



LIST OF
ITU-T
RECOMMENDATIONS

LIST OF ITU-T RECOMMENDATIONS

Edition 2003-1

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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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**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, within established ITU budgets, there is provision 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 191). Pre-published and superseded ITU-T Recommendations are now also available via the yearly online subscription service and the Electronic Bookshop.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 181.

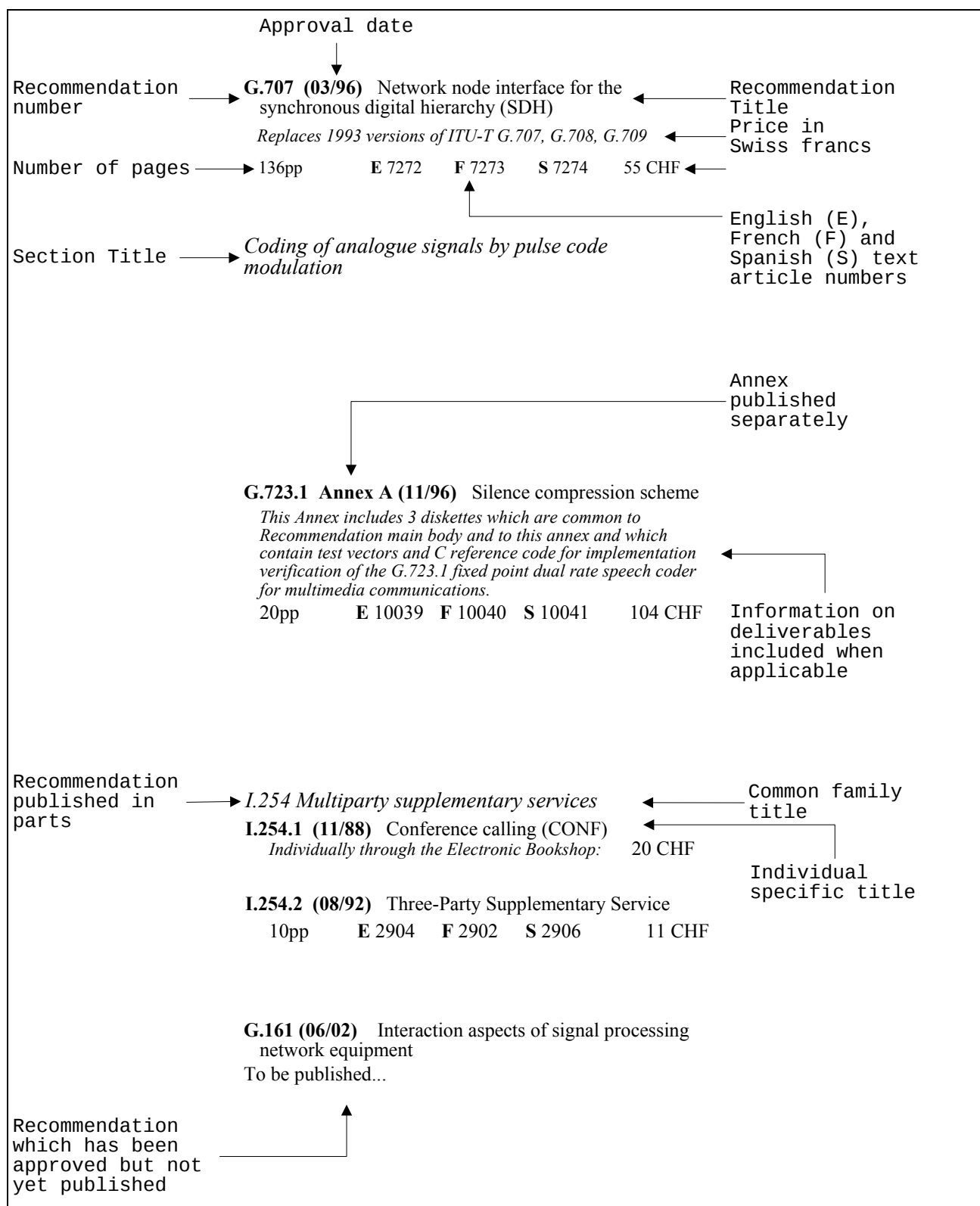
Other Recommendations describe test charts intended to test graphic communication systems. Test charts of special quality with different resolutions may be ordered separately from the ITU Sales Service, since the specimens reproduced in those Recommendations are generally not suited for measurements. The available test charts are listed on page 186.

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 CD-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

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 (10/00) Provisional working procedures for the Special Study Group on IMT-2000 and Beyond

Free of charge from the Electronic Bookshop

10pp E 20217 F 20218 S 20219 9 CHF

A.11 (10/00) Analytical method to calculate visibility statistics for non-geostationary satellite orbit satellites as seen from a point on the Earth's surface

Free of charge from the Electronic Bookshop

12pp E 20220 F 20221 S 20222

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 transferred 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 (01/03) IETF and ITU-T collaboration guidelines

Available as a prepublished version Free of charge from the Electronic Bookshop

To be published...

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 “one-stop 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.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 multi-address 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

Individually through the Electronic Bookshop: 20 CHF

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.93 (04/00) Charging and accounting in the international land mobile telephone service (provided via cellular radio systems)

20pp E 19974 F 19975 S 19976 17 CHF

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

28pp 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 Amendment 1 (12/02) New Appendix to Annex C: Guidelines

To be published...

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

12pp E 22809 F 22810 S 22811 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.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

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 (UII) 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 switched-transit 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: 20 CHF

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: 20 CHF

*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

Individually through the Electronic Bookshop: 20 CHF

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2pp E 4668 F 4667 S 4669 8 CHF

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8pp E 5163 F 5221 S 5256 11 CHF

*Recommendations applicable in Asia and Oceania***D.602R (12/02)** General principles regarding call-back practices

8pp E 23045 F 23046 S 23047 9 CHF

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- E.140 (08/92)** Operator-assisted telephone service
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- E.141 (03/93)** Instructions for operators on the operator-assisted international telephone service
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- E.149 (11/88)** Presentation of routing data
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- 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
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- E.151 (08/92)** Telephone conference calls
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- E.152 (02/01)** International freephone service
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- ### Numbering plan of the international telephone service
- E.160 (03/93) Withdrawn (05/97)**
 Definitions relating to national and international numbering plans
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- 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
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- 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)
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E.164 (05/97) The international public telecommunication numbering plan

Replaces former E.163 numbering plan

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Numbering plan and dialling procedures in the international service

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E.164.1 (03/98) Criteria and procedures for the reservation, assignment and reclamation of E.164 country codes and associated Identification Codes (ICs)

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

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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

Available as a prepublished versionTo be published...

