 CHF

T.419 (08/95) Information technology – Open Document Architecture (ODA) and interchange format: Audio content architectures

Common text with ISO/IEC

32pp E 6742 F 9877 S 9878 17 CHF

T.421 (11/94) Information technology – Open Document Architecture (ODA) and interchange format: Tabular structures and tabular layout

Common text with ISO/IEC

129pp E 6028 F 7012 S 7013 49 CHF

T.422 (08/95) Information technology – Open Document Architecture (ODA) and interchange format – Identification of document fragments

Common text with ISO/IEC

32pp E 6357 F 6746 S 6724 15 CHF

T.424 (07/96) Information technology – Open Document Architecture (ODA) and interchange format: Temporal relationships and non-linear structures

Common text with ISO/IEC

56pp E 9634 F 9635 S 9636 29 CHF

T.431 (09/92) Document Transfer And Manipulation (DTAM) – Services and protocols – Introduction and general principles

14pp E 3483 F 3482 S 3484 11 CHF

T.432 (09/92) Document Transfer And Manipulation (DTAM) – Services and protocols – Service definition

36pp E 3513 F 3512 S 3514 20 CHF

and mixed content documents in processable and E 6362 F 6363 S 6364 8 CHF 3pp formatted forms E 5607 F 5606 S 5608 65 CHF 180pp T.433 (09/92) Document Transfer And Manipulation (DTAM) – Services and protocols – Protocol T.510 (03/93) General overview of the T.510-Series specification Recommendations 82pp E 3652 F 3651 S 3653 33 CHF E 5298 F 5289 S 5312 11 CHF 12pp **T.433 (1992) Amendment 1 (08/95)** Revisions of **T.521 (11/94)** Communication application profile T.433 to support G4 colour and file transfer BT0 for document bulk transfer based on the session service E 6303 F 6304 S 6305 8 CHF 5pp E 5940 F 5939 S 5941 15pp 15 CHF T.434 (04/99) Binary file transfer format for the **T.521 (1994) Amendment 1 (08/95)** Communication telematic services application profile BT0 for document bulk transfer E 17281 F 17282 S 17283 17 CHF 24pp based on the session service - Amendment 1 E 6300 F 6301 S 6302 8 CHF T.435 (08/95) Document Transfer And Manipulation (DTAM) – Services and protocols – Abstract service T.522 (09/92) Communication application profile definition and procedures for confirmed document BT1 for document bulk transfer manipulation E 3319 F 3318 S 3320 8 CHF 5pp 64pp E 6683 F 6684 S 6685 25 CHF T.523 (03/93) Communication application profile T.436 (08/95) Document Transfer And Manipulation DM-1 for videotex interworking (DTAM) - Services and protocols - Protocol 19pp E 5381 F 5380 S 5382 15 CHF specifications for confirmed document manipulation F 6598 S 6599 **T.541 (03/93)** Operational application profile for E 6597 11 CHF 12pp videotex interworking T.441 (11/88) Document Transfer And Manipulation 21pp E 5305 F 5292 S 5315 15 CHF (DTAM) - Operational structure T.561 (11/88) Terminal characteristics for mixed Individually through the Electronic Bookshop: 20 CHF mode of operation mm Individually through the Electronic Bookshop: 20 CHF **T.501 (03/93)** Document application profile mm for the interchange of formatted mixed mode documents T.562 (11/88) Terminal characteristics for teletex 21pp E 5532 F 5531 S 5533 15 CHF processable mode PM.1 Individually through the Electronic Bookshop: 20 CHF T.502 (11/94) Document application profile PM-11 for the interchange of simple structure, character T.563 (10/96) Terminal characteristics for Group 4 content documents in processable and formatted facsimile apparatus forms E 11039 F 11040 S 11041 17 CHF 28pp E 5692 F 5691 S 5693 25 CHF 52pp T.563 (1996) Amendment 1 (07/97) T.503 (02/00) A document application profile for the E 11230 F 11231 S 11232 9 CHF interchange of Group 4 facsimile documents T.563 (1996) Amendment 2 (10/97) Annex C – E 19106 F 19107 S 19108 T.30 frames for G4 facsimile E 12502 F 12503 S 12504 9 CHF 8pp **T.504 (03/93)** Document application profile for videotex interworking T.563 (1996) Amendment 3 (04/99) 7pp E 5306 F 5293 S 5316 11 CHF E 16223 F 16224 S 16225 8pp 9 CHF T.505 (11/94) Document application profile PM-26 T.563 (1996) Corrigendum 1 (06/98) for the interchange of enhanced structure, mixed content documents in processable and formatted **T.564 (03/93)** Gateway characteristics for videotex forms interworking 100pp E 6080 F 6079 S 6081 39 CHF 30pp E 5538 F 5537 S 5539 15 CHF ITU-T 05/04 - Series T 155

T.506 (08/93) Document application profile PM-36

for the interchange of extended document structures

T.432 (1992) Amendment 1 (08/95) Revisions of

T.432 to support G4 colour and file transfer

T.571 (09/92) Terminal characteristics for the telematic file transfer within the teletex service

11pp E 3552 F 3551 S 3553 11 CHF

T.611 (11/94) Programming Communication Interface (PCI) APPLI/COM for facsimile Group 3, facsimile Group 4, teletex, telex, E-mail and file transfer services

228pp E 6047 F 6046 S 6048 75 CHF

T.800 (08/02) Information technology – JPEG 2000 image coding system: Core coding system

212pp E 23644 S 23646 96 CHF

T.801 (08/02) Information technology – JPEG 2000 image coding system: Extensions

334pp E 23650 124 CHF

T.803 (11/02) Information technology – JPEG 2000 image coding system: Conformance testing

To be published...

T.804 (08/02) Information technology – JPEG 2000 image coding system: Reference software

E 22631 F 22632 S 22633 67 CHF

T.870 (03/02) Information technology – Lossless and near-lossless compression of continuous-tone still images: Extensions

This Recommendation includes an electronic attachment containing the data set used for implementing the JPEG-LS T.870 extension conformance test

66pp E 22287 F 22288 S 22289 79 CHF

SERIES U

Telegraph switching

General

U.1 (03/93) Signalling conditions to be applied in the international telex service

11pp E 4970 F 4969 S 4971 11 CHF

U.2 (11/88) Standardization of dials and dial pulse generators for the international telex service

Individually through the Electronic Bookshop: 20 CHF

U.3 (11/88) Arrangements in switching equipment to minimize the effects of false calling signals

Individually through the Electronic Bookshop: 20 CHF

U.4 (11/88) Exchange of information regarding signals destined to be used over international circuits concerned with switched teleprinter networks

Individually through the Electronic Bookshop: 20 CHF

U.5 (11/88) Requirements to be met by regenerative repeaters in international connections

Individually through the Electronic Bookshop: 20 CHF

U.6 (11/88) Prevention of fraudulent transit traffic in the fully automatic international telex service

Individually through the Electronic Bookshop: 20 CHF

U.7 (03/93) Numbering schemes for automatic switching networks

1pp E 4569 F 4568 S 4570 8 CHF

U.8 (11/88) Hypothetical reference connections for telex and gentex networks

Individually through the Electronic Bookshop: 20 CHF

U.10 (03/93) Equipment of an international telex position

1pp E 4614 F 4613 S 4615 8 CHF

Specific signalling schemes and interworking between signalling systems

U.11 (03/93) Telex and gentex signalling on intercontinental circuits used for intercontinental automatic transit traffic (type c signalling)

15pp E 4973 F 4972 S 4974 11 CHF

U.12 (03/93) Terminal and transit control signalling system for telex and similar services on international circuits (type D signalling)

24pp E 5184 F 5234 S 5269 15 CHF

U.15 (03/93) Interworking rules for international signalling systems according to Recommendations U.1, U.11 and U.12

8pp E 5107 F 5106 S 5108 8 CHF

Signalling over radio and multiplexed channels

U.20 (11/88) Telex and gentex signalling on radio channels (synchronous 7-unit systems affording error correction by automatic repetition)

U.21 (11/88) Operator recall on a telex call set up on a radiotelegraph circuit

Individually through the Electronic Bookshop: 20 CHF

U.22 (11/88) Signals indicating delay in transmission on calls set up by means of synchronous systems with automatic error correction by repetition

Individually through the Electronic Bookshop: 20 CHF

U.23 (11/88) Use of radiotelegraph circuits with ARQ equipment for fully automatic telex calls charged on the basis of elapsed time

Individually through the Electronic Bookshop: 20 CHF

U.24 (11/88) Requirements for telex and gentex operation to be met by synchronous multiplex equipment described in Recommendation R.44

Individually through the Electronic Bookshop: 20 CHF

U.25 (11/88) Requirements for telex and gentex operation to be met by code- and speed-dependent TDM systems conforming to Recommendation R.101

Individually through the Electronic Bookshop: 20 CHF

Gentex signalling

U.30 (11/88) Signalling conditions for use in the international gentex network

Individually through the Electronic Bookshop: 20 CHF

U.31 (11/88) Prevention of connection to faulty stations and/or station lines in the gentex service

Individually through the Electronic Bookshop: 20 CHF

Particular signalling facilities

U.40 (03/93) Reactions by automatic terminals connected to the telex network in the event of ineffective call attempts or signalling incidents

4pp E 4976 F 4975 S 4977 8 CHF

U.41 (11/88) changed address interception and call redirection in the telex service

Individually through the Electronic Bookshop: 20 CHF

U.43 (11/88) Follow-on calls

Individually through the Electronic Bookshop: 20 CHF

U.44 (11/88) Multi-address calls in real time for broadcast purposes in the international telex service

Individually through the Electronic Bookshop: 20 CHF

U.45 (03/93) Response to the not-ready condition of the telex terminal

3pp E 4979 F 4978 S 4980 8 CHF

U.46 (03/93) Interruption of automatic transmission and flow control in the international telex service

2pp E 4249 F 4248 S 4250 8 CHF

Radiotelex interworking

U.60 (11/88) General requirements to be met in interfacing the international telex network with maritime satellite systems

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U.61 (03/93) Detailed requirements to be met in interfacing the international telex network with maritime satellite systems

10pp E 5086 F 5085 S 5087 11 CHF

U.62 (03/93) General requirements to be met in interfacing the international telex network with the fully automated maritime VHF/UHF radio system

5pp E 4566 F 4565 S 4567 8 CHF

U.63 (11/88) General requirements to be met in interfacing the international telex network with the maritime "direct printing" system

Individually through the Electronic Bookshop: 20 CHF

Interworking between new information services and telex

U.70 (11/88) Telex service signals for telex to teletex interworking

Individually through the Electronic Bookshop: 20 CHF

U.74 (11/88) Extraction of telex selection information from a calling telex answerback

Individually through the Electronic Bookshop: 20 CHF

U.75 (03/93) Automatic called telex answerback check

3pp E 5119 F 5118 S 5120 8 CHF

Telex store and forward

U.80 (03/93) International telex store and forward access from a telex subscriber

15pp E 5147 F 5214 S 5250 15 CHF

U.81 (10/96) International telex store-and-forward – Delivery to a telex subscriber

12pp E 11018 F 11019 S 11020 12 CHF

Intex service

U.101 (03/93) Signalling systems for the Intex service (types E and F signalling)

27pp E 4982 F 4981 S 4983 15 CHF

U.102 (07/96) Intex and similar services – Network requirements to effect interworking between terminals operating at different speeds

8pp E 7465 F 7466 S 7467 9 CHF

Definitions

U.140 (11/88) Definitions of essential technical terms relating to telegraph switching and signalling

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The international telex service

U.200 (03/93) The international telex service – General technical requirements for interworking

17pp E 4901 F 4900 S 4902 15 CHF

U.201 (03/93) Interworking between the teletex service and the international telex service

17pp E 5148 F 5215 S 5251 15 CHF

U.202 (03/93) 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

17pp E 5150 F 5216 S 5251 15 CHF

U.203 (03/93) 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

24pp E 5056 F 5055 S 5057 15 CHF

U.204 (03/93) Interworking between the international telex service and the public interpersonal messaging service

23pp E 5366 F 5365 S 5367 15 CHF

U.205 (03/93) 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

2pp E 4269 F 4268 S 4270 8 CHF

U.206 (03/93) Technical requirements for interworking between the international telex service and the videotex service

7pp E 4883 F 4882 S 4884 11 CHF

U.207 (03/93) 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

9pp E 4823 F 4822 S 4824 11 CHF

U.208 (10/96) The international telex service – Interworking with the INMARSAT C system using one-stage selection

12pp E 11021 F 11022 S 11023 12 CHF

U.210 (03/93) Intex service Network requirements to effect interworking with the international telex service

4pp E 4320 F 4319 S 4322 8 CHF

U.220 (03/93) The international telex service – Technical requirements for a status enquiry function in an interworking scenario

6pp E 4922 F 4921 S 4923 8 CHF

SERIES V

Data communication over the telephone network

General

V.1 (11/88) Equivalence between binary notation symbols and the significant conditions of a two-condition code

Individually through the Electronic Bookshop: 20 CHF

V.2 (11/88) Power levels for data transmission over telephone lines

Individually through the Electronic Bookshop: 20 CHF

V.4 (11/88) General structure of signals of international alphabet No. 5 code for character oriented data transmission over public telephone networks

V.5 (11/88) Withdrawn (03/93)

Standardization of data signalling rates for synchronous data transmission in the general switched telephone network

Deleted after its content became technically out of date Individually through the Electronic Bookshop:

V.6 (11/88) Withdrawn (03/93)

Standardization of data signalling rates for synchronous data transmission on leased telephone-type circuits

Deleted after its content became technically out of date Individually through the Electronic Bookshop:

V.7 (11/88) Definitions of terms concerning data communication over the telephone network

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V.8 *bis* (11/00) Procedures for the identification and selection of common modes of operation between data circuit-terminating equipments (DCEs) and between data terminal equipments (DTEs) over the public switched telephone network and on leased point-to-point telephone-type circuits

56pp E 20404 F 20405 S 20406 29 CHF

V.8 (11/00) Procedures for starting sessions of data transmission over the public switched telephone network

20pp E 19921 F 19922 S 19923 17 CHF

Interfaces and voiceband modems

V.10 (03/93) 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.

18pp E 4252 F 4251 S 4253 15 CHF

V.11 (10/96) 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

16pp E 10048 F 10049 S 10050 12 CHF

V.12 (08/95) Electrical characteristics for balanced double-current interchange circuits for interfaces with data signalling rates up to 52 Mbit/s

12pp E 6329 F 6330 S 6331 11 CHF

V.13 (03/93) Simulated carrier control

2pp E 3720 F 3719 S 3721 8 CHF

V.14 (03/93) Transmission of start-stop characters over synchronous bearer channels

4pp E 3971 F 3970 S 3972 8 CHF

V.14 (1993) Corrigendum 1 (09/98)

V.15 (11/88) Use of acoustic coupling for data transmission

Individually through the Electronic Bookshop: 20 CHF

V.16 (11/88) Medical analogue data transmission modems

Individually through the Electronic Bookshop: 20 CHF

V.17 (02/91) A 2-wire modem for facsimile applications with rates up to 14 400 bit/s

11pp E 1960 F 1959 S 1961 10 CHF

V.17 (1991) Corrigendum 1 (09/98)

V.18 (11/00) Operational and interworking requirements for DCEs operating in the text telephone mode

74pp E 20233 F 20234 S 20235 34 CHF

V.18 (2000) Amendment 1 (11/02)

8pp E 23076 F 23077 S 23078 9 CHF

V.19 (11/88) Modems for parallel data transmission using telephone signalling frequencies

Individually through the Electronic Bookshop: 20 CHF

V.20 (11/88) Withdrawn (03/93)

Parallel data transmission modems standardized for universal use in the general switched telephone network

Deleted after its content became technically out of date Individually through the Electronic Bookshop:

V.21 (11/88) 300 bits per second duplex modem standardized for use in the general switched telephone network

Individually through the Electronic Bookshop: 20 CHF

V.22 *bis* (11/88) 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

Individually through the Electronic Bookshop: 20 CHF

V.22 (11/88) 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.23 (11/88) 600/1200-baud modem standardized for use in the general switched telephone network

Individually through the Electronic Bookshop: 20 CHF

V.24 (02/00) List of definitions for interchange circuits between data terminal equipment (DTE) and data circuit-terminating equipment (DCE)

24pp E 18630 F 18631 S 18632 17 CHF

V.25 (10/96) 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

12pp E 10112 F 10113 S 10114 12 CHF

V.25 *bis* (10/96) Synchronous and asynchronous automatic dialling procedures on switched networks

28pp E 10124 F 10125 S 10226 17 CHF

V.25 (1996) Corrigendum 1 (07/01)

V.26 (11/88) 2400 bits per second modem standardized for use on 4-wire leased telephone-type circuits

Individually through the Electronic Bookshop: 20 CHF

V.26 *bis* (11/88) 2400/1200 bits per second modem standardized for use in the general switched telephone network

Individually through the Electronic Bookshop: 20 CHF

V.26 ter (11/88) 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

Individually through the Electronic Bookshop: 20 CHF

V.27 (11/88) 4800 bits per second modem with manual equalizer standardized for use on leased telephone-type circuits

Individually through the Electronic Bookshop: 20 CHF

V.27 *bis* (11/88) 4800/2400 bits per second modem with automatic equalizer standardized for use on leased telephone-type circuits

Individually through the Electronic Bookshop: 20 CHF

V.27 *ter* (11/88) 4800/2400 bits per second modem standardized for use in the general switched telephone network

Individually through the Electronic Bookshop: 20 CHF

V.28 (03/93) Electrical characteristics for unbalanced double-current interchange circuits

6pp E 3974 F 3973 S 3975 8 CHF

V.29 (11/88) 9600 bits per second modem standardized for use on point-to-point 4-wire leased telephone-type circuits

Individually through the Electronic Bookshop: 20 CHF

V.31 *bis* (11/88) Electrical characteristics for single-current interchange circuits using optocouplers

Individually through the Electronic Bookshop: 20 CHF

V.31 (11/88) Electrical characteristics for singlecurrent interchange circuits controlled by contact closure

Individually through the Electronic Bookshop: 20 CHF

V.32 bis (02/91) A duplex modem operating at data signalling rates of up to 14 400 bit/s for use on the general switched telephone network and on leased point-to-point 2-wire telephone-type circuits

22pp E 1981 F 1980 S 1982 13 CHF

V.32 (03/93) 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

23pp E 4050 F 4049 S 4051 15 CHF

V.33 (11/88) 14 400 bits per second modem standardized for use on point-to-point 4-wire leased telephone-type circuits

Individually through the Electronic Bookshop: 20 CHF

V.34 (02/98) 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

76pp E 13500 F 13501 S 13502 34 CHF

Wideband modems

V.35 (10/84) Withdrawn (03/93)

Data transmission at 48 kbit/s using 60-108 kHz group band circuits

Deleted because the information contained in V.35 was out of date. Alternative techniques are described in ITU-T V.36 and V.37

Individually through the Electronic Bookshop: 20 CHF

V.36 (11/88) Modems for synchronous data transmission using 60-108 kHz group band circuits

V.37 (11/88) Synchronous data transmission at a data signalling rate higher than 72 kbit/s using 60-108 kHz group band circuits

Individually through the Electronic Bookshop: 20 CHF

V.38 (10/96) A 48/56/64 kbit/s data circuitterminating equipment standardized for use on digital point-to-point leased circuits

20pp E 10127 F 10128 S 10129 17 CHF

Error control

V.40 (11/88) Withdrawn (03/93)

Error indication with electromechanical equipment

Deleted after its content became technically out of date

Individually through the Electronic Bookshop:

V.41 (11/88) Code-independent error-control system

Individually through the Electronic Bookshop: 20 CHI

V.42 bis (01/90) Data compression procedures for data circuit-terminating equipment (DCE) using error correction procedures

27pp E 1757 F 1758 S 1759 10 CHF

V.42 (03/02) Error-correcting procedures for DCEs using asynchronous-to-synchronous conversion

70pp E 22467 F 22468 S 22469 34 CHF

V.42 (2002) Corrigendum 1 (07/03)

V.43 (02/98) Data flow control

12pp E 13318 F 13319 S 13320 12 CHF

V.44 (11/00) Data compression procedures

64pp E 20450 F 20451 S 20452 29 CHF

V.44 (2000) Corrigendum 1 (03/02)

V.44 (2000) Corr.1/Erratum (05/02) Erratum to Recommendation ITU-T V.44 (2000) / Cor.1 (03/2002)

Transmission quality and maintenance

V.50 (11/88) Standard limits for transmission quality of data transmission

Individually through the Electronic Bookshop: 20 CHF

V.51 (11/88) Organization of the maintenance of international telephone-type circuits used for data transmission

This Recommendation is published under alias number M.729.

Individually through the Electronic Bookshop:

V.52 (12/72) Withdrawn (11/88)

Characteristics of distortion and error-rate measuring apparatus for data transmission

Replaced by ITU-T O.153

Individually through the Electronic Bookshop:

V.53 (11/88) Limits for the maintenance of telephone-type circuits used for data transmission

Individually through the Electronic Bookshop: 20 CHF

V.54 (11/88) Withdrawn (11/88)

Loop test devices for modems

Individually through the Electronic Bookshop: 20 CHF

V.55 (11/88) Specification for an impulsive noise measuring instrument for telephone-type circuits

This Recommendation is published under alias number 0.71.

Individually through the Electronic Bookshop:

V.56 *bis* **(08/95)** Network transmission model for evaluating modem performance over 2-wire voice grade connections

64pp E 6411 F 6412 S 6413 25 CHF

V.56 (11/88) Comparative tests of modems for use over telephone-type circuits

Individually through the Electronic Bookshop: 20 CHF

V.56 ter (08/96) 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.

76pp E 10818 F 10819 S 10820 89 CHF

V.57 (10/84) Withdrawn (11/88)

Comprehensive data test set for high data signalling rates

Replaced by ITU-T O.153

 ${\it Individually\ through\ the\ Electronic\ Bookshop:}$

V.58 (09/94) Management information model for V-Series DCEs

58pp E 5495 F 5453 S 5454 24 CHF

V.59 (11/00) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE's

78pp E 20410 F 20411 S 20412 34 CHF

V.59 (2000) Corrigendum 1 (07/01)

V.59 (2000) Corrigendum 2 (03/02)

Simultaneous transmission of data and other signals

V.61 (08/96) 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

36pp E 9950 F 9951 S 9952 22 CHF

V.70 (08/96) 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

20pp E 9833 F 9834 S 9835 17 CHF

V.75 (08/96) DSVD terminal control procedures

24pp E 9836 F 9837 S 9838 17 CHF

V.75 Appendix II (02/98) Session establishment using V.75/H.245 procedures

12pp E 13403 F 13404 S 13405 12 CHF

V.76 (08/96) Generic multiplexer using V.42 LAPM-based procedures

56pp E 9839 F 9840 S 9841 29 CHF

V.80 (08/96) In-band DCE control and synchronous data modes for asynchronous DTE

36pp E 9953 F 9954 S 9955 22 CHF

V.80 (1996) Amendment 1 (07/01) ITU-T Amendment 1 (07/01) to Recommendation V.80 – In-Band DCE Control and Synchronous Data Modes for Asynchronous DTE

8pp E 20984 F 20985 S 20986 9 CHF

V.90 (09/98) 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

52pp E 14610 F 14611 S 14612 22 CHF

V.91 (05/99) 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

20pp E 16754 F 16755 S 16756 17 CHF

V.91 (1999) Corrigendum 1 (07/01)

V.92 (11/00) Enhancements to Recommendation V.90

76pp E 20395 F 20396 S 20397 34 CHF

V.92 (2000) Amendment 1 (07/01) ITU-T Amendment 1 (07/01) to Recommendation V.92 – Enhancements to Recommendation V.90

12pp E 20992 F 20993 S 20994 9 CHF

V.92 (2000) Amendment 2 (03/02) Enhancements to Recommendation V.90

8pp E 22218 F 22219 S 22220 9 CHF

Error control

V.92 (2000) Corrigendum 1 (07/03)

Interworking with other networks

V.100 (11/88) Interconnection between public data networks (PDNs) and the public switched telephone networks (PSTN)

Individually through the Electronic Bookshop: 20 CHF

V.110 (02/00) 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.

68pp E 18325 F 18326 S 18327 29 CHF

V.120 (10/96) 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

44pp E 10118 F 10119 S 10120 22 CHF

V.120 (1996) Corrigendum 1 (05/99)

V.130 (08/95) ISDN terminal adaptor framework

20pp E 6405 F 6406 S 6407 15 CHF

V.140 (02/98) Procedures for establishing communication between two multiprotocol audiovisual terminals using digital channels at a multiple of 64 or 56 kbit/s

40pp E 13406 F 13407 S 13408 22 CHF

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V.150.0 (01/03) Modem-over-IP networks: Foundation **SERIES X** E 23282 F 23283 S 23284 9 CHF 12pp Data networks and open system communications **V.150.1 (01/03)** Modem-over-IP networks: Procedures for the end-to-end connection of V-series DCEs 136pp E 25303 55 CHF Public data networks V.150.1 (2003) Corrigendum 1 (07/03) To be published Services and facilities To be published... **X.1 (03/00)** International user classes of service in, Interface layer specifications for data and categories of access to, public data networks and communication Integrated Services Digital Networks (ISDNs) E 17966 F 17967 S 17968 16pp 12 CHF V.230 (11/88) General data communications interface layer 1 specification X.2 (03/00) International data transmission services Individually through the Electronic Bookshop: 22 CHF and optional user facilities in public data networks and ISDNs V.250 (07/03) Serial asynchronous automatic dialling and control E 18144 F 18145 S 18146 17 CHF 28pp 104pp E 25088 F 25089 S 25090 44 CHF **X.3 (03/00)** Packet assembly/disassembly facility (PAD) in a public data network Control procedures E 17969 F 17970 S 17971 9 CHF 28pp V.250 Supplement 1 (06/01) Various extensions to V.250 basic command set **X.4 (11/88)** General structure of signals of E 21573 F 21574 S 21575 17 CHF 24pp International Alphabet No. 5 code for character oriented data transmission over public data networks V.251 (08/96) Procedure for DTE-controlled call *Individually through the Electronic Bookshop:* negotiation 20 CHF Approved and published as ITU-T V.25 ter/Annex A **X.5 (10/96)** Facsimile Packet Assembly/Disassembly (08/96), included without further modification in V.25 ter (07/97), renumbered V.251 on 6 February 1998 and facility (FPAD) in a public data network republished without further modifications S 9556 17 CHF 20pp E 9554 F 9555 E 16917 F 16918 S 16919 17 CHF 1pp X.6 (08/97) Multicast service definition V.251 (1996) Erratum 1 (10/03) 22 CHF 40pp E 12426 F 12427 S 12428 V.252 (02/98) Procedure for control of V.70 and H.324 terminals by a DTE **X.6 (1997) Amendment 1 (03/00)** Frame relay PVC E 13082 F 13083 S 13084 17 CHF 32pp multicast service definition E 19710 F 19711 S 19712 9 CHF V.253 (02/98) Control of voice-related functions in a 8pp DCE by an asynchronous DTE X.7 (03/00) Technical characteristics of data E 13503 F 13504 100pp S 13505 44 CHF transmission services Modems on digital circuits 48pp E 18013 F 18014 S 18015 22 CHF

V.300 (07/99) A 128 (144) kbit/s data circuit-

E 16473 F 16474

digital point-to-point leased circuits

24pp

terminating equipment standardized for use on

S 16475

17 CHF

S 5545

X.8 (07/94) Multi-aspect PAD (MAP) framework

F 5543

and service definition

9pp

E 5544

11 CHF

X.10 (03/93) Withdrawn (10/96)