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

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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

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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

13pp 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)

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

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International routing plan

E.170 (10/92) Traffic routing

8pp E 3277 F 3276 S 3278 8 CHF

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E.172 (10/92) ISDN routing plan
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E.190 (05/97) Principles and responsibilities for the
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 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 Corrigendum 1 (02/02)
*Published as a covering note. Cancels erratum of
 March 2001*

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
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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
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 9pp E 2335 F 2313 S 2357 10 CHF

E.202 (10/92) Network operational principles for
 future public mobile systems and services
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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.213 (11/88) Telephone and ISDN numbering plan
 for land mobile stations in public land mobile
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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) Telephone/ISDN numbering plan for the mobile-satellite services of Inmarsat

20pp E 11828 F 11829 S 11830 17 CHF

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

Selection procedures for the INMARSAT mobile-satellite 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

To be published...

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

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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

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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

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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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12pp E 21894 F 21894 S 21894 9 CHF

E.300 Series Supplement 2 (01/94) Various tones used in national networks

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ISDN provisions concerning users

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

This Recommendation is published under alias number Z.323

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E.360.4 (05/02) QoS routing & related traffic engineering methods – routing table management methods & requirements
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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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E.417 (02/01) Framework for the network management of IP-Based networks
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E.432 (06/92) Connection quality
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E.434 (06/92) Subscriber-to-subscriber measurement of the public switched telephone network
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E.438 (03/00) Performance parameters and measurement methods to assess N-ISDN 64 kbit/s circuit switched bearer service UDI in operation
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E.439 (03/00) Test call measurement to assess N-ISDN 64 kbit/s circuit-switched bearer service UDI in operation
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E.457 (02/96) Facsimile measurement methodologies
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E.490 (06/92) Traffic measurement and evaluation – General survey
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E.490.1 (01/03) Overview of Recommendations on traffic engineering
To be published...

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E.492 (02/96) Traffic reference period
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E.493 (02/96) Grade of service (GOS) monitoring
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20pp E 3386 F 3385 S 3387 15 CHF

Determination of the number of circuits in manual operation

E.510 (11/88) Withdrawn (09/02)
Determination of the number of circuits in manual operation
This Recommendation was deleted since it has not been updated since 1988 and is no longer of interest
Individually through the Electronic Bookshop: 20 CHF

Determination of the number of circuits in automatic and semi-automatic operation

E.520 (11/88) Number of circuits to be provided in automatic and/or semiautomatic operation, without overflow facilities
Individually through the Electronic Bookshop: 20 CHF

E.521 (11/88) Calculation of the number of circuits in a group carrying overflow traffic
Individually through the Electronic Bookshop: 20 CHF

E.522 (11/88) Number of circuits in a high-usage group
Individually through the Electronic Bookshop: 20 CHF

E.523 (11/88) Standard traffic profiles for international traffic streams
Individually through the Electronic Bookshop: 20 CHF

E.524 (05/99) Overflow approximations for non-random inputs
16pp E 16094 F 16095 S 16096 12 CHF

E.525 (06/92) Designing networks to control grade of service
7pp E 2816 F 2781 S 2851 11 CHF

E.526 (03/93) Dimensioning a circuit group with multi-slot bearer services and no overflow inputs
5pp E 4949 F 4948 S 4950 8 CHF

E.527 (03/00) Dimensioning at a circuit group with multi-slot bearer services and overflow traffic
16pp E 18543 F 18544 S 18545 12 CHF

E.528 (02/96) Dimensioning of digital circuit multiplication equipment (DCME) systems
20pp E 7311 F 7312 S 7313 17 CHF

E.529 (05/97) Network dimensioning using end-to-end GOS objectives
40pp E 11997 F 11998 S 11999 22 CHF

Grade of service

E.540 (11/88) Overall grade of service of the international part of an international connection
Individually through the Electronic Bookshop: 20 CHF

E.541 (11/88) Overall grade of service for international connections (subscriber-to-subscriber)
Individually through the Electronic Bookshop: 20 CHF

E.543 (11/88) Grades of service in digital international telephone exchanges
Individually through the Electronic Bookshop: 20 CHF

E.550 (03/93) Grade-of-service and new performance criteria under failure conditions in international telephone exchanges
9pp E 5074 F 5073 S 5075 11 CHF

Definitions

E.600 (03/93) Terms and definitions of traffic engineering
16pp E 4162 F 4161 S 4163 15 CHF

Traffic engineering for IP-networks

E.651 (03/00) Reference connections for traffic engineering of IP access networks
12pp E 18201 F 18202 S 18203 12 CHF

E.671 (03/00) Post-selection delay in PSTN/ISDN using Internet telephony for a portion of the connection
12pp E 18128 F 18129 S 18130 12 CHF

E.681 (10/01) Traffic engineering methods for IP access networks based on hybrid fiber/coax system
18pp E 22458 F 22459 S 22460 12 CHF

ISDN traffic engineering

- E.700 (10/92)** Framework of the E.700-Series Recommendations
1pp E 3310 F 3309 S 3311 8 CHF
- E.701 (10/92)** Reference connections for traffic engineering
2pp E 3289 F 3288 S 3290 8 CHF
- E.710 (10/92) Withdrawn (10/96)**
ISDN traffic modelling overview
Deleted after its content became technically out of date
- E.711 (10/92)** User demand modelling
9pp E 3323 F 3322 S 3324 11 CHF
- E.712 (10/92)** User plane traffic modelling
14pp E 3313 F 3312 S 3314 11 CHF
- E.713 (10/92)** Control plane traffic modelling
Only the title changes
8pp E 3389 F 3388 S 3390 8 CHF
- E.716 (10/96)** User demand modelling in Broadband-ISDN
16pp E 9917 F 9918 S 9919 12 CHF
- E.720 (11/88)** ISDN grade of service concept
Individually through the Electronic Bookshop: 20 CHF
- E.721 (05/99)** Network grade of service parameters and target values for circuit-switched services in the evolving ISDN
12pp E 16014 F 16015 S 16016 12 CHF
- E.723 (06/92)** Grade-of-service parameters for Signalling System No. 7 networks
5pp E 2820 F 2785 S 2855 8 CHF
- E.724 (02/96)** GOS parameters and target GOS objectives for IN services
12pp E 7154 F 7155 S 7156 12 CHF
- E.726 (03/00)** Network grade of service parameters and target values for B-ISDN
20pp E 18275 F 18276 S 18277 17 CHF
- E.728 (03/98)** Grade-of-service parameters for B-ISDN signalling
12pp E 13002 F 13003 S 13004 12 CHF
- E.730 (10/92) Withdrawn (10/96)**
ISDN dimensioning methods overview
Deleted after its content became technically out of date
- E.731 (10/92)** Methods for dimensioning resources operating in circuit-switched mode
10pp E 3429 F 3428 S 3430 11 CHF