Categories of access for Data Terminal Equipment (DTE) to public data transmission services

Deleted as its content is fully covered by ITU-T X.1

X.15 (10/84) Withdrawn (11/88)

Definitions of terms concerning public data networks

Withdrawn on 25.11.1988

Interfaces

X.20 (11/88) Interface between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for start-stop transmission services on public data networks

Individually through the Electronic Bookshop: 20 CHF

X.20 bis (11/88) Use on public data networks of Data Terminal Equipment (DTE) which is designed for interfacing to asynchronous duplex V-Series modems

Individually through the Electronic Bookshop: 20 CHF

X.21 (09/92) Interface between Data Terminal Equipment and Data Circuit-terminating Equipment for synchronous operation on public data networks

56pp E 3105 F 3104 S 3106 24 CHF

X.21 *bis* (11/88) Use on public data networks of Data Terminal Equipment (DTE) which is designed for interfacing to synchronous V-Series modems

Individually through the Electronic Bookshop: 29 CHF

X.22 (11/88) Multiplex DTE/DCE interface for user classes 3-6

Individually through the Electronic Bookshop: 20 CHF

X.24 (11/88) List of definitions for interchange circuits between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) on public data networks

Individually through the Electronic Bookshop: 20 CHF

X.25 (10/96) 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

168pp E 9971 F 9972 S 9973 73 CHF

X.25 (1996) Corrigendum 1 (09/98)

X.26 (03/93) Electrical characteristics for unbalanced double-current interchange circuits operating at data signalling rates nominally up to 100 kbit/s

This Recommendation is published under alias number V.10

X.27 (10/96) Electrical characteristics for balanced double-current interchange circuits operating at data signalling rates up to 10 Mbit/s

This Recommendation is published under alias number V.11

X.28 (12/97) 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

60pp E 12820 F 12821 S 12822 29 CHF

X.28 (1997) Amendment 1 (03/00) Extensions of PAD parameter settings and PAD service signals

8pp E 19767 F 19768 S 19769 9 CHF

X.29 (12/97) 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

20pp E 12683 F 12684 S 12685 17 CHF

X.30 (03/93) 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

43pp E 3811 F 3810 S 3812 20 CHF

X.31 (11/95) 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

68pp E 6509 F 6510 S 6511 30 CHF

X.32 (10/96) 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

60pp E 9666 F 9667 S 9668 29 CHF

X.33 (10/96) Access to packet-switched data transmission services via frame relaying data transmission services

40pp E 9739 F 9740 S 9741 22 CHF

X.34 (10/96) Access to packet-switched data transmission services via B-ISDN

60pp E 9669 F 9670 S 9671 17 CHF

X.34 (1996) Corrigendum 1 (03/00)

X.35 (11/93) 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

40pp E 5307 F 5294 S 5317 20 CHF

X.36 (02/03) 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

157pp E 24075 F 24076 S 24077 61 CHF

X.37 (04/95) Encapsulation in X.25 packets of various protocols including frame relay

48pp E 6332 F 6333 S 6334 25 CHF

X.38 (10/96) 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

60pp E 9785 F 9786 S 9787 29 CHF

X.39 (10/96) 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

36pp E 9791 F 9792 S 9793 22 CHF

X.40 (11/88) Withdrawn (03/93)

Standardization of frequency-shift modulated transmission systems for the provision of telegraph and data channels by frequency division of a group

Withdrawn on 12.03.1993

X.42 (10/03) Procedures and methods for accessing a public data network from a DTE operating under control of a generalized polling protocol

34pp E 24960 F 24961 S 24962 17 CHF

X.45 (10/96) 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

100pp E 10349 F 10350 S 10351 44 CHF

X.46 (09/98) Access to FRDTS via B-ISDN

28pp E 15592 F 15593 S 15594 17 CHF

X.48 (10/96) Procedures for the provision of a basic multicast service for Data Terminal Equipments (DTEs) using Recommendation X.25

32pp E 9755 F 9756 S 9757 22 CHF

X.49 (10/96) Procedures for the provision of an extended multicast service for Data Terminal Equipments (DTEs) using Recommendation X.25

68pp E 10141 F 10142 S 10143 34 CHF

Transmission, signalling and switching

X.50 *bis* (11/88) Fundamental parameters of a 48-kbit/s user data signalling rate transmission scheme for the international interface between synchronous data networks

Individually through the Electronic Bookshop: 20 CHF

X.50 (11/88) Fundamental parameters of a multiplexing scheme for the international interface between synchronous data networks

Individually through the Electronic Bookshop: 20 CHF

X.51 (11/88) Fundamental parameters of a multiplexing scheme for the international interface between synchronous data networks using 10-bit envelope structure

Individually through the Electronic Bookshop: 20 CHF

X.51 *bis* (11/88) 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

Individually through the Electronic Bookshop: 20 CHF

X.52 (11/88) Method of encoding anisochronous signals into a synchronous user bearer

Individually through the Electronic Bookshop: 20 CHF

X.53 (03/93) Numbering of channels on international multiplex links at 64 kbit/s

1pp E 4575 F 4574 S 4576 8 CHF

X.54 (11/88) Allocation of channels on international multiplex links at 64 kbit/s

Individually through the Electronic Bookshop: 20 CHF

X.55 (11/88) Interface between synchronous data networks using a 6 + 2 envelope structure and single channel per carrier (SCPC) satellite channels

Individually through the Electronic Bookshop: 20 CHF

X.56 (11/88) Interface between synchronous data networks using an 8 + 2 envelope structure and single channel per carrier (SCPC) satellite channels

Individually through the Electronic Bookshop: 20 CHF

X.57 (11/88) Method of transmitting a single lower speed data channel on a 64 kbit/s data stream

Individually through the Electronic Bookshop: 20 CHF

X.58 (11/88) Fundamental parameters of a multiplexing scheme for the international interface between synchronous non-switched data networks using no envelope structure

Individually through the Electronic Bookshop: 20 CHF

X.60 (11/88) Common channel signalling for circuit-switched data applications

Individually through the Electronic Bookshop: 20 CHF

X.61 (11/88) Withdrawn (11/88)

Signalling System No. 7 – Data user part

This Recommendation was also included but not published in Q series under alias number Q.741. It was discontinued because it was no longer used

Individually through the Electronic Bookshop: 29 CHF

X.70 (11/88) Terminal and transit control signalling system for start-stop services on international circuits between anisochronous data networks

Individually through the Electronic Bookshop: 22 CHF

X.71 (11/88) Decentralized terminal and transit control signalling system on international circuits between synchronous data networks

Individually through the Electronic Bookshop: 22 CHF

X.75 (10/96) Packet-switched signalling system between public networks providing data transmission services

128pp E 10130 F 10131 S 10132 49 CHF

X.75 (1996) Corrigendum 1 (09/98)

X.76 (02/03) Network-to-network interface between public networks providing PVC and/or SVC frame relay data transmission service

108pp E 24192 F 24193 S 24194 44 CHF

X.77 (08/97) Interworking between PSPDNs via B-ISDN

28pp E 12432 F 12433 S 12434 17 CHF

X.77 (1997) Corrigendum 1 (03/00)

X.78 (06/99) Interworking procedures between networks providing frame relay data transmission services via B-ISDN

24pp E 16424 F 16425 S 16426 17 CHF

X.78 (1999) Corrigendum 1 (03/00)

X.80 (11/88) Interworking of interexchange signalling systems for circuit-switched data services

Individually through the Electronic Bookshop: 20 CHF

X.81 (11/88) Interworking between an ISDN circuit-switched and a circuit-switched public data network (CSPDN)

Individually through the Electronic Bookshop: 20 CHF

X.82 (11/88) Detailed arrangements for interworking between CSPDNs and PSPDNs based on Recommendation T.70

Individually through the Electronic Bookshop: 20 CHF

X.85/Y.1321 (03/01) IP over SDH using LAPS

28pp E 20810 F 20811 S 20812 17 CHF

X.85/Y.1321 (03/00) Withdrawn (03/00)

IP over SDH using LAPS

28pp E 20810 F 20811 S 20812 17 CHF

Transmission, signalling and switching

X.85/Y.1321 (03/00) Withdrawn (03/00)

IP over SDH using LAPS

28pp E 19227 F 20811 S 20812 17 CHF

X.86/Y.1323 (2001) Amendment 1 (04/02) Using Ethernet flow control as rate limiting

12pp E 22440 F 22441 S 22442 9 CHF

X.86/Y.1323 (02/01) Ethernet over LAPS

20pp E 21904 F 21905 S 21906 12 CHF

X.87/Y.1324 (10/03) Multiple services ring based on RPR

To be published...

Network aspects

X.92 (11/88) Hypothetical reference connections for public synchronous data networks

Individually through the Electronic Bookshop: 20 CHF

X.96 (03/00) Call progress signals in public data networks

16pp E 18045 F 18046 S 18047 12 CHF

Network aspects

X.110 (04/02) International routing principles and routing plan for Public Data Networks

20pp E 22445 F 22446 S 22447 17 CHF

Network aspects

X.111 (02/03) Principles for the routing of international frame relay traffic

26pp E 23773 F 23774 S 23775 17 CHF

Network aspects

X.115 (04/95) Definition of address translation capability in public data networks

16pp E 6272 F 6273 S 6274 15 CHF

X.115 (1995) Amendment 1 (10/96) Refinements

8pp E 10525 F 10526 S 10527 9 CHF

X.116 (10/96) Address translation registration and resolution protocol

28pp E 10535 F 10536 S 10537 17 CHF

X.121 (10/00) International numbering plan for public data networks

35pp E 19931 F 19932 S 19933 22 CHF

International operation

Numbering plan of the international telephone service

X.122/E.166 (03/98) 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

44pp E 13314 F 10010 S 10011 22 CHF

Public data networks

Network aspects

X.123 (10/96) Mapping between escape codes and TOA/NPI for E.164/X.121 numbering plan interworking during the transition period

8pp E 9722 F 9723 S 9724 9 CHF

X.124 (06/99) Arrangements for the interworking of the E.164 and X.121 numbering plans for frame relay and ATM networks

28pp E 16390 F 16391 S 16392 17 CHF

X.125 (09/98) 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

12pp E 15443 F 15444 S 15445 12 CHF

X.130 (11/88) Call processing delays in public data networks when providing international synchronous circuit-switched data services

Individually through the Electronic Bookshop: 20 CHF

X.131 (11/88) Call blocking in public data networks when providing international synchronous circuitswitched data services

Individually through the Electronic Bookshop: 20 CHF

X.134 (08/97) Portion boundaries and packet-layer reference events: Basis for defining packet-switched performance parameters

16pp E 11922 F 11923 S 11924 12 CHF

X.135 (08/97) Speed of service (delay and throughput) performance values for public data networks when providing international packetswitched services

36pp E 12505 F 12506 S 12507 22 CHF

Network aspects

X.135 Supplement 1 (08/97) Some test results from specific national and international portions

Published with ITU-T X.135 (1997)

To be published...

Network aspects

X.136 (08/97) Accuracy and dependability performance values for public data networks when providing international packet-switched services

20pp E 12009 F 12010 S 12011 17 CHF

X.137 (08/97) Availability performance values for public data networks when providing international packet-switched services

20pp E 12000 F 12001 S 12002 17 CHF

X.138 (08/97) Measurement of performance values for public data networks when providing international packet-switched services

44pp E 12043 F 12044 S 12045 22 CHF

X.139 (08/97) Echo, drop, generator and test DTEs for measurement of performance values in public data networks when providing international packetswitched services

20pp E 12046 F 12047 S 12048 17 CHF

X.140 (09/92) General quality of service parameters for communication via public data networks

25pp E 3236 F 3235 S 3237 15 CHF

X.141 (11/88) General principles for the detection and correction of errors in public data networks

A Corrigendum was indicated in 06/1990 for the English version.

Individually through the Electronic Bookshop: 20 CHF

X.142 (10/03) Quality of service metrics for characterizing Frame Relay /ATM service interworking performance

14pp E 24913 F 24914 S 24915 12 CHF

X.144 (10/03) User information transfer performance parameters for public frame relay data networks

36pp E 24867 F 24868 S 24869 17 CHF

X.145 (10/03) Connection establishment and disengagement performance parameters for public frame relay data networks providing SVC services

24pp E 25069 F 25070 S 25071 17 CHF

X.146 (10/00) Performance objectives and quality of service classes applicable to frame relay

24pp E 19937 F 19938 S 19939 17 CHF

X.147 (10/03) Frame Relay network availability

28pp E 24801 F 24802 S 24803 17 CHF

Network aspects

X.148 (02/03) Procedures for the measurement of the performance of public data networks providing the international frame relay service

34pp E 23860 F 23861 S 23862 17 CHF

Network aspects

X.149 (10/03) Performance of IP networks when supported by public frame relay data networks

33pp E 24956 F 24957 S 24958 17 CHF

Maintenance

X.150 (11/88) Principles of maintenance testing for public data networks using Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) test loops

Individually through the Electronic Bookshop: 20 CHF

Network aspects

X.151 (10/03) Frame Relay operations and maintenance – Principles and functions

50pp E 25066 F 25067 S 25068 22 CHF

X.151 (2003) Erratum 1 (03/04)

Applies to English version only

Maintenance

X.160 (10/96) Architecture for customer network management service for public data networks

20pp E 10480 F 10481 S 10482 17 CHF

X.161 (08/97) Definition of customer network management services for public data networks

28pp E 12610 F 12611 S 12612 17 CHF

X.162 (03/00) Definition of management information for customer network management service for public data networks to be used with the CNMc interface

232pp E 18727 F 18728 S 18729 96 CHF

X.163 (04/95) Definition of management information for customer network management service for public data networks to be used with the CNMe interface

72pp E 6435 F 6436 S 6437 30 CHF

X.170 (06/99) Network-network management architecture for data networks

20pp E 16456 F 16457 S 16458 17 CHF

X.171 (03/00) Network-network management services for data networks

22pp E 19633 F 19634 S 19635 12 CHF

Administrative arrangements

X.180 (11/88) Administrative arrangements for international closed user groups (CUGs)

Individually through the Electronic Bookshop: 20 CHF

X.181 (11/88) Administrative arrangements for the provision of international permanent virtual circuits (PVCs)

Individually through the Electronic Bookshop: 20 CHF

Open Systems Interconnection

Model and notation

X.200 (07/94) Information technology – Open Systems Interconnection – Basic Reference Model: The basic model

Common text with ISO/IEC

59pp E 5139 F 5640 S 5641 24 CHF

X.207 (11/93) Information technology – Open Systems Interconnection – Application layer structure

Common text with ISO/IEC

20pp E 4517 F 5247 S 5283 15 CHF

X.208 (11/88) Withdrawn (10/02)

Specification of Abstract Syntax Notation One (ASN.1)

CCITT Recommendation X.208 has been withdrawn on 30 October 2002 as it has been superseded by ITU-T Recommendations X.680-683. All known defects in X.208 have been corrected in ITU-T Recommendations X.680-683 (1993) further revised in 1997 and 2002. If you are a protocol designer creating new ASN.1 notation, you should use the 2002 version of ASN.1 as defined in ITU-T Recommendations X.680-X.683 (2002) instead of using CCITT Recommendation X.208. For further information, please see 'Changing from ASN.1:1988 to ASN.1:2002' on the ITU-T Study Group 17 web page.