- E.733 (11/98)** Methods for dimensioning resources in Signalling System No. 7 networks
20pp E 14639 F 14640 S 14641 17 CHF
- E.734 (10/96)** Methods for allocating and dimensioning Intelligent Network (IN) resources
28pp E 9859 F 9860 S 9861 17 CHF
- E.735 (05/97)** Framework for traffic control and dimensioning in B-ISDN
32pp E 11985 F 11986 S 11987 17 CHF
- E.736 (03/00)** Methods for cell level traffic control in B-ISDN
36pp E 18649 F 18650 S 18651 22 CHF
- E.737 (02/01)** Dimensioning methods for B-ISDN
46pp E 21020 F 21021 S 21022 22 CHF
- E.743 (04/95)** Traffic measurements for SS No. 7 dimensioning and planning
3pp E 6004 F 6003 S 6005 8 CHF
- E.744 (10/96)** Traffic and congestion control requirements for SS No. 7 and IN-structured networks
16pp E 9920 F 9921 S 9922 12 CHF
- E.745 (03/00)** Cell level measurement requirements for the B-ISDN
20pp E 18646 F 18647 S 18648 17 CHF

Mobile network traffic engineering

- E.750 (03/00)** Introduction to the E.750 series of Recommendations on traffic engineering aspects of networks supporting personnal communications services
16pp E 18546 F 18547 S 18548 12 CHF
- 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 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 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 7 (11/88) Guide for evaluating and implementing alternate routing networks

Individually through the Electronic Bookshop: 20 CHF

E.800 Series Supplement 1 (11/88) Table of the Erlang formula

Individually through the Electronic Bookshop: 20 CHF

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

Individually through the Electronic Bookshop: 20 CHF

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 8 CHF

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

Individually through the Electronic Bookshop: 20 CHF

Use of quality of service objectives for planning of telecommunication networks

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

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
Individually through the Electronic Bookshop: 20 CHF

SERIES F **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
Individually through the Electronic Bookshop: 20 CHF

F.4 (11/88) Plain and secret language
Individually through the Electronic Bookshop: 20 CHF

F.10 (11/88) Character error rate objective for telegraph communication using 5-unit start-stop equipment
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 transferred 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: 20 CHF

F.14 (08/92) General provisions for one-stop-shopping arrangements
2pp E 2878 F 2870 S 2886 8 CHF

F.15 (08/92) Evaluating the success of new services
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 service information
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 gentex network

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
Individually through the Electronic Bookshop: 20 CHF

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
Individually through the Electronic Bookshop: 20 CHF

The international telemesssage service

F.40 (03/91) International public telemesssage service
Formerly Rec. F.50.
 10pp E 1954 F 1953 S 1955 10 CHF

F.41 (03/91) Interworking between the telemesssage 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: 20 CHF

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 abolishment of a number of service documents

Individually through the Electronic Bookshop: 20 CHF

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: 20 CHF

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

Routing table for offices connected to the gentex service

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

Individually through the Electronic Bookshop: 20 CHF

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

Table of international telex relations and traffic

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

Individually through the Electronic Bookshop: 20 CHF

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.

Individually through the Electronic Bookshop: 20 CHF

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
 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
Individually through the Electronic Bookshop: 20 CHF

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.182bis (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: 20 CHF

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: 20 CHF

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: 20 CHF

Videotex service

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: 20 CHF

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

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

Available as a prepublished version

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: 20 CHF

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
56pp 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 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
To be published

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

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

Individually through the Electronic Bookshop: 20 CHF

F.702 (07/96) Multimedia conference services
32pp E 9771 F 9772 S 9773 17 CHF

F.703 (11/00) Multimedia conversational services
20pp E 18874 F 18875 S 18876 17 CHF

F.710 (03/91) Withdrawn (05/98)
General principles for audiographic conference service

The content of this Recommendation is superseded by ITU-T F.702 on multimedia

12pp E 1997 F 1996 S 1998 10 CHF

F.711 (08/93) Withdrawn (05/98)
Audiographic conference teleservice for ISDN
The content of this Recommendation is superseded by ITU-T F.731 on multimedia

8pp E 4686 F 4685 S 4687 11 CHF

F.720 (08/92) Videotelephony services – General
9pp E 3133 F 3132 S 3134 11 CHF

F.721 (08/92) Videotelephony teleservice for ISDN
10pp E 3115 F 3114 S 3116 11 CHF

F.723 (07/96) Videophone service in the Public Switched Telephone Network (PSTN)
8pp E 7447 F 7448 S 7449 9 CHF

F.730 (08/92) Withdrawn (05/98)
Videoconference service – General
The content of this Recommendation is superseded by ITU-T F.702 on multimedia
14pp E 3124 F 3123 S 3125 11 CHF

F.731 (07/97) Multimedia Conference Services in the ISDN
12pp E 11815 F 11816 S 11817 12 CHF

F.732 (10/96) Multimedia conference services in the B-ISDN
28pp E 11073 F 11074 S 11075 17 CHF

F.740 (08/93) Audiovisual interactive services
9pp E 4689 F 4688 S 4690 11 CHF

F.761 (11/88) Service-oriented requirements for telewriting applications
Published as F.730 (11/88), then renumbered as F.761.
Individually through the Electronic Bookshop: 20 CHF

ISDN services

F.811 (07/96) Broadband connection-oriented bearer service
 24pp E 9752 F 9753 S 9754 22 CHF

F.812 (08/92) Broadband connectionless data bearer service
 6pp E 3136 F 3135 S 3137 8 CHF

F.813 (02/95) Virtual path service for reserved and permanent communications
 13pp E 5998 F 5997 S 5999 11 CHF

Universal personal telecommunication

F.850 (03/93) Principles of universal personal telecommunication (UPT)
 2pp E 3681 F 3680 S 3682 8 CHF

F.851 (02/95) Universal Personal Telecommunication (UPT) – Service description (service set 1)
 27pp E 6022 F 6021 S 6023 15 CHF