Individually through the Electronic Bookshop: 34 CHF

X.209 (11/88) Withdrawn (10/02)

Specification of Basic Encoding Rules for Abstract Syntax Notation One (ASN.1)

CCITT Recommendation X.209 has been withdrawn on 30 October 2002 as it has been superseded by ITU-T Recommendation X.690. All known defects in X.209 have been corrected in ITU-T Recommendation X.690 (1993) further revised in 1997 and 2002. If you are a protocol designer creating new ASN.1 notation, you should use the 2002 version of ASN.1 encoding rules as defined in ITU-T Recommendations X.690-X.693 (2002) instead of using CCITT Recommendation X.209. For further information, please see 'Changing from ASN.1:1988 to ASN.1:2002' on the ITU-T Study Group 17 web page.

Individually through the Electronic Bookshop: 20 CHF

Service definitions

X.210 (11/93) Information technology – Open systems interconnection – Basic Reference Model: Conventions for the definition of OSI services

Common text with ISO/IEC

25pp E 5412 F 5945 S 5709 15 CHF

X.211 (11/95) Information technology – Open systems interconnection – Physical service definition

Common text with ISO/IEC

32pp E 6757 F 7347 S 7348 17 CHF

X.212 (11/95) Information technology – Open systems interconnection – Data Link service definition

Common text with ISO/IEC

32pp E 6772 F 7442 S 7443 17 CHF

X.213 (10/01) Information technology – Open Systems Interconnection – Network service definition

70pp E 21388 F 21389 S 21390 34 CHF

X.214 (11/95) Information technology – Open Systems Interconnection – Transport service definition

Common text with ISO/IEC

36pp E 6731 F 7048 S 7049 17 CHF

X.215 (11/95) Information technology – Open Systems Interconnection – Session service definition

Common text with ISO/IEC

100pp E 6733 F 6837 S 6838 39 CHF

X.215 (1995) Amendment 1 (08/97) Efficiency enhancements

8pp E 12367 F 12368 S 12369 9 CHF

X.215 (1995) Amendment 2 (12/97) Nested X.222 (04/95) Use of X.25 LAPB-compatible Data connections functional unit Link procedures to provide the OSI connection-mode Data Link service E 12836 F 12837 S 12838 9 CHF 8pp This title results from the modification of ITU-T X.222 (04/95) former title by Amendment 1 (10/96). X.215 (1995) Technical Cor. 1 (03/00) F 6270 S 6271 E 6269 11 CHF **X.216 (07/94)** Information technology – Open Systems Interconnection – Presentation service X.222 (1995) Amendment 1 (10/96) Frame relay definition mapping Common text with ISO/IEC 8pp E 10514 F 10515 S 10516 9 CHF 41pp E 5363 F 5948 S 5710 20 CHF **X.223 (11/93)** Use of X.25 to provide the OSI connection-mode Network service for ITU-T **X.216 (1994) Amendment 1 (08/97)** Efficiency applications enhancements E 5619 F 5618 S 5620 20 CHF 35pp E 12370 F 12371 S 12372 9 CHF 8pp X.223 (1993) Amendment 1 (10/96) Transit delay X.216 (1994) Amendment 2 (12/97) Nested and other refinements connections functional unit E 10538 F 10539 S 10540 9 CHF 8pp E 12898 F 12899 S 12900 9 CHF 8pp **X.224 (11/95)** Information technology – Open X.217 (04/95) Information technology – Open Systems Interconnection – Protocol for providing the Systems Interconnection – Service definition for the connection-mode transport service Association Control Service Element Common text with ISO/IEC Common text with ISO/IEC E 9681 156pp F 9682 S 9683 61 CHF 28pp E 6699 F 7142 S 7143 15 CHF **X.224 (1995) Amendment 1 (08/97)** Relaxation of X.217 bis (09/98) Information technology – Open class conformance requirements and expedited data Systems Interconnection – Service definition for the service feature negotiation Application Service Object Association Control E 12373 F 12374 S 12375 9 CHF 8pp Service Element Common text with ISO/IEC **X.225 (11/95)** Information technology – Open Systems Interconnection - Connection-oriented 32pp E 14399 F 14400 S 14401 22 CHF Session protocol: Protocol specification **X.217 (1995) Amendment 1 (10/96)** Support of Common text with ISO/IEC authentication mechanisms for the connectionless 180pp E 6734 F 9842 S 9843 73 CHF mode E 10866 F 10867 S 10868 9 CHF 8pp X.225 (1995) Amendment 1 (08/97) Efficiency enhancements X.217 (1995) Amendment 2 (08/97) Fast-associate E 12223 F 12224 S 12225 22 CHF 36pp mechanism E 12352 F 12353 S 12354 9 CHF 8pp X.225 (1995) Amendment 2 (12/97) Nested connections functional unit X.218 (03/93) Reliable Transfer: Model and service E 12901 F 12902 S 12903 12 CHF 16pp definition E 3625 F 3624 S 3626 15 CHF 17pp X.225 (1995) Technical Cor. 1 (03/00) X.219 (11/88) Remote Operations: Model, notation **X.226 (07/94)** Information technology – Open and service definition Systems Interconnection - Connection-oriented Presentation protocol: Protocol specification Individually through the Electronic Bookshop: 20 CHF Common text with ISO/IEC Connection-mode protocol specifications 60pp F 5949 29 CHF E 5364 S 5711 **X.220 (03/93)** Use of X.200-Series protocols in X.226 (1994) Amendment 1 (08/97) Nested **CCITT** applications connections functional unit E 3631 F 3630 S 3632 8 CHF E 12226 F 12227 S 12228 17 CHF 4pp 24pp

X.226 (1994) Amendment 2 (12/97) Nested connections functional unit

8pp E 12839 F 12840 S 12841 9 CHF

X.227 (04/95) Information technology – Open Systems Interconnection – Connection-oriented protocol for the Association Control Service Element: Protocol specification

44pp E 6743 F 9956 S 9957 22 CHF

X.227 bis (09/98) Information technology – Open Systems Interconnection – Connection-mode protocol for the Application Service Object Association Control Service Element

Common text with ISO/IEC

82pp E 14499 F 14500 S 14501 34 CHF

X.227 (1995) Amendment 1 (10/96) Incorporation of extensibility markers

12pp E 10869 F 10870 S 10871 12 CHF

X.227 (1995) Amendment 2 (08/97) Fast-associate mechanism

8pp E 12376 F 12377 S 12378 9 CHF

X.228 (1988) Corrigendum 1 (03/00)

X.228 (11/88) Reliable Transfer: Protocol specification

Individually through the Electronic Bookshop: 34 CHF

X.229 (11/88) Remote Operations: Protocol specification

Individually through the Electronic Bookshop: 20 CHF

Connectionless-mode protocol specifications

X.233 (08/97) Information technology – Protocol for providing the connectionless-mode network service: Protocol specification

Common text with ISO/IEC

64pp E 12823 F 12824 S 12825 29 CHF

X.234 (07/94) Information technology – Protocol for providing the OSI connectionless-mode transport service

Common text with ISO/IEC

8pp E 5621 F 5981 S 5712 15 CHF

X.234 (1994) Amendment 1 (11/95) Addition of connectionless-mode multicast capability

8pp E 7305 F 7306 S 7307 9 CHF

X.235 (04/95) Information technology – Open Systems Interconnection – Connectionless Session protocol: Protocol specification

Common text with ISO/IEC

16pp E 6424 F 6854 S 6855 11 CHF

X.235 (1995) Amendment 1 (06/99) Efficiency enhancements

12pp E 16226 F 16227 S 16228 12 CHF

X.236 (04/95) Information technology – Open Systems Interconnection – Connectionless Presentation protocol: Protocol specification

Common text with ISO/IEC

16pp E 6284 F 6716 S 6487 15 CHF

X.236 (1995) Amendment 1 (06/99) Efficiency enhancements

12pp E 16229 F 16230 S 16231 12 CHF

X.237 (04/95) Information technology – Open Systems Interconnection – Connectionless protocol for the Association Control Service Element: Protocol specification

Common text with ISO/IEC

20pp E 6285 F 6485 S 6628 15 CHF

X.237 *bis* **(09/98)** Information technology – Open Systems Interconnection – Connectionless protocol for the Application Service Object Association Control Service Element

Common text with ISO/IEC

24pp E 14402 F 14403 S 14404 17 CHF

X.237 (1995) Amendment 1 (10/96) Incorporation of extensibility markers and authentication parameters

8pp E 10872 F 10873 S 10874 9 CHF

X.237 Amd1 (10/96) Technical Cor.1 (06/99)

PICS proformas

X.244 (11/88) Withdrawn (10/96)

Procedure for the exchange of protocol identification during virtual call establishment on Packet Switched Public Data Networks

Common text with ISO/IEC

Superseded by the more comprehensive description of protocol identifiers contained in X.263

X.245 (04/95) Information technology – Open Systems Interconnection – Connection-oriented Session protocol: Protocol Implementation Conformance Statement (PICS) proforma

Common text with ISO/IEC

44pp E 6741 F 9762 S 9765 22 CHF

X.246 (10/96) Information technology – Open Systems Interconnection – Connection-oriented presentation protocol: Protocol Implementation Conformance Statement (PICS) proforma

Common text with ISO/IEC

28pp E 9844 F 9845 S 9846 17 CHF

X.247 (10/96) Information technology – Open Systems Interconnection – Protocol specification for the association control service element: Protocol Implementation Conformance Statement (PICS) proforma

Common text with ISO/IEC

16pp E 9847 F 9848 S 9849 12 CHF

X.248 (11/95) Information technology – Open
 Systems Interconnection – Reliable Transfer:
 Protocol Implementation Conformance Statement
 (PICS) proforma

Common text with ISO/IEC

20pp E 6776 F 9557 S 9558 17 CHF

X.249 (11/95) Information technology – OpenSystems Interconnection – Remote Operations:Protocol Implementation Conformance Statement(PICS) proforma

Common text with ISO/IEC

16pp E 6777 F 9559 S 9560 12 CHF

X.255 (04/95) Information technology – Open
 Systems Interconnection – Connectionless Session
 protocol: Protocol Implementation Conformance
 Statement (PICS) proforma

Common text with ISO/IEC

16pp E 6189 F 6680 S 6630 11 CHF

X.256 (04/95) Information technology – Open Systems Interconnection – Connectionless Presentation protocol: Protocol Implementation Conformance Statement (PICS) proforma

Common text with ISO/IEC

16pp E 6190 F 6679 S 6629 11 CHF

X.257 (04/95) Information technology – Open Systems Interconnection – Connectionless protocol for the Association Control Service Element: Protocol Implementation Conformance Statement (PICS) proforma

Common text with ISO/IEC

16pp E 6191 F 6459 S 6632 11 CHF

X.257 (1995) Amendment 1 (10/96) Support of authentication parameters

8pp E 10678 F 10679 S 10680 9 CHF

Protocol Identification

X.260 (10/96) Information technology – Framework for protocol identification and encapsulation

Common text with ISO/IEC

24pp E 9938 F 9939 S 9940 17 CHF

X.263 (09/98) Information technology – Protocol identification in the Network Layer

Common text with ISO/IEC

24pp E 14471 F 14472 S 14473 17 CHF

X.264 (11/93) Transport protocol identification mechanism

6pp E 5110 F 5109 S 5111 8 CHF

Security Protocols

X.272 (03/00) Data compression and privacy over frame relay networks

41pp E 19834 F 19835 S 19836 22 CHF

X.273 (07/94) Information technology – Open Systems Interconnection – Network layer security protocol

Common text with ISO/IEC

108pp E 5622 F 6255 S 6180 44 CHF

X.274 (07/94) Information technology – Telecommunication and information exchange between systems – Transport layer security protocol

Common text with ISO/IEC

50pp E 5553 F 6287 S 6288 24 CHF

Layer Managed Objects

X.281 (06/99) Information technology – Elements of management information related to the OSI Physical Layer

24pp E 16132 F 16133 S 16134 17 CHF

X.282 (06/99) Elements of management information related to the OSI Data Link layer

136pp E 16464 F 16465 S 16466 55 CHF

X.283 (12/97) Information technology – Elements of management information related to the OSI Network layer

Common text with ISO/IEC

288pp E 13122 F 13123 S 13124 96 CHF

X.284 (12/97) Information technology – Elements of management information related to the OSI Transport Layer

Common text with ISO/IEC

164pp E 13125 F 13126 S 13127 73 CHF

X.287 (03/99) Information technology – Open Systems Interconnection – Structure of management information: Managed objects for supporting upper layers

44pp E 16402 F 16403 S 16404 22 CHF

Conformance testing

X.290 (04/95) OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – General concepts

60pp E 6639 F 6640 S 6641 25 CHF

X.291 (04/95) OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – Abstract test suite specification

48pp E 6402 F 6403 S 6404 20 CHF

X.292 (05/02) OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – The Tree And Tabular Combined Notation (TTCN)

248pp E 22903 F 22904 S 22905 96 CHF

X.293 (04/95) OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – Test realization

20pp E 6656 F 6657 S 6658 15 CHF

X.294 (04/95) OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – Requirements on test laboratories and clients for the conformance assessment process

44pp E 6659 F 6660 S 6661 20 CHF

X.295 (04/95) OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – Protocol profile test specification

24pp E 6642 F 6643 S 6644 15 CHF

X.296 (11/95) OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – Implementation conformance statements

64pp E 7250 F 7251 S 7252 29 CHF

Interworking between networks

General

X.300 (10/96) General principles for interworking between public networks and between public networks and other networks for the provision of data transmission services

56pp E 10792 F 10793 S 10794 29 CHF

X.301 (10/96) Description of the general arrangements for call control within a subnetwork and between subnetworks for the provision of data transmission services

72pp E 10176 F 10177 S 10178 34 CHF

X.302 (11/88) Description of the general arrangements for internal network utilities within a subnetwork and intermediate utilities between subnetworks for the provision of data transmission services

Individually through the Electronic Bookshop: 20 CHF

X.305 (11/88) Functionalities of subnetworks relating to the support of the OSI connection-mode network service

Individually through the Electronic Bookshop: 20 CHF

X.320 (10/96) General arrangements for interworking between integrated services digital networks (ISDNs) for the provision of data transmission services

20pp E 10147 F 10148 S 10149 17 CHF

X.321 (10/96) 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

12pp E 10150 F 10151 S 10152 12 CHF

X.322 (11/88) 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

Individually through the Electronic Bookshop: 20 CHF

X.323 (11/88) General arrangements for interworking between Packet-Switched Public Data Networks (PSPDNs)

Individually through the Electronic Bookshop: 20 CHF

X.324 (11/88) General arrangements for interworking between Packet-Switched Public Data Networks (PSPDNs) and public mobile systems for the provision of data transmission services

Individually through the Electronic Bookshop: 20 CHF

X.325 (10/96) 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

12pp E 10159 F 10160 S 10161 12 CHF

X.326 (11/88) General arrangements for interworking between Packet-Switched Public Data Networks (PSPDNs) and Common Channel Signalling Network (CCSN)

Individually through the Electronic Bookshop: 20 CHF

X.327 (11/93) General arrangements for interworking between Packet-Switched Public Data Networks (PSPDNs) and private data networks for the provision of data transmission services

9pp E 5156 F 5220 S 5255 11 CHF

X.328 (10/96) 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

16pp E 10352 F 10353 S 10354 12 CHF

X.329 (03/00) General arrangements for interworking between networks providing frame relay data transmission services and B-ISDN

24pp E 18188 F 18189 S 18190 17 CHF

X.340 (03/93) General arrangements for interworking between a Packet-Switched Public Data Network (PSPDN) and the international telex network

9pp E 3643 F 3642 S 3644 11 CHF

Satellite data transmission systems

X.350 (12/97) General interworking requirements to be met for data transmission in international public mobile satellite systems

12pp E 12731 F 12732 S 12733 12 CHF

X.351 (11/88) 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

Individually through the Electronic Bookshop: 20 CHF

X.352 (11/88) Interworking between packet-switched public data networks and public maritime mobile satellite data transmission systems

Individually through the Electronic Bookshop: 20 CHF

X.353 (11/88) Routing principles for interconnecting public maritime mobile satellite data transmission systems with public data networks

Individually through the Electronic Bookshop: 20 CHF

X.361 (10/96) Connection of VSAT systems with Packet-Switched Public Data Networks based on X.25 procedures

24pp E 10355 F 10356 S 10357 17 CHF

X.370 (11/88) Withdrawn (10/96)

Arrangements for the transfer of internetwork management information

Deleted because it was such a general Recommendation that it served no useful practical purpose

Individually through the Electronic Bookshop:

X.371/Y.1402 (02/01) General arrangements for interworking between Public Data Networks and the Internet

19pp E 21749 F 21750 S 21751 12 CHF

Message Handling Systems

X.400/F.400 (06/99) Message handling services: Message handling system and service overview

To be published...

X.402 (06/99) Information technology – Message Handling Systems (MHS) – Overall Architecture

Common text with ISO/IEC

108pp E 17401 F 17401 44 CHF

X.403 (11/88) Withdrawn (11/95)

Message handling systems: conformance testing

Common text with ISO/IEC

This Recommendation was withdrawn because conformance testing concepts and methods defined in it were related to the 1984 MHS Recommendations and were not aligned with either the first or second versions of conformance testing standards. ITU-T X.480 (1992) refers to the 1988 'Blue Book' MHS Recommendations and was better aligned with the testing standards

Individually through the Electronic Bookshop:

X.404 (06/99) Information technology – Message Handling Systems (MHS): MHS routing – Guide for messaging systems managers

Common text with ISO/IEC

64pp E 16427 F 16428 S 16429 29 CHF

X.407 (11/88) Withdrawn (11/95)

Message handling systems: Abstract service definition conventions

Common text with ISO/IEC

This Recommendation was not referenced from any Recommendation and some of its technical content was contained in ITU-T X.402 (1995)

Individually through the Electronic Bookshop:

X.408 (11/88) Message handling systems: Encoded information type conversion rules

Individually through the Electronic Bookshop: 22 CHF

X.410 (10/84) Withdrawn (11/88)

Message handling systems: remote operations and reliable transfer server

Withdrawn on 25.11.1988

X.411 (06/99) Information technology – Message Handling Systems (MHS): Message transfer system: abstract service definition and procedures

Common text with ISO/IEC

202pp E 17395 F 17395 73 CHF

X.412 (06/99) Information technology – Message Handling System (MHS): MHS routing

76pp E 16524 F 17399 S 17400 34 CHF

X.413 (06/99) Information technology – Message Handling Systems (MHS) – Message store: Abstract Service Definition

Common text with ISO/IEC

156pp E 17237 F 17238 S 17239 61 CHF

X.419 (06/99) Information technology – Message Handling Systems (MHS): Protocol specifications

Common text with ISO/IEC

58pp E 17353 F 17353 29 CHF

X.420 (06/99) Information technology – Message Handling Systems (MHS): Interpersonal messaging system

Common text with ISO/IEC

220pp E 17404 F 17404 96 CHF

X.421 (06/99) Message Handling Systems: COMFAX use of MHS

20pp E 18352 F 18353 S 18354 12 CHF

X.435 (06/99) Information technology – Message handling services (MHS): Electronic Data Interchange messaging system

Common text with ISO/IEC

120pp E 16552 F 16553 S 16554 49 CHF

X.440 (06/99) Message handling systems: Voice messaging system

To be published...

X.445 (04/95) Asynchronous protocol specification – Provision of OSI connection mode network service over the telephone network

40pp E 6479 F 6480 S 6481 20 CHF

X.446 (08/97) Common messaging call API

288pp E 11948 F 11949 S 11950 96 CHF

X.460 (04/95) Information technology – Message Handling Systems (MHS) Management: Model and architecture

Common text with ISO/IEC

20pp E 6427 F 6856 S 6857 15 CHF

X.462 (10/96) Information technology – Message Handling Systems (MHS) Management: Logging information

Common text with ISO/IEC

96pp E 9640 F 9641 S 9642 39 CHF

X.467 (10/96) Information technology – Message Handling Systems (MHS) Management: Message transfer agent management

Common text with ISO/IEC

120pp E 9618 F 9619 S 9620 49 CHF

X.480 (09/92) Withdrawn (03/00)

Message handling systems and directory services – conformance testing

Withdrawn as it references documents that have been deleted by the ITU

10pp E 3357 F 3356 S 3358 11 CHF

X.481 (06/99) Message handling systems – P2 protocol PICS proforma

28pp E 15651 F 15652 S 15653 17 CHF

X.482 (06/99) Message handling systems – P1 protocol PICS proforma

32pp E 15654 F 15655 S 15656 22 CHF

X.483 (06/99) Message handling systems – P3 protocol PICS proforma

44pp E 15685 F 15686 S 15687 22 CHF

X.484 (06/99) Message handling systems – P7 protocol PICS proforma

76pp E 15710 F 15711 S 15712 39 CHF

X.485 (09/92) Message handling systems:
Voice messaging system Protocol Implementation
Conformance Statement (PICS) proforma

27pp E 3468 F 3467 S 3469 15 CHF

X.486 (06/99) Message handling systems – Pedi protocol PICS proforma

24pp E 15636 F 15637 S 15638 17 CHF

X.487 (06/99) Message handling systems – IPM-MS attributes PICS proforma

32pp E 16277 F 16278 S 16279 17 CHF

X.488 (06/99) Message handling systems – EDI-MS attributes PICS proforma

12pp E 16280 F 16281 S 16282 17 CHF

Directory

X.500 (02/01) Information technology – Open Systems Interconnection – The Directory: Overview of concepts, models and services

Common text with ISO/IEC

30pp E 21260 F 21261 S 21262 17 CHF

X.501 (02/01) Information technology – Open Systems Interconnection – The Directory: Models

Common text with ISO/IEC

240pp E 21308 F 21309 S 21310 96 CHF

X.509 (03/00) Information technology – Open Systems Interconnection – The Directory: Public-key and attribute certificate frameworks

146pp E 19454 F 19455 S 19456 61 CHF

Directory

X.509 (2000) Technical Cor.1 (10/01)

X.509 Cor2 (02/01)

Common text with ISO/IEC

X.509 (2000) Technical Cor.2 (04/02)

X.509 (2000) Corrigendum 3 (04/04)

This corrigendum cancels and replaces the text approved on 2003-02-13

To be published...

X.511 (02/01) Information technology – Open Systems Interconnection – The Directory: Abstract service definition

Common text with ISO/IEC

110pp E 20873 F 20874 S 20875 44 CHF

X.518 (02/01) Information technology – Open Systems Interconnection – The Directory: Procedures for distributed operation

Common text with ISO/IEC

121pp E 21373 F 21374 S 21375 49 CHF

X.519 (02/01) Information technology – Open Systems Interconnection – The Directory: Protocol specifications

Common text with ISO/IEC

70pp E 21317 F 21318 S 21319 34 CHF

X.520 (02/01) Information technology – Open Systems Interconnection – The Directory: Selected attribute types

Common text with ISO/IEC

74pp E 21311 F 21312 S 21313 34 CHF

X.520 (2001) Technical Cor.1 (04/02)

X.521 (02/01) Information technology – Open Systems Interconnection – The Directory: Selected object classes

Common text with ISO/IEC

34pp E 21263 F 21264 S 21265 17 CHF

X.525 (02/01) Information technology – Open Systems Interconnection – The Directory: Replication

Common text with ISO/IEC

40pp E 21221 F 21222 S 21223 22 CHF

X.530 (02/01) Information technology – Open Systems Interconnection – The Directory: Use of systems management for administration of the Directory

Common text with ISO/IEC

94pp E 21314 F 21315 S 21316 39 CHF

X.581 (11/95) Withdrawn (06/02)

Information technology – Open Systems Interconnection – The Directory: Directory Access Protocol – Protocol Implementation Conformance Statement (PICS) proforma

ITU-T Recs. X.581 and X.582 contain the PICS proforma based on the 1988 (first) edition of the Directory Specifications, while ITU-T Recs. X.583 through X.586 provide the PICS proformas for the second edition of the Directory Specifications. Since there are no plans to update these proformas to align with the new 2000/2001 (fourth) edition of the Directory specifications, X.581 and X.582 are considered as obsolete and are withdrawn

28pp E 6687 F 7132 S 7133 15 CHF

X.582 (11/95) Withdrawn (06/02)

Information technology – Open Systems Interconnection – The Directory: Directory System Protocol – Protocol Implementation Conformance Statement (PICS) proforma

ITU-T Recs. X.581 and X.582 contain the PICS proforma based on the 1988 (first) edition of the Directory Specifications, while ITU-T Recs. X.583 through X.586 provide the PICS proformas for the second edition of the Directory Specifications. Since there are no plans to update these proformas to align with the new 2000/2001 (fourth) edition of the Directory specifications, X.581 and X.582 are considered as obsolete and are withdrawn

32pp E 6686 F 7147 S 7148 15 CHF

X.583 (12/97) Information technology – Open Systems Interconnection – The Directory: Protocol Implementation Conformance Statement (PICS) proforma for the Directory Access Protocol

Common text with ISO/IEC

52pp E 13506 F 13507 S 13508 22 CHF

X.584 (12/97) Information technology – Open Systems Interconnection – The Directory: Protocol Implementation Conformance Statement (PICS) proforma for the Directory System Protocol

Common text with ISO/IEC

52pp E 13478 F 13479 S 13480 29 CHF

X.585 (12/97) Information technology – Open Systems Interconnection – The Directory: Protocol Implementation Conformance Statement (PICS) proforma for the Directory Operational Binding Management Protocol

Common text with ISO/IEC

28pp E 13481 F 13482 S 13483 17 CHF

X.586 (12/97) Information technology – Open Systems Interconnection – The Directory: Protocol Implementation Conformance Statement (PICS) proforma for the Directory Information Shadowing Protocol

Common text with ISO/IEC

28pp E 13465 F 13466 S 13467 17 CHF

OSI networking and system aspects

Networking

X.601 (03/00) Multi-peer communications framework

Common text with ISO/IEC

20pp E 18573 F 18574 S 18575 17 CHF

Networking

X.602 (04/04) Information technology – Group management protocol

To be published...

X.603 (04/04) Information technology – Relayed multicast protocol: Framework

To be published...