F.852 (03/00) Universal personal telecommunication (UPT) – Service description (service set 2)
 44pp E 18624 F 18625 S 18626 22 CHF

F.853 (11/98) Supplementary services in the Universal Personal Telecommunication (UPT) environment
 16pp E 14604 F 14605 S 14606 12 CHF

Human factors

F.901 (03/93) Usability evaluation of telecommunication services
 5pp E 3735 F 3734 S 3736 8 CHF

F.902 (02/95) Interactive services design guidelines
 5pp E 5876 F 5875 S 5877 8 CHF

F.910 (02/95) Procedures for designing, evaluating and selecting symbols, pictograms and icons
 7pp E 5970 F 5969 S 5971 11 CHF

Supplements to the Series F Recommendations

Suppl. 1 (11/88) Definitions relating to telegraph, telematic and data transmission services 20 CHF

Suppl. 2 (11/88) Terms and definitions for telex 20 CHF

SERIES G

Transmission systems and media, digital systems and networks

International telephone connections and circuits

General definitions

G.100 (02/01) Definitions used in Recommendations on general characteristics of international telephone connections and circuits
 38pp E 21183 F 21184 S 21185 22 CHF

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
 7pp E 4662 F 4661 S 4663 11 CHF

G.100 Series Supplement 32 (03/93) Transmission aspects of digital mobile radio systems
 7pp E 4811 F 4810 S 4812 11 CHF

International telephone connections and circuits

General definitions

G.100.1 (11/01) The use of the decibel and of relative levels in speechband telecommunications
 36pp E 22417 F 22418 S 22419 17 CHF

G.101 (08/96) The transmission plan
 40pp E 9926 F 9927 S 9928 22 CHF

G.101 Appendix I (05/00) A computational model for guidance in transmission planning
 4pp E 19644 F 19645 S 19646 9 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

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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.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 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

To be published...

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 I_e and packet-loss robustness factor B_{pl}

10pp E 22649 F 22650 S 22651 9 CHF

G.114 (05/00) One-way transmission time

24pp E 19385 F 19386 S 19387 17 CHF

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

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

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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.123 (11/88) Withdrawn (03/99)
Circuit noise in national networks

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

Individually through the Electronic Bookshop: 20 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 (08/96) Control of talker echo

12pp E 9871 F 9872 S 9873 12 CHF

G.131 Appendix II (09/99) Relation between echo disturbances under single talk and double talk conditions (evaluated for one-way transmission time of 100 ms)

12pp E 17604 F 17605 S 17606 9 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**Individually through the Electronic Bookshop:* 20 CHF**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

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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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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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16pp E 4108 F 4107 S 4109 15 CHF

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

To be published...

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 17 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*Individually through the Electronic Bookshop:* 20 CHF**G.215 (11/88)** Hypothetical reference circuit of 5000 km for analogue systems*Individually through the Electronic Bookshop:* 20 CHF*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
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- 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
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Translating equipment used on various carrier-transmission 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
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- G.232 (11/88)** 12-channel terminal equipments
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- G.233 (11/88)** Recommendations concerning translating equipments
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- 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.
Individually through the Electronic Bookshop: 20 CHF
- G.242 (11/88)** Through-connection of groups, supergroups, etc.
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- 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
Individually through the Electronic Bookshop: 20 CHF
- G.323 (11/88) Withdrawn (03/93)**
 A typical transistorized system on symmetric cable pairs
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G.324 (10/76) Withdrawn (03/93)

General characteristics for valve-type systems on symmetric cable pairs

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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

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

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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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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

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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

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

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Additional Recommendations on cable systems

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

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

FDM carrier systems for submarine cable

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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

Individually through the Electronic Bookshop: 20 CHF

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

Individually through the Electronic Bookshop: 20 CHF

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

Individually through the Electronic Bookshop: 20 CHF

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

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Hypothetical reference circuits

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

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

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

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

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

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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

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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

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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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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 radio-telephone circuits

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

Principles of the devices used to achieve privacy in radiotelephone conversations

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Individually through the Electronic Bookshop: 20 CHF

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: 20 CHF

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

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

Specification of loading coils for loaded telecommunication cables

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Individually through the Electronic Bookshop: 20 CHF

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

Specification for repeater sections of loaded telecommunication cable

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Individually through the Electronic Bookshop: 20 CHF

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

Specifications for terminal equipment and intermediate repeater stations

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Transmission media characteristics

General

G.601 (11/88) Terminology for cables

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

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

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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

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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 star-quad cables designed earlier for analogue transmission systems and being used now for digital system transmission at bit rates of 6 to 34 Mbit/s

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

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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

Individually through the Electronic Bookshop: 20 CHF

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

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Individually through the Electronic Bookshop: 20 CHF

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.650.2 (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

Optical fibre cables

G.651 (02/98) Characteristics of a 50/125 µm multimode graded index optical fibre cable
36pp E 13535 F 13536 S 13537 22 CHF

G.652 (10/00) Characteristics of a single-mode optical fibre cable
20pp E 19587 F 19588 S 19589 17 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

Optical fibre cables

G.655 (10/00) Characteristics of a non-zero dispersion shifted single-mode optical fibre cable
24pp E 19958 F 19959 S 19960 17 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 Amendment 1 (01/03) Amendements to Appendix II
To be published

Characteristics of optical components and subsystems

G.664 (07/99) Optical safety procedures and requirements for optical transport systems
16pp E 16396 F 16397 S 16398 12 CHF

Characteristics of optical components and subsystems

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

Characteristics of optical components and subsystems

G.691 (10/00) Optical interfaces for single-channel STM-64, STM-256 and other SDH systems with optical amplifiers
53pp E 20187 F 20188 S 20189 22 CHF

G.692 (10/98) Optical interfaces for multichannel systems with optical amplifiers
40pp E 14418 F 14419 S 14420 22 CHF

G.692 Corrigendum 1 (01/00)

Characteristics of optical components and subsystems

G.692 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

Characteristics of optical components and subsystems

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 (06/02) Spectral grids for WDM applications: CWDM wavelength grid
12pp E 22398 F 22399 S 22400 9 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

Available as a prepublished version

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

G.707/Y.1322 (10/00) Network node interface for the synchronous digital hierarchy (SDH)

180pp E 20454 F 20455 S 20456 73 CHF

General

G.707/Y.1322 Amendment 1 (11/01) Amendment 1

16pp E 21761 F 21762 S 21763 12 CHF

G.707/Y.1322 Amendment 2 (08/02) Amendment 2

16pp E 22717 F 22718 S 22719 12 CHF

General

G.707/Y.1322 Corrigendum 1 (03/01)

To be published...