Networking

X.605 (09/98) Information technology – Enhanced Communications Transport Service Definition

Common text with ISO/IEC

52pp E 14474 F 14475 S 14476 29 CHF

Networking

X.606 (10/01) Information technology – Enhanced communications transport protocol: Specification of simplex multicast transport

36pp E 21385 F 21386 S 21387 17 CHF

X.606.1 (02/03) Information technology – Enhanced Communications Transport Protocol: Specification of QoS management forsimplex multicast transport

46pp E 23614 F 23615 S 23616 22 CHF

Networking

X.610 (09/92) Provision and support of the OSI connection-mode Network service

26pp E 3504 F 3503 S 3505 15 CHF

X.612 (09/92) Information technology – Provision of the OSI connection-mode network service by packet-mode terminal equipment connected to an Integrated Services Digital Network (ISDN)

Common text with ISO/IEC

19pp E 3043 F 3091 S 3096 15 CHF

X.613 (09/92) Information technology – Use of X.25
 Packet Layer Protocol in conjunction with X.21/X.21 bis to provide the OSI connection-mode Network service

Common text with ISO/IEC

11pp E 3082 F 3092 S 3101 11 CHF

X.614 (09/92) Information technology – Use of X.25 Packet Layer Protocol to provide the OSI connection-mode Network service over the telephone network

Common text with ISO/IEC

9pp E 3083 F 3093 S 3102 11 CHF

X.622 (07/94) Information technology – Protocol for providing the connectionless-mode network service:
 Provision of the underlying service by an X.25
 Subnetwork

Common text with ISO/IEC

11pp E 5630 F 5950 S 5713 11 CHF

X.623 (07/94) Information technology – Protocol for providing the connectionless-mode Network service: Provision of the underlying service by a subnetwork that provides the OSI Data Link service

Common text with ISO/IEC

10pp E 5631 F 5715 S 5714 11 CHF

X.625 (10/96) Information technology – Protocol for providing the connectionless-mode Network service: Provision of the underlying service by ISDN circuit-switched B-channels

Common text with ISO/IEC

16pp E 9672 F 9673 S 9674 12 CHF

Efficiency

X.630 (09/98) Efficient Open Systems Interconnection (OSI) operations

Common text with ISO/IEC

32pp E 14427 F 14428 S 14429 17 CHF

X.633 (10/96) Information technology – Open systems interconnection – Network Fast Byte Protocol

Common text with ISO/IEC

28pp E 9882 F 9883 S 9884 17 CHF

X.633 Addendum 1 (09/98) SDL specifications

This text is published in English only. It includes one diskette containing the SDT files of the SDL specifications of the Network Fast Byte protocol

48pp E 14768 62 CHF

X.634 (10/96) Information technology – Open Systems Interconnection – Transport Fast Byte Protocol

Common text with ISO/IEC

28pp E 9885 F 9886 S 9887 17 CHF

X.634 Addendum 1 (09/98) SDL specifications

This text is published in English only.

This Annex includes one diskette containing the SDT files of the SDL specifications of the Transport Fast Byte protocol.

28pp E 14764 57 CHF

X.637 (10/96) Basic connection-oriented common upper layer requirements

24pp E 10358 F 10359 S 10360 17 CHF

X.638 (10/96) Minimal OSI facilities to support basic communications applications

56pp E 10517 F 10518 S 10519 29 CHF

X.639 (10/96) Basic connection-oriented requirements for ROSE-based profiles

16pp E 10179 F 10180 S 10181 12 CHF

Quality of service

X.641 (12/97) Information technology – Quality of service: Framework

Common text with ISO/IEC

52pp E 13037 F 13038 S 13039 29 CHF

X.642 (09/98) Information technology – Quality of service – Guide to methods and mechanisms

Common text with ISO/IEC

32pp E 14468 F 14469 S 14470 17 CHF

Naming, Addressing and Registration

X.650 (10/96) Information technology – OpenSystems Interconnection – Basic Reference Model:Naming and addressing

Common text with ISO/IEC

28pp E 9684 F 9685 S 9686 17 CHF

X.660 (09/92) Information technology – Open Systems Interconnection – Procedures for the operation of OSI Registration Authorities: General procedures

Common text with ISO/IEC

15pp E 3042 F 3090 S 3095 15 CHF

X.660 (1992) Amendment 1 (10/96) Information technology – Open Systems Interconnection – Procedures for the operation of OSI Registration Authorities: General procedures – Amend.1: Incorporation of object identifiers components

12pp E 9725 F 9726 S 9727 12 CHF

X.660 (1992) Amendment 2 (08/97) Incorporation of the root arcs of the object identifier tree

12pp E 12747 F 12748 S 12749 12 CHF

X.662 (08/97) Information technology – Open
 Systems Interconnection – Procedures for the operation of OSI Registration Authorities:
 Registration of values of RH-name-tree components for joint ISO and ITU-T use

Common text with ISO/IEC

8pp E 11735 F 11736 S 11737 9 CHF

X.665 (09/92) Information technology – Open Systems Interconnection – Procedures for the operation of OSI Registration Authorities: Application processes and application entities

Common text with ISO/IEC

6pp E 3286 F 3285 S 3287 11 CHF

X.666 (08/97) Information technology – Open
 Systems Interconnection – Procedures for the operation of OSI Registration Authorities:
 Assignment of international names for use in specific contexts

28pp E 11738 F 11739 S 11740 17 CHF

X.669 (10/96) Procedures for the operation of OSI registration authorities: Registration procedures for the ITU-T subordinate arcs

8pp E 10461 F 10462 S 10463 9 CHF

X.669 (1996) Corrigendum 1 (06/99)

To be published...

X.670 (10/96) Procedures for registration agents operating on behalf of organizations to register organization names subordinate to country names

12pp E 10445 F 10446 S 10447 12 CHF

X.671 (10/96) Procedures for a registration authority operating on behalf of countries to register organization names subordinate to country names

8pp E 10448 F 10449 S 10450 9 CHF

Abstract Syntax Notation One (ASN.1)

X.680/X.680-X.693/X.680-X.693

(07/02) Information technology – Abstract Syntax Notation One (ASN.1): Specification of basic notation

146pp E 22476 55 CHF

X.680 (2002) Amendment 1 (10/03) Support for EXTENDED-XER

To be published...

X.680-X.693/X.693 (12/01) Information technology – ASN.1 encoding rules: XML encoding rules

18pp E 21711 F 21712 S 21713 12 CHF

X.680-X.693/X.692 (03/02) Information technology – ASN.1 encoding rules: Specification of Encoding Control Notation (ECN)

An electronic version of Annex E of this Recommendation with an associated ECN Huffman encoding macro is also published independently and freely available from ITU website

196pp E 23490 F 23491 S 23492 73 CHF

X.680-X.693/X.682 (07/02) Information technology – Abstract Syntax Notation One (ASN.1): Constraint specification

18pp E 23479 12 CHF

X.680-X.693/X.681/X.680-X.693

(07/02) Information technology – Abstract Syntax Notation One (ASN.1): Information object specification

42pp E 23493 22 CHF

X.680-X.693/X.683 (07/02) Information technology – Abstract Syntax Notation One (ASN.1): Parameterization of ASN.1 specifications

22pp E 23496 17 CHF

X.680-X.693/X.690 (07/02) Information

technology – ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)

36pp E 23482 17 CHF

X.680-

X.693/X.693/X.692/X.691/X.690/X.683/X.682/X.68 1/X.680 (07/02) Information Technology – Abstract Syntax Notation One (ASN.1) & ASN.1 encoding rules

This word collective file contains automatic cross-linkings, and is available in English only. Please read carefully the readme.rtf file before opening it.

146pp E 23469 197 CHF

X.680-X.693/X.691 (07/02) Information

technology – ASN.1 encoding rules: Specification of Packed Encoding Rules (PER)

56pp E 23485 29 CHF

X.680-X.693/X.680/X.680-X.693

(07/02) Information technology – Abstract Syntax Notation One (ASN.1): Specification of basic notation

146pp E 23476 55 CHF

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(07/02) Information technology – Abstract Syntax Notation One (ASN.1): Information object specification

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X.681 (2002) Amendment 1 (10/03) Support for EXTENDED-XER

To be published...

X.682/X.680-X.693 (07/02) Information technology – Abstract Syntax Notation One (ASN.1): Constraint specification

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X.683/X.680-X.693 (07/02) Information

technology – Abstract Syntax Notation One (ASN.1): Parameterization of ASN.1 specifications

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X.690/X.680-X.693 (07/02) Information

technology – ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)

36pp E 23482 17 CHF

X.690 (2002) Amendment 1 (10/03) Support for EXTENDED-XER

To be published...

X.691/X.680-X.693 (07/02) Information technology – ASN.1 encoding rules: Specification of Packed Encoding Rules (PER)

56pp E 23485 29 CHF

X.691 (2002) Amendment 1 (10/03) Support for EXTENDED-XER

To be published...

X.691 (2002) Erratum 1 (06/03)

X.692/X.680-X.693 (03/02) Information technology – ASN.1 encoding rules: Specification of Encoding Control Notation (ECN)

An electronic version of Annex E of this Recommendation with an associated ECN Huffman encoding macro is also published independently and freely available from ITU website

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X.692 (2002) Annex E (03/02) Support for Huffman encodings

This electronic file reproduces Annex E of ITU-T Rec. X.692 (03/2002) and contains an ECN Huffman encoding macro in Visual Basic for Word 2000

X.693/X.680-X.693 (12/01) Information technology – ASN.1 encoding rules: XML encoding rules

18pp E 21711 F 21712 S 21713 12 CHF

X.693 (2001) Amendment 1 (10/03) XER encoding instructions and EXTENDED-XER

To be published...

X.694 (01/04) Information technology – ASN.1 encoding rules: Mapping W3C XML schema definitions into ASN.1

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To be published...

OSI management

Systems Management framework and architecture

X.700 (09/92) Management framework for Open Systems Interconnection (OSI) for CCITT applications

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X.701 (08/97) Information technology – Open Systems Interconnection – Systems management overview

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X.703 (1997) Amendment 1 (06/98) Support using Common Object Request Broker Architecture (CORBA)

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Management Communication Service and Protocol

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X.711 (10/97) Information technology – Open Systems Interconnection – Common management information protocol: Specification

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X.711 (1997) Technical Cor. 1 (03/99)

X.711 (1997) Technical Cor.2 (02/00)

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X.712 (09/92) Information technology – Open Systems Interconnection – Common management information protocol: Protocol Implementation Conformance Statement (PICS) proforma

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X.712 (1992) Technical Cor. 3 (06/98)

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X.720 (01/92) Information technology – Open Systems Interconnection – Structure of management information: Management information model

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X.721 (1992) Amendment 1 (08/01) States to support lifecycle

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X.733 (1992) Technical Cor. 1 (02/94)

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X.734 (1992) Amendment 1 (04/95) Implementation Conformance Statement proforms

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X.737 (11/95) Information technology – Open Systems Interconnection – Systems management: Confidence and diagnostic test categories

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X.738 (11/93) Information technology – Open Systems Interconnection – Systems management: Summarization function

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This Technical Corrigendum applies to the English electronic version of ITU-T Rec. X.744, and is available in electronic format in English only.

X.744 (1996) Technical Cor.2 (02/00)

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X.833 (04/95) Information technology – Open Systems Interconnection – Generic upper layers security: Protecting transfer syntax specification

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X.834 (10/96) Information technology – Open Systems Interconnection – Generic Upper Layers Security: Security Exchange Service Element (SESE) Protocol Implementation Conformance Statement (PICS) proforma

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X.835 (10/96) Information technology – Open Systems Interconnection – Generic Upper Layers Security: Protecting transfer syntax Protocol Implementation Conformance Statement (PICS) proforma

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X.880 (1994) Amendment 1 (11/95) Built-in operations

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X.880 (1994) Technical Cor. 1 (07/95)

X.881 (07/94) Information technology – Remote Operations: OSI realizations – Remote Operations Service Element (ROSE) service definition

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X.881 (1994) Amendment 1 (11/95) Mapping to A-UNIT-DATA service and built-in operations

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X.882 (07/94) Information technology – Remote Operations: OSI realizations – Remote Operations Service Element (ROSE) protocol specification

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X.882 (1994) Amendment 1 (11/95) Mapping to A-UNIT-DATA service and built-in operations

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X.902 (11/95) Information technology – Open distributed processing – Reference Model: Foundations

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X.904 (1997) Amendment 1 (03/00) Amendment 1: Computational formalization

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X.930 (09/98) Information technology – Open distributed processing – Interface references and binding

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To be published...

X.1121 (04/04) Framework of security technologies for mobile end-to-end communications

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White lines correspond to identical ITU-T/ISO/IEC texts. Shaded lines correspond to texts that are not identical, but that have same technical content.

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T.411	ISO/IEC 8613-1
T.412	ISO/IEC 8613-2
T.413	ISO/IEC 8613-3
T.414	ISO/IEC 8613-4
T.415	ISO/IEC 8613-5
T.416	ISO/IEC 8613-6
T.417	ISO/IEC 8613-7
T.418	ISO/IEC 8613-8
T.419	ISO/IEC 8613-9
T.421	ISO/IEC 8613-11
T.422	ISO/IEC 8613-12
T.424	ISO/IEC 8613-14
T.502	ISO/IEC ISP 10610-1
T.505	ISO/IEC ISP 11181-1
T.506	ISO/IEC ISP 11182-1
V.43	ISO/IEC TR 15294
X.200	ISO/IEC 7498-1
X.207	ISO/IEC 9545
X.208	ISO/IEC 8824
X.209	ISO/IEC 8825
X.210	ISO/IEC 10731
X.211	ISO/IEC 10022
X.212	ISO/IEC 8886
X.213	ISO/IEC 8348
X.214	ISO/IEC 8072
X.215	ISO/IEC 8326
X.216	ISO/IEC 8822
X.217	ISO/IEC 8649

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X.260 ISO/IEC 14765 X.263 ISO/IEC 9577 X.264 ISO/IEC 11570 X.273 ISO/IEC 11577 X.274 ISO/IEC 10736 X.281 ISO/IEC 13642 X.282 ISO/IEC 10742 X.283 ISO/IEC 10733 X.284 ISO/IEC 10737 X.287 ISO/IEC 10165-8 X.290 ISO/IEC 9646-1 X.291 ISO/IEC 9646-2 X.292 ISO/IEC 9646-3 X.293 ISO/IEC 9646-4 X.294 ISO/IEC 9646-5	X.256	ISO/IEC 9576-2
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X.402	ISO/IEC 10021-2
X.404	ISO/IEC 10021-11
X.411	ISO/IEC 10021-4
X.412	ISO/IEC 10021-10
X.413	ISO/IEC 10021-5
X.419	ISO/IEC 10021-6
X.420	ISO/IEC 10021-7
X.435	ISO/IEC 10021-9
X.460	ISO/IEC 11588-1
X.462	ISO/IEC 11588-3
X.467	ISO/IEC 11588-8
X.481	ISO/IEC 12062-2
X.482	ISO/IEC 10611-3
X.483	ISO/IEC 10611-4
X.484	ISO/IEC 10611-5
X.486	ISO/IEC 12063-2
X.487	ISO/IEC 12062-6
X.488	ISO/IEC 12063-5
X.500	ISO/IEC 9594-1
X.501	ISO/IEC 9594-2
X.509	ISO/IEC 9594-8
X.511	ISO/IEC 9594-3
X.518	ISO/IEC 9594-4
X.519	ISO/IEC 9594-5
X.520	ISO/IEC 9594-6
X.521	ISO/IEC 9594-7
X.525	ISO/IEC 9594-9
X.530	ISO/IEC 9594-10
X.581	ISO/IEC 14608-1
X.582	ISO/IEC 14608-2
X.583	ISO/IEC 13248-1
X.584	ISO/IEC 13248-2
X.585	ISO/IEC 13248-3
X.586	ISO/IEC 13248-4
X.605	ISO/IEC 13252
X.612	ISO/IEC 9574
X.613	ISO/IEC 10588
X.614	ISO/IEC 10732
X.622	ISO/IEC 8473-3
X.623	ISO/IEC 8473-4
X.625	ISO/IEC 8473-5

X.633	ISO/IEC 14700
X.634	ISO/IEC 14699
X.637	ISO/IEC ISP 11188-1
X.638	ISO/IEC ISP 11188-3
X.639	ISO/IEC ISP 11188-2
X.641	ISO/IEC 13236
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X.650	ISO/IEC 7498-3
X.660	ISO/IEC 9834-1
X.662	ISO/IEC 9834-3
X.665	ISO/IEC 9834-6
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X.680	ISO/IEC 8824-1
X.681	ISO/IEC 8824-2
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X.700	ISO/IEC 7498-4
X.701	ISO/IEC 10040
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X.710	ISO/IEC 9595
X.711	ISO/IEC 9596-1
X.712	ISO/IEC 9596-2
X.720	ISO/IEC 10165-1
X.721	ISO/IEC 10165-2
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X.723	ISO/IEC 10165-5
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X.725	ISO/IEC 10165-7
X.727	ISO/IEC 10165-9

X.730	ISO/IEC 10164-1
X.731	ISO/IEC 10164-2
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X.737	ISO/IEC 10164-14
X.738	ISO/IEC 10164-13
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X.743	ISO/IEC 10164-20
X.744	ISO/IEC 10164-18
X.745	ISO/IEC 10164-12
X.746	ISO/IEC 10164-15
X.748	ISO/IEC 10164-22
X.749	ISO/IEC 10164-19
X.750	ISO/IEC 10164-16
X.751	ISO/IEC 10164-17
X.753	ISO/IEC 10164-21
X.800	ISO/IEC 7498-2
X.802	ISO/IEC TR 13594
X.803	ISO/IEC 10745
X.810	ISO/IEC 10181-1
X.811	ISO/IEC 10181-2
X.812	ISO/IEC 10181-3
X.813	ISO/IEC 10181-4
X.814	ISO/IEC 10181-5
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X.816	ISO/IEC 10181-7

X.830	ISO/IEC 11586-1
X.831	ISO/IEC 11586-2
X.832	ISO/IEC 11586-3
X.833	ISO/IEC 11586-4
X.834	ISO/IEC 11586-5
X.835	ISO/IEC 11586-6
X.841	ISO/IEC 15816
X.842	ISO/IEC 14516
X.843	ISO/IEC 15945
X.851	ISO/IEC 9804
X.852	ISO/IEC 9805-1
X.853	ISO/IEC 9805-2
X.860	ISO/IEC 10026-1
X.861	ISO/IEC 10026-2
X.862	ISO/IEC 10026-3
X.863	ISO/IEC 10026-4
X.880	ISO/IEC 13712-1
X.881	ISO/IEC 13712-2
X.882	ISO/IEC 13712-3
X.901	ISO/IEC 10746-1
X.902	ISO/IEC 10746-2
X.903	ISO/IEC 10746-3
X.904	ISO/IEC 10746-4
X.910	ISO/IEC 14771
X.920	ISO/IEC 14750
X.930	ISO/IEC 14753
X.931	ISO/IEC 14752
X.950	ISO/IEC 13235-1
X.952	ISO/IEC 13235-3
X.960	ISO/IEC 14769
Z.200	ISO/IEC 9496

TRANSFERRED ITU-R CMTT RECOMMENDATIONS TO ITU-T J-SERIES

(by CMTT number order)

These Recommendations were originally developed by the ITU Radiocommunication Sector and subsequently transferred to the ITU Standardization Sector.

ITU-R Number	ITU-T Number	Approval date	Title	
CMTT 473	J.63	01/06/90	Insertion of test signals in the field-blanking interval of monochrome and colour television signals	
CMTT 474-1	J.24	26/02/82	Modulation of signals carried by sound-programme circuits by interfering signals from power supply sources	
CMTT 502	J.11	25/11/88	Hypothetical reference circuits for sound-programme transmissions	
CMTT 503	J.23	25/11/88	Performance characteristics of 7 kHz type (narrow bandwidth) sound-programme circuits	
CMTT 505	J.21	22/08/94	Performance characteristics of 15 kHz-type sound-programme circuits – Circuits for high quality monophonic and stereophonic transmissions	
CMTT 567-3	J.61	01/06/90	Transmission performance of television circuits designed for use in international connections	
CMTT 568	J.62	26/02/78	Single value of the signal-to-noise ratio for all television systems	
CMTT 569	J.64	26/02/86	Definitions of parameters for simplified automatic measure ment of television insertion test signals	
CMTT 570	J.65	26/02/78	Standard test signal for conventional loading of a television channel	
CMTT 571	J.19	25/11/88	A conventional test signal simulating sound-programm signals for measuring interference in other channels	
CMTT 572	J.66	26/02/78	Transmission of one sound programme associated with analogue television signal by means of time division multiplex in the line synchronizing pulse	
CMTT 603	J.68	26/02/82	Hypothetical reference chain for television transmission over very long distances	
CMTT 604-2	J.85	01/06/90	Digital television transmission over long distances – General principles	
CMTT 605-1	J.25	23/05/86	Estimation of transmission performance of sound-programme circuits shorter or longer than the hypothetical reference circuit	
CMTT 606-1	J.53	01/06/90	Sampling frequency to be used for the digital transmission of high-quality sound-programme signals	
CMTT 645-1	J.26	01/06/90	Test signals to be used on international sound-programme connections	

ITU-R Number	ITU-T Number	Approval date	Title	
CMTT 658-1	J.86	01/06/90	Mixed analogue-and-digital transmission of analogue composite television signals over long distances	
CMTT 659	J.51	22/08/94	General principles and user requirements for the digital transmission of high quality sound programmes	
CMTT 660	J.54	23/05/86	Transmission of analogue high-quality sound-programme signals on mixed analogue-and-digital circuits using 384 kbit/s channels	
CMTT 661-1	J.27	01/06/90	Signals for the alignment of international sound-programme connections	
CMTT 717	J.100	01/06/90	Tolerances for transmission time differences between the vision and sound components of a television signal	
CMTT 718	J.55	01/06/90	Digital transmission of high-quality sound-programme signals on distribution circuits using 480 kbit/s (496 kbit/s) per audio channel	
CMTT 719	J.56	01/06/90	Transmission of high-quality sound-programme analogue signals over mixed analogue/digital circuits at 320 kbit/s	
CMTT 720	J.101	01/06/90	Measurement methods and test procedures for teletext signals	
CMTT 721	J.80	08/09/93	Transmission of component-coded digital television signals for contribution-quality applications at bit rates near 140 Mbit/s	
CMTT 723	J.81	08/09/93	Transmission of component-coded digital television signals for contribution-quality applications at the third hierarchical level of ITU-T Recommendation G.702	
CMTT 724	J.57	01/06/90	Transmission of digital studio quality sound signals over H1 channels	
CMTT 772	J.67	22/08/94	Test signals and measurement techniques for transmission circuits carrying MAC/packet signals or HD-MAC signals	

ITU-T HANDBOOKS

Operation

Instructions for the International Telephone Service (1993)

These instructions correspond to Recommendation ITU-T E.141

Article: E 3382 F 3381 S 3383

A 5961 C 7387 R 5130 23 CHF

Network Planning

Optical Fibre System Planning Guide (1989)

Article: E 1277 F 1278 S 1279 140 CHF

Handbook on Transmission Planning (1993)

Article: E 3214 F 3213 S 3215 28 CHF

Quality of Service

Handbook on Quality of Service and Network Performance (1993)

Article: **E** 2977 **F** 2976 **S** 2978 37 CHF

Implementation Guidelines

Guidelines for Preparing and Conducting Field Trials of Digital Switching Equipments (1987)

Article: E 1116 F 1117 S 1118 20 CHF

ISDN Field Trial Guidelines (1991)

Article: E 2067 F 2066 S 2068 38 CHF

Guidelines for Implementing a Signalling System No. 7 Network (1991)

Article: E 1910 F 1909 S 1911 37 CHF

Introduction of New Technology in Local Network (1993)

Article: **E** 3343 58 CHF

Outside Plant

Protection of telecommunication buildings from fire (2002)

Article: E 19255 F 19256 S 19257 28 CHF

R 23320

Marinized Terrestrial Cables (2002)

Article: E 20502 F 20503 S 20504 34 CHF

R 22956

Outside Plant Technologies for Public Networks (1992)

Article: E 2075 F 2074 S 2076 122 CHF

Preservation of Wooden Poles Carrying Overhead Telecommunication Lines (1974)

Article: E 493 F 494 S 495 23 CHF

Jointing of Plastic-Sheathed Cables (1978)

Article: E 484 F 486 S 487 27 CHF

Jointing of Telecommunication Cable Conductors (1982)

Article: E 489 F 490 S 491 47 CHF

Optical Fibres for Telecommunications (1984)

Article: **E** 1041 **F** 1042 **S** 1043

A 4721 70 CHF

Construction, Installation, Jointing and Protection of Optical Fibre Cables (1994)

Article: **E** 3775 **F** 3774 **S** 3776

R 9590 **A** 5962 53 CHF

Application of Computers and Microprocessors to the Construction, Installation and Protection of Telecommunication Cables (1999)

Article: **E** 14517 **F** 14695 **S** 14696

A 19211 20 CHF

Protection against Electromagnetic Effects

Earthing and Bonding (2003)

Article: E 24087 F 24088 S 24089 34 CHF

Earthing of Telecommunication Installations (1976)

Article: E 497 F 498 S 499 41 CHF

Guide to the use of ITU-T publications produced by Study Group 5 aimed at achieving electromagnetic compatibility and safety (2002)

Article: E 20954 F 20955 S 20956 17 CHF

The Protection of Telecommunication Lines and Equipment Against Lightning Discharges – Chapters 1 to 5 (1974)

Article: **E** 689 **F** 690 **S** 691 85 CHF

Chapters 6, 7 and 8 (1978)

Article: **E** 693 **F** 694 **S** 695 42 CHF

Chapters 9 and 10 (1994)

Article: E 5479 F 5478 S 5480 62 CHF

Directives

Directives Concerning the Protection of Telecommunication Lines against Harmful Effects from Electric Power and Electrified Railway Lines.