General

G.707/Y.1322 Corrigendum 2 (11/01)

G.707/Y.1322 Erratum 1 (09/02)

2pp

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

G.709/Y.1331 (02/01) Interfaces for the Optical Transport Network (OTN)

84pp E 20824 F 20825 S 20826 34 CHF

General

G.709/Y.1331 Amendment 1 (11/01)

53pp E 22593 F 22594 S 22595 29 CHF

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: 20 CHF

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: 20 CHF

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: 20 CHF

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: 20 CHF

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: 20 CHF

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

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

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)

24pp 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 Corrigendum 1 (11/00)

G.722.2 (01/02) Wideband coding of speech at around 16 kbit/s using Adaptive Multi-rate Wideband (AMR-WB)

72pp E 22382 F 22383 S 22384 34 CHF

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

G.722.2 Annex C (01/02) Fixed-point C-code

This Annex includes an electronic attachment containing version 5.3.0 of the fixed-point C-code for the G.722.2 adaptive multi-rate wideband (AMR-WB) speech transcoder

E 22335 F 22336 S 22337 67 CHF

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 12 CHF

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

28pp E 22236 F 22237 S 22238 17 CHF

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

To be published...

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

18pp E 22227 F 22228 S 22229 12 CHF

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: 20 CHF

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

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 (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 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 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 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+ 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 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 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 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 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 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

Individually through the Electronic Bookshop: 20 CHF

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

To be published...

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

Available as a republished version

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 Amendment 1 (06/02) Amendment 1
20pp E 23064 F 23065 S 23066 12 CHF

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 cross-connect equipment with 2048 kbit/s access ports
10pp E 2992 F 2985 S 2999 11 CHF

G.796 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 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

Suppl. 32 (11/88) Transfer of alarm information on 60-channel transmultiplexing equipment

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
58pp E 20094 F 20095 S 20096 29 CHF

G.806 (10/00) Characteristics of Transport Equipment – Description Methodology and Generic Functionality
86pp E 20199 F 20200 S 20201 34 CHF

G.807/Y.1302 (07/01) Requirements for automatic switched transport networks (ASTN)
22pp E 20720 F 20721 S 20722 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 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 (08/96) Timing characteristics of SDH equipment slave clocks (SEC)
36pp E 9774 F 9775 S 9776 22 CHF

G.813 Corrigendum 1 (11/01)

Quality and availability targets

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
To be published...

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 17 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

To be published...

G.827 (03/00) Availability parameters and objectives for path elements of international constant bit-rate digital paths at or above the primary rate

20pp E 19761 F 19762 S 19763 17 CHF

G.827.1 (11/00) Availability performance objectives for end-to-end international constant bit-rate digital paths at or above the primary rate

16pp 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 Corrigendum 1 (07/01)

G.829 (12/02) Error performance events for SDH multiplex and regenerator sections

To be published...

Network capabilities and functions

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

SDH network characteristics

G.841 (10/98) Types and characteristics of SDH network protection architectures

140pp E 15794 F 15795 S 15796 55 CHF

G.841 Corrigendum 1 (08/02)

SDH network characteristics

G.842 (04/97) Interworking of SDH network protection architectures

36pp E 12034 F 12035 S 12036 22 CHF

Management of transport network

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

12pp E 15696 F 15697 S 15698 12 CHF

G.852.12 (03/99) Enterprise viewpoint for pre-provisioned link management

16pp E 15699 F 15700 S 15701 12 CHF

G.852.16 (01/01) Enterprise viewpoint for pre-provisioned route discovery

14pp E 20413 F 20414 S 20415 12 CHF

G.853.1 (03/99) Common elements of the information viewpoint for the management of a transport network

60pp E 15961 F 15962 S 15963 29 CHF

G.853.2 (11/96) Subnetwork connection management information viewpoint

20pp E 11775 F 11778 S 11779 17 CHF

G.853.3 (03/99) Information viewpoint for topology management

16pp E 15778 F 15779 S 15780 12 CHF

G.853.6 (03/99) Information viewpoint for trail management

12pp E 15702 F 15703 S 15704 12 CHF

G.853.8 (03/99) Information viewpoint for pre-provisioned adaptation management

20pp E 15883 F 15884 S 15885 17 CHF

G.853.10 (03/99)	Information viewpoint for pre-provisioned link connection management			
12pp	E 15889	F 15890	S 15891	12 CHF
G.853.12 (03/99)	Information viewpoint for pre-provisioned link management			
12pp	E 15880	F 15881	S 15882	12 CHF
G.853.16 (01/01)	Information viewpoint for pre-provisioned route discovery			
17pp	E 20416	F 20417	S 20418	17 CHF
G.854.1 (11/96)	Computational interfaces for basic transport network model			
24pp	E 11043	F 11044	S 11045	17 CHF
G.854.3 (03/99)	Computational viewpoint for topology management			
36pp	E 15751	F 15752	S 15753	22 CHF
G.854.6 (03/99)	Computational viewpoint for trail management			
32pp	E 15760	F 15761	S 15762	17 CHF
G.854.8 (03/99)	Computational viewpoint for pre-provisioned adaptation management			
32pp	E 15877	F 15878	S 15879	17 CHF
G.854.10 (03/99)	Computational viewpoint for pre-provisioned link connection management			
20pp	E 15754	F 15755	S 15756	17 CHF
G.854.12 (03/99)	Computational viewpoint for pre-provisioned link management			
16pp	E 15763	F 15764	S 15765	12 CHF
G.854.16 (01/01)	Computational viewpoint for pre-provisioned route discovery			
18pp	E 20473	F 20474	S 20475	12 CHF
G.855.1 (03/99)	GDMO engineering viewpoint for the generic network level model			
30pp	E 15934	F 15935	S 15936	17 CHF
SDH radio and satellite systems integration				
G.861 (08/96)	Principles and guidelines for the integration of satellite and radio systems in SDH transport networks			
20pp	E 10824	F 10825	S 10826	17 CHF

Internet protocol aspects

Transport

G.871/Y.1301 (10/00)	Framework of Optical Transport Network Recommendations			
15pp	E 19928	F 19929	S 19930	12 CHF

Digital networks

Telecommunications management network

G.872 (11/01)	Architecture of optical transport networks			
72pp	E 22537	F 22538	S 22539	34 CHF
G.874 (11/01)	Management aspects of the optical transport network element			
64pp	E 22280	F 22281	S 22282	29 CHF
G.874.1 (01/02)	Optical transport network (OTN): Protocol-neutral management information model for the network element view			
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			
<i>Individually through the Electronic Bookshop:</i>				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			
<i>Individually through the Electronic Bookshop:</i>				20 CHF

Digital line transmission systems on cable at non-hierarchical bit rates

G.931 (11/88)	Withdrawn (05/02)		
Digital line sections at 3152 kbit/s			
<i>This Recommendation 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'.</i>			
<i>Individually through the Electronic Bookshop:</i>			20 CHF

Digital line systems provided by FDM transmission bearers

G.941 (11/88) Digital line systems provided by FDM transmission bearers

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Digital line systems

G.950 (11/88) General considerations on digital line systems

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G.951 (11/88) Digital line systems based on the 1544 kbit/s hierarchy on symmetric pair cables

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G.952 (11/88) Digital line systems based on the 2048 kbit/s hierarchy on symmetric pair cables

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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

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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

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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: 20 CHF

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.959.1 (02/01) Optical transport network physical layer interfaces

50pp E 21376 F 21377 S 21378 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

134pp E 4102 F 4101 S 4103 20 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 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 17 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.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
20pp E 20246 F 20247 S 20248 17 CHF

G.976 (10/00) Test methods applicable to optical fibre submarine cable systems
36pp E 19925 F 19926 S 19927 22 CHF

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 Amendment 1 (11/01) Amendment 1
20pp E 22001 F 22002 S 22003 12 CHF

G.983.1 Corrigendum 1 (07/99)

G.983.2 (06/02) ONT management and control interface specification for ATM PON
To be published...

G.983.2 Amendment 1 (11/01)
Never published, consolidated in G.983.2 (06/2002)
To be published...

G.983.2 Amendment 2 (11/01)

Never published, consolidated in G.983.2 (06/2002)
To be published...

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 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.983.5 (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.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

Access networks

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 (02/01) Single-Pair High-Speed Digital Subscriber Line (SHDSL) transceivers
176pp E 21998 F 21999 S 22000 73 CHF

G.991.2 Amendment 1 (11/01)
18pp E 22404 F 22405 S 22406 12 CHF

G.992.1 (07/99) Asymmetrical digital subscriber line (ADSL) transceivers
252pp E 17821 F 17822 S 17823 96 CHF

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
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Optical line systems for local and access networks

G.992.1 Corrigendum 1 (11/01)

G.992.1 Corrigendum 2 (07/02)

G.992.2 (07/99) Splitterless asymmetric digital subscriber line (ADSL) transceivers

176pp	E 17666	F 17667	S 17668	73 CHF
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G.992.2 Corrigendum 1 (07/02)

G.992.3 (07/02) Asymmetric digital subscriber line transceivers – 2 (ADSL2)

To be published...

G.992.4 (07/02) Splitterless asymmetric digital subscriber line transceivers – 2 (Splitterless ADSL2)

To be published...

G.993.1 (11/01) Very high speed digital subscriber line foundation

52pp	E 22274	F 22275	S 22276	22 CHF
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Access networks

G.994.1 (07/02) Handshake procedures for digital subscriber line (DSL) transceivers

To be published...

G.995.1 (02/01) Overview of digital subscriber line (DSL) Recommendations

36pp	E 21048	F 21049	S 21050	17 CHF
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Optical line systems for local and access networks

G.995.1 Amendment 1 (11/01)

12pp	E 21937	F 21938	S 21939	9 CHF
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Access networks

G.996.1 (02/01) Test procedures for digital subscriber line (DSL) transceivers

86pp	E 21320	F 21321	S 21322	39 CHF
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G.997.1 (07/99) Physical layer management for digital subscriber line (DSL) transceivers

48pp	E 16540	F 16541	S 16542	22 CHF
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Supplements to Sections 8 and 9 of the Series G Recommendations

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
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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
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G.1000 (11/01) Communications Quality of Service: A framework and definitions

16pp	E 21742	F 21743	S 21744	12 CHF
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G.1010 (11/01) End-user multimedia QoS categories

18pp	E 21883	F 21884	S 21885	12 CHF
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G.7041/Y.1303 (12/01) Generic framing procedure (GFP)

51pp	E 22590	F 22591	S 22592	22 CHF
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G.7041/Y.1303 Amendment 1 (06/02) Amendment 1

12pp	E 22726	F 22727	S 22728	9 CHF
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G.7042/Y.1305 (11/01) Link capacity adjustment scheme (LCAS) for virtual concatenated signals

24pp	E 21947	F 21948	S 21949	17 CHF
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G.7042/Y.1305 Corrigendum 1 (06/02)

G.7710/Y.1701 (11/01) Common equipment management function requirements

88pp	E 22596	F 22597	S 22598	39 CHF
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G.7712/Y.1703 (11/01) Architecture and specification of data communication network

45pp	E 22599	F 22600	S 22601	22 CHF
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G.7713/Y.1704 (12/01) Distributed call and connection management (DCM)

74pp	E 22912	F 22913	S 22914	34 CHF
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G.7714/Y.1705 (11/01) Generalized automatic discovery techniques
16pp E 21414 F 21415 S 21416 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.8080/Y.1304 (11/01) Architecture for the automatic switched optical networks (ASON)
48pp E 22221 F 22222 S 22223 22 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 Amendment 1 (06/02)
60pp E 22874 F 22875 S 22876 29 CHF

G.8251 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
Deleted after its content became technically out of date
Individually through the Electronic Bookshop: 20 CHF

H.13 (11/88) Withdrawn (06/98)
Impulsive noise measuring instrument for telephone-type 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
Deleted after its content became technically out of date
Individually through the Electronic Bookshop: 20 CHF

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
Deleted after its content became technically out of date
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)
Deleted after its content became technically out of date
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 telephone-type 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

Individually through the Electronic Bookshop: 20 CHF

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 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: 20 CHF

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

Characteristics of visual telephone systems**H.222.0 Amendment 1 (12/02)**

To be published...

H.222.0 Amendment 1 Erratum (01/03)

To be published...

Infrastructure of audiovisual services**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

Available as a prepublished version

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

H.225.0 (11/00) Call signalling protocols and media stream packetization for packet-based multimedia communication systems

251pp E 21633 F 21634 S 21635 96 CHF

H.225.0 Amendment 1 (11/02) Revised Annex G: Communication between administrative domains
To be published...**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

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

To be published...

H.235 (11/00) Security and encryption for H-Series (H.323 and other H.245-based) multimedia terminals
96pp E 20612 F 20613 S 20614 39 CHF

Communication procedures

H.235 Annex F (03/02) Hybrid security profile
20pp E 22258 F 22259 S 22260 12 CHF

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.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 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 (02/03) Control protocol for multimedia communication
To be published...

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

H.246 Annex C (02/00) ISDN User Part Function – H.225.0 Interworking
80pp E 18498 F 18499 S 18500 34 CHF

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 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 Annex G (11/00) 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

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 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 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 Annex K (11/00) Generic Announcement package

This Annex was renumbered as Rec. H.248.7 on 2002-03-29 without further modification

H.248 Annex M2 (07/01) Annex M2: Media Gateway resource congestion handling package

This Recommendation was renumbered as H.248.10 on 2002-03-29 without further modification

10pp E 20828 F 20829 S 20830 9 CHF

H.248 Annex M4 (07/01) Annex M4: H.248 packages for H.323 and H.324 interworking

30pp E 20891 F 20892 S 20893 17 CHF

H.248 Supplement 1 (06/01) H.248 packages guide – Release 1

This Supplement was renumbered as Supplement 2 to H-series Recommendations when revised on 2002-02-15

Freely available on ITU website in electronic format only

To be published...

H.248 Supplement 2 (06/01) H.248 packages guide release 1 Supplement 2

Available as a prepublished version

To be published...

H.248.1 (05/02) Gateway control protocol

To be published...

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.248.3 (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.248.4 (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.248.5 (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.248.6 (11/00) 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.248.7 (11/00) Gateway control protocol: Generic
announcement package

This Recommendation was first approved and published as Annex K to H.248, and then renumbered as H.248.7 on 2002-03-29 without further modification

11pp E 22169 F 22170 S 22171 9 CHF

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.248.9 (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.248.11 (11/02) Gateway control protocol: Media
gateway overload control package

To be published...

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 Amendment 1 (11/02) New Annex A:
Extended H.324, H.245 command and H.245
indication packages

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:
Extended DTMF detection package

To be published...

H.248.17 (11/02) Gateway control protocol: Line test
package

To be published...

H.248.18 (11/02) Gateway control protocol: Package
for support of multiple profiles

To be published...

H.248.20 (11/02) Gateway control protocol: The use of local and remote descriptors with H.221 & H.223 multiplexing
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 Amendment 1 (11/00) Amendment 1: Video elementary stream content description data
Common text with ISO/IEC
2pp E 19813 F 19814 S 19815 17 CHF

H.262 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 Appendix II (06/01) Appendix II: 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

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

H.282 (05/99) Remote device control protocol for multimedia applications
76pp E 16742 F 16743 S 16744 34 CHF

H.283 (05/99) Remote device control logical channel transport
20pp E 16661 F 16662 S 16663 17 CHF

Systems and terminal equipment for audiovisual services

H.310 (09/98) Broadband audiovisual communication systems and terminals
68pp E 14273 F 14274 S 14275 34 CHF

H.320 (05/99) Narrow-band visual telephone systems and terminal equipment
32pp E 16664 F 16665 S 16666 17 CHF

H.321 (02/98) Adaptation of H.320 visual telephone terminals to B-ISDN environments
28pp E 13459 F 13460 S 13461 17 CHF

H.322 (03/96) Visual telephone systems and terminal equipment for local area networks which provide a guaranteed quality of service
8pp E 7316 F 7317 S 7318 9 CHF

H.323 (11/00) Packet-based multimedia communications systems
It includes main text, of Annexes A to G, J, K, L, M.1, M.2 and Appendices I, II, III, IV and V
260pp E 21784 F 21785 S 21786 96 CHF

H.323 Annex M3 (07/01) Tunnelling of DSS1 through H.323
Available as a prepublished version
12pp E 21037 F 21038 S 21039 9 CHF

Infrastructure of audiovisual services

Systems and terminal equipment for audiovisual services

H.323 Annex P (01/03) Transfer of modem signals over H.323
To be published...

H.323 Annex Q (07/01) Far-end camera control and H.281/H.224
12pp E 20807 F 20808 S 20809 9 CHF

H.323 Annex R (07/01) Robustness methods for H.323 entities
32pp E 21576 F 21577 S 21578 17 CHF

H.324 (03/02) Terminal for low bit-rate multimedia communication
78pp E 22325 F 22326 S 22327 34 CHF

H.324 Corrigendum 1 (11/02)

H.331 (03/93) Broadcasting type audiovisual multipoint systems and terminal equipment
5pp E 4084 F 4083 S 4085 8 CHF

H.332 (09/98) H.323 extended for loosely coupled conferences
24pp E 14308 F 14309 S 14310 17 CHF

H.341 (05/99) Multimedia management information base
This Recommendation includes one diskette containing the formal descriptions of Annexes A, B, C, D and E for the multimedia management information base.
E 17360 F 17361 S 17362 50 CHF

Supplementary services for multimedia

H.450.1 (02/98) Generic functional protocol for the support of supplementary services in H.323
24pp E 13262 F 13263 S 13264 17 CHF

H.450.2 (02/98) Call transfer supplementary service for H.323
48pp E 13538 F 13539 S 13540 22 CHF

H.450.3 (02/98) Call diversion supplementary service for H.323
68pp E 13528 F 13529 S 13530 34 CHF

H.450.4 (05/99) Call hold supplementary service for H.323
28pp E 16830 F 16831 S 16832 17 CHF

H.450.5 (05/99) Call park and call pickup supplementary services for H.323
Covering note, May 2000: Erratum
56pp E 16908 F 16909 S 16910 29 CHF

Infrastructure of audiovisual services

Supplementary services for multimedia

H.450.5 Erratum (05/00) Erratum to Recommendation ITU-T H.450.5 (05/99)

H.450.5 Erratum 2 (04/02) Erratum 2

H.450.6 (05/99) Call waiting supplementary service for H.323
16pp E 16776 F 16777 S 16778 12 CHF

H.450.7 (05/99) Message waiting indication supplementary service for H.323
28pp E 16911 F 16912 S 16913 17 CHF

H.450.8 (02/00) Name identification supplementary service for H.323
12pp E 17818 F 17819 S 17820 12 CHF

H.450.9 (11/00) Call Completion Supplementary Services for H.323
66pp E 20267 F 20268 S 20269 29 CHF

H.450.10 (03/01) Call offering supplementary services for H.323
30pp E 20706 F 20707 S 20708 17 CHF

H.450.11 (03/01) Call intrusion supplementary services
64pp E 20743 F 20744 S 20745 29 CHF

H.450.12 (07/01) Common Information Additional Network Feature for H.323
34pp E 21040 F 21041 S 21042 17 CHF

H.460.1 (03/02) Guidelines for the use of the generic extensible framework
22pp E 22423 F 22424 S 22425 17 CHF

Supplementary services for multimedia

H.460.2 (07/01) Number Portability interworking between H.323 and SCN networks
16pp E 20960 F 20961 S 20962 12 CHF

Supplementary services for multimedia

H.460.3 (11/02) Circuit maps within H.323 systems
To be published...

H.460.4 (11/02) Call Priority Designation for H.323 calls
To be published...

H.460.5 (11/02) H.225.0 transport of multiple Q.931 IE of the same type
To be published...

H.460.6 (11/02) Extended Fast Connect feature
To be published...

H.460.7 (11/02) Digit maps within H.323 systems
To be published...

H.460.8 (11/02) Querying for alternate routes within H.323 systems
To be published...

H.460.9 (11/02) Support for real-time QoS monitoring
To be published...

Mobility and Collaboration procedures

Mobility and Collaboration procedures

Overview of Mobility and Collaboration, definitions, protocols and procedures

H.501 (03/02) Protocol for mobility management and intra/inter-domain communication in multimedia systems
46pp E 22624 F 22625 S 22626 22 CHF

Mobility for H-Series multimedia systems and services

H.510 (03/02) Mobility for H.323 multimedia systems and services
34pp E 22548 F 22549 S 22550 17 CHF

Security for mobile multimedia collaboration applications and services

H.530 (03/02) Symmetric security procedures for H.323 mobility in H.510
30pp E 22542 F 22543 S 22544 17 CHF

Supplements to the Series H Recommendations

Suppl. 1 (05/99) Application profile – Sign language and lip-reading real-time conversation using low bit-rate video communication
This Supplement includes one CD-ROM containing the video clip 'Irene' to be used as test material for video coding of sign language.
16pp E 16654 F 16655 S 16656 137 CHF

Suppl. 2 (02/03) H.248.1 packages guide – Release 2
The former Supplement 1 to Rec. H.248 was renumbered as Supplement 2 to H-series Recommendations when revised on 2002-02-15. Freely available on ITU website in electronic format only
18pp E 22464 F 22465 S 22466 9 CHF

SERIES I Integrated services digital network

General structure

Terminology

I.110 (11/88) Withdrawn (03/93)
Preamble and general structure of the I-Series Recommendations for the integrated services digital network (ISDN)
Deleted after its content became technically out of date
Individually through the Electronic Bookshop: 20 CHF

I.111 (11/88) Withdrawn (03/93)
Relationship with other Recommendations relevant to ISDNs
Deleted after its content became technically out of date
Individually through the Electronic Bookshop: 20 CHF

I.112 (03/93) Vocabulary of terms for ISDNs
16pp E 3844 F 3843 S 3845 15 CHF

I.112 Appendix I (02/02) General telecommunication terminology and definitions
8pp E 22198 F 22199 S 22201 9 CHF

I.113 (06/97) Vocabulary of terms for broadband aspects of ISDN
32pp E 11687 F 11688 S 11689 17 CHF

I.114 (03/93) Vocabulary of terms for universal personal telecommunication
4pp E 3726 F 3725 S 3727 8 CHF

Description of ISDNs

I.120 (03/93) Integrated services digital networks (ISDNs)
2pp E 3814 F 3813 S 3815 8 CHF

I.121 (04/91) Broadband aspects of ISDN
2pp E 2009 F 2008 S 2010 7 CHF

I.122 (03/93) Framework for frame mode bearer services
1pp E 3655 F 3654 S 3656 8 CHF

General modelling methods

I.130 (11/88) Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN
Individually through the Electronic Bookshop: 20 CHF

Telecommunication network and service attributes

I.140 (03/93) Attribute technique for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN
16pp E 4032 F 4031 S 4033 15 CHF

I.141 (11/88) ISDN network charging capabilities attributes
Individually through the Electronic Bookshop: 20 CHF

General description of asynchronous transfer mode

I.150 (02/99) B-ISDN asynchronous transfer mode functional characteristics
16pp E 16116 F 16117 S 16118 12 CHF

Service capabilities

Scope

- I.200 (11/88)** Guidance to the I.200-Series of Recommendations
Individually through the Electronic Bookshop: 20 CHF

General aspects of services in ISDN

- I.210 (03/93)** Principles of telecommunication services supported by an ISDN and the means to describe them
28pp E 3902 F 3901 S 3903 15 CHF
- I.211 (03/93)** B-ISDN service aspects
13pp E 3802 F 3801 S 3803 11 CHF

Common aspects of services in the ISDN

- I.220 (11/88)** Common dynamic description of basic telecommunication services
Individually through the Electronic Bookshop: 20 CHF
- I.221 (03/93)** Common specific characteristics of services
4pp E 3805 F 3804 S 3806 8 CHF

Bearer services supported by an ISDN

- I.230 (11/88)** Definition of bearer service categories
Individually through the Electronic Bookshop: 20 CHF

I.231 Circuit-mode bearer service categories

- I.231.1 (11/88)** Circuit-mode 64 kbit/s unrestricted, 8 kHz structured bearer service
Individually through the Electronic Bookshop: 20 CHF
- I.231.2 (11/88)** Circuit-mode 64 kbit/s, 8 kHz structured bearer service usable for speech information transfer
Individually through the Electronic Bookshop: 20 CHF
- I.231.3 (11/88)** Circuit-mode 64 kbit/s, 8 kHz structured bearer service usable for 3.1 kHz audio information transfer
Individually through the Electronic Bookshop: 20 CHF
- I.231.4 (11/88)** Circuit-mode, alternate speech / 64 kbit/s unrestricted, 8 kHz structured bearer service
Individually through the Electronic Bookshop: 20 CHF
- I.231.5 (11/88)** Circuit-mode 2 × 64 kbit/s unrestricted, 8 kHz structured bearer service
Individually through the Electronic Bookshop: 20 CHF

- I.231.6 (07/96)** Circuit-mode 384 kbit/s unrestricted, 8 kHz structured bearer service
8pp E 9600 F 9607 S 9608 9 CHF