Volume I: Design, construction and operational principles of telecommunication, power and electrified railway facilities (1989)

Article: E 1773 F 1764 S 1782 36 CHF

Volume II: Calculating induced voltages and currents in practical cases (1999)

Article: E 15034 F 15065 S 15068 160 CHF

Volume III: Capacitive, inductive and conductive coupling: physical theory and calculation methods (1989)

Article: E 1775 F 1766 S 1784 56 CHF

Volume IV: Inducing currents and voltages in electrified railway systems (1989)

Article: E 1776 F 1767 S 1785 62 CHF

Volume V: Inducing currents and voltages inpower transmission and distribution systems (1999)

Article: E 15071 F 15072 S 15073 24 CHF

Volume VI: Danger and disturbance (1989)

Article: E 1778 F 1769 S 1787 21 CHF

Volume VII: Protective measures and safety

precautions. (1989)

Article: E 1779 F 1770 S 1788 21 CHF

Volume VIII: Protective devices (1989)

Article: **E** 1780 **F** 1771 **S** 1789 9 CHF

Volume IX: Testing methods and measuring

apparatus (1989)

Article: E 1781 F 1772 S 1790 84 CHF

Measurement Methods

Handbook on interference measuring techniques (2002)

Article: E 20506 F 20505 S 20507 38 CHF

Handbook on Telephonometry (1993)

Article: **E** 3771 **F** 3770 **S** 3772 86 CHF

Additions to the Handbook on Telephonometry (1999)

Article: E 14626 F 14627 S 14628 12 CHF

Addition to section 2.3 of the Handbook on Telephonometry (2000)

Forthcoming

Addition to section 3 of the Handbook on Telephonometry (2000)

Article: E 20261 F 20262 S 20263 12 CHF

Compendium of Cable Measurement Methods (1984)

Article: **E** 458 **F** 471 **S** 474 40 CHF

Formal Languages

Introduction to CHILL (1993)

Only available in English

Article: **E** 3739 23 CHF

CHILL User Manual (1986)

Only available in English

Article: **E** 1055 31 CHF

CHILL Formal Definition – Volume I, Parts 1, 2, 3 (1982)

Only available in English

Article: **E** 1052 31 CHF

CHILL Formal Definition – Volume II, Part 4 (1982)

Only available in English

Article: **E** 1053 43 CHF

ITU-T SOFTWARE

The following is a list of the different software, test sequences and data published by ITU-T, and intended to test different communication equipment. Each software forms generally an integral part of a Recommendation and is published as an enclosure to it. Details about price and article number can be found in the Recommendation list. Some of these are not included in *ITU-T Recommendations on DVD-ROM*. For more information, please contact ITU Sales Services at sales@itu.int

Series	Subject
G.191 (11/00)	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 purposes
G.722 Appendix II (11/88)	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 Recommendation includes an electronic attachment containing the reference code (release 1.2) and the test vectors for ITU-T G.722.1 algorithm implementation verification. This release includes the corrections indicated in corrigendum 1 (11/2000)
G.722.1 Annex B (11/00)	This annex includes an electronic attachment containing the reference code and the test vectors for ITU-T G.722.1/Annex B floating-point algorithm implementation verification
G.722.1 Annex C (03/04)	
G.722.1 Annex D (07/03)	
G.723.1 Annex A (11/96)	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 (11/96)	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
G.723.1 Annex C (11/96)	This Annex includes one diskette containing the reference code and the test vectors for implementation verification of the scalable channel coding scheme
G.726 Appendix II	
test vectors (03/91)	This document corresponds to G.726 Appendix II. It includes 2 diskettes containing respectively the A-Law and μ -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)

Series	Subject
G.727 Appendix I	
test vectors (03/91)	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.728 Annex H (05/99)	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 J (09/99)	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	
Software (07/95)	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.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 (02/00)	This Annex includes 1 electronic attachment containing source code and test sequences for implementation verification of the algorithm of the G.729 Silence compression scheme version 1.4, which reflects modifications given in Corrigendum 2 (02/2000)
G.729 Annex B (1996)	
Corrigendum 2 (02/00)	This Corrigendum concerns only the software; the resulting version 1.4 is included in the published ITU-T Recommendation G.729 Annex B (10/1996)
G.729 Annex C (09/98)	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
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 6.4/8/11.8 kbit/s with DTX functionality
G.729 Annex D (02/00)	This Annex includes one electronic attachment containing version 1.3 of source C code for fixed point implementation of the G.729 6.4 kbit/s CS-ACELP speech coder, which reflects modifications given in Corrigendum 1 (02/2000)

Series Subject **G.729 Annex D (1998)** Corrigendum 1 (02/00) This corrigendum concerns only the software; the resulting version 1.3 is included in the published ITU-T Recommendation G.729 Annex D (09/1998) **G.729 Annex E (09/98)** This Annex includes one electronic attachment containing version 1.3 of source C code and test vectors for fixed point implementation of the G.729 11.8 kbit/s CS-ACELP speech coder, which reflects modifications given in Corrigendum 1 (02/2000) **G.729 Annex E (1998)** Corrigendum 1 (02/00) This corrigendum concerns only the software; the resulting version 1.3 is included in the published ITU-T Recommendation G.729 Annex D (09/1998) **G.729 Annex E (1998)** Corrigendum 1 (02/00) This corrigendum concerns only the software; the resulting version 1.3 is included in the published ITU-T Recommendation G.729 Annex E (09/1998)**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 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 without 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 μ -Law test vectors for DCME verification. The second one contains example transmit/receive SDLs. Covering note, May 2000: Erratum G.763 Appendix I (10/98) This appendix includes one diskette containing information on the additional requirements G.776.1 (10/98) This Recommendation includes one diskette containing the information model of Signal Processing Network Elements (SPNE) G.967.1 (06/98) This Recommendation includes one diskette containing the SDL process diagrams corresponding to the VB5.1 reference point

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P.50 Appendix I (02/98)	This Appendix includes one CD-ROM containing the speech database for telephonometry applications. Not available through Electronic Bookshop. To purchase, please contact Sales@itu.int
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P.834 (07/02)	
P.861 (02/98) Withdrawn (07/01)	P.861 was recognized as having certain limitations in specific areas of application. It was replaced by P.862, which contains an improved objective speech quality assessment algorithm. P.861 included one diskette containing test vectors for implementation verification of the PSQM algorithm
P.862 (02/01)	
P.862 Amendment 1 (2001)	
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Q.1248.7 (07/01)	
Q.1600 <i>bis</i> (12/99)	This Recommendation includes an electronic attachment containing the ATS in machine processable form and in pdf form for ISUP'97/INAP CS-1 interaction
Q.1950 (07/01) Withdrawn	

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Q.2991.1 (12/99)	This Recommendation includes an electronic attachment containing Test Purpose list for network integration testing
Q.2991.2 (12/99)	This Recommendation includes an electronic attachment containing the ATS in machine processable form and in pdf form for network integration testing
T.24 (06/98)	This Recommendation includes 2 CD-ROMs containing the digitized image set. Due to the data large volume, this Recommendation is not downloadable from the Electronic Bookshop and should be provided from ITU Sales department (Email Sales@itu.int). ITU-T Rec. T.24 text is downloadable free of charge for information purpose. The specimens reproduced inside this text are given for illustration purposes and are not suitable for measurements.
T.24 Amendment 1 (02/00)	
T.83 (11/94)	This Recommendation includes 3 diskettes containing compliance test data for the generic encoder and decoder compliance tests
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T.804 (08/02)	
T.870 (03/02)	This Recommendation includes an electronic attachment containing the data set used for implementing the JPEG-LS T.870 extension conformance test
V.56 <i>ter</i> (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 text is published in English only. It includes one diskette containing the SDT files of the SDL specifications of the Network Fast Byte protocol
X.634 Add.1 (09/98)	This text is published in English only. This Annex includes one diskette containing the SDT files of the SDL specifications of the Transport Fast Byte protocol

ITU-T TEST CHARTS

The following is a list of the different test charts published by ITU-T, and intended to test different facsimile communication equipment. The test charts conform to severe quality constraints and are published separately. The specimens reproduced inside Recommendations are given for illustration purposes and are not suitable for measurements.

T.22 (03/93) - Test Chart No. 4: Black and white facsimile test chart BW01

 302×222 mm high contrast bi-level chart containing text in a variety of languages, fonts and pitches and various black and white patterns. This test chart exists in two qualities:

Test chart No. 4, high quality 4530 12 CHF

Test chart No. 4, standard quality 5494 5 CHF

T.22 (03/93) - Test Chart No. 5: Continuous tone facsimile test chart CT01

 279×216 mm gray scale chart containing several strips and patches of various gray scale levels, and two photographs.

Test chart No. 5 11941 26 CHF

T.23 (04/94) - Test Chart No. 6: 4-colour printing facsimile test chart 4CP01

 302×222 mm full colour chart printed from 4-colour separation negatives, containing a complete range of patterns, textures, shadings and bright and pastel colours.

Test chart No. 6 10465 9 CHF

T.24 (06/98) - Standardized digitized image set on CD-ROM

This digitized test chart set is an integral part of Recommendation T.24 and is published with it. The 2 CD-ROMs include a set of digitized images with different resolutions:

- eight black and white ITU-T reference pages (the "CCITT images")
- test chart No. 4 (BW01)
- one legibility test chart
- seven bi-level half tones images made by processing gray scale images with different algorithms
- test chart No. 5 (CT01)
- two gray-scale images
- test chart No. 6 (4CP01)
- 14 colour images with different resolutions and in different coulour spaces (YUV, CMYK, RGB, CIELAB)
- low contrast gray scale images

Rec. + CD-ROM **E** 16670 **F** 16671 **S** 16672 154 CHF

OTHER ITU-T PRODUCTS

ITU Operational Bulletin (2004) (printed versions, electronic version and online service)

2004

The ITU Operational Bulletin is a fortnightly service publication, prepared under the responsibility of the Telecommunication Standardization Bureau (TSB). Published on the 1st and 15th of each month, it contains the administrative and operational information exchanged between administrations/ recognized operating agencies (ROAs) and other service providers, entities and organizations, in respect of the international telecommunication services made available to users, including information relating to the maritime mobile service. Various lists containing the codes, numbers or indicators allocated to countries and operators to meet the operational needs of international telecommunication services are published in annex to the Operational Bulletin.

Separate edition in E, F, S

385 CHF

Paper - Online - Electronic Bookshop

Lists annexed to Operational Bulletin

Note from the TSB

The following Lists* have been published by TSB or BR as Annexes to the ITU Operational Bulletin (OB):

OB No.	Title	Price
707	List of International Signalling Point Codes (ISPC) (According to ITU-T Recommendation Q.708 (03/99)) (Position on 1 January 2000)	20 CHF
711	List of Signalling Area/Network Codes (SANC) (Complement to ITU-T Recommendation Q.708 (03/99)) (Position on 1 March 2000)	20 CHF
714	List of ITU Carrier Codes (According to ITU-T Recommendation M.1400) (02/2000) Position on 15 April 2000 and List of Data Network Identification Codes (DNIC) (According to ITU-T Recommendation X.121) (Position 15 April 2000)	20 CHF
717	List of ITU-T Recommendation E.164 assigned country codes (Position on 1 June 2000)	20 CHF
719	Dialling Procedures (International prefix, national (trunk) prefix and national (significant) number) (In accordance with ITU-T Recommendation E.164 (05/97)) (Position on 1 July 2000)	20 CHF
720	List of Data Country or Geographical Area Codes (Complement to ITU-T Recommendation X.121) (Position on 15 July 2000)	20 CHF
725	List of names of administration management domains (ADMD) (In accordance with ITU-T F.400 and X.400 series Recommendations) (Position on 30 September 2000)	20 CHF
727	List of issuer identifier numbers for the international telecommunication charge card (In accordance with ITU-T Recommendation E.118) (Position on 1 November 2000)	20 CHF

OB No.	Title	Price
735	List of international signalling point codes (ISPC) (According to ITU-T Recommendation Q.708 (03/99)) (Position on 1 March 2001)	20 CHF
737	List of signalling area/network codes (SANC) (Position on 1 April 2001)	20 CHF
739	List of ITU carrier codes (According to ITU-T Recommendation M.1400 (02/2000))	20 CHF
741	List of mobile country or geographical area codes (Position on 1 June 2001)	20 CHF
746	Access codes/numbers for mobile networks (According to ITU-T Recommendation E.164 (05/97)) (Position on 15 August 2001)	20 CHF
	List of data network identification codes (DNIC) (According to ITU-T Recommendation X.121 (10/00)) (Position on 15 August 2001)	
757	List of issuer identifier numbers for the international telecommunication charge card (in accordance with ITU-T Recommendation E.118) (Position on 1 February 2002)	20 CHF
759	Dialling Procedures (International prefix, national (trunk) prefix and national (significant) number) (In accordance with ITU-T Recommendation E.164 (05/97)) (Position on 1 March 2002)	20 CHF
761	List of international signalling point codes (ISPC) (According to ITU-T Recommendation Q.708 (03/99)) (Position on 1 april 2002)	20 CHF
763	List of ITU-T Recommendation E.164 assigned country codes (Position on 1 May 2002)	20 CHF
764	List of telegram destination indicators (In accordance with ITU-T Recommendation F.32) (Position on 15 May 2002)	20 CHF
765	Access codes/numbers for mobile networks (According to ITU-T Recommendation E.164) (Position on 1 June 2002)	20 CHF
766	List of country or geographical area codes for non-standard facilities in telematic services (Position on 15 June 2002)	20 CHF
767	List of signalling area/network codes (SANC) (Position on 1 July 2002)	20 CHF
	BR: Status of radiocommunications between amateur stations of different countries (In accordance with optional provision No. 25.1 of the Radio Regulations) and form of call signs assigned by each administration to its amateur and experimental stations (Position on 1 July 2002)	
777	List of data network identification codes (DNIC) (According to ITU-T Recommendation X.121) (Position on 1 December 2002)	20 CHF
781	Various tones used in national networks (According to ITU-T Recommendation E.180)(03/1998) (Position on 1 February 2003)	20 CHF
783	List of mobile country or geographical area codes (Position on 1 March 2003)	20 CHF
785	List of issuer identifier numbers for the international telecommunication charge card (In accordance with ITU-T Recommendation E.118) (Position on 1 April 2003)	20 CHF

OB No.	Title	Price
787	Dialling procedures (International prefix, national (trunk) prefix and national (significant) number) (In accordance with ITU-T Recommendation E.164 (05/97)) (Position on 1 May 2003)	20 CHF
789	Access codes/numbers for mobile networks (According to ITU-T Rec. E.164) (Position on 1June 2003)	20 CHF
797	Q.708 (03/99)) (Position on 1 October 2003)	20 CHF
798	List of data network identification codes (DNIC) (According to ITU-T Recommendation X.121) (Position on 15 October 2003)	20 CHF
799	List of signalling area/network codes (SANC) (Position on 1 November 2003)	20 CHF
801	Mobile Network Code (MNC) for the international identification plan for mobile terminals and mobile users (According to ITU-T Rec. E.212 (11/98)) (Position on 1 December 2003)	20 CHF
803	List of mobile country or geographical area codes (Position on 1 January 2004)	20 CHF
805	List of ITU-T Recommendation E.164 assigned country codes (Position on 1 February 2004)	20 CHF

^{*} For information, all lists will be updated by numbered series of amendments published in the ITU Operational Bulletin, and will be reissued as necessary.

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⁽www.itu.int/itu-t/bulletin/index.html) in the ITU document database, under the heading "Operational Bulletin and Lists annexed".

ITU-T Sancho – (ITU-T Sector Abbreviations and defiNitions for a teleCommunications tHesaurus Oriented database)

1999

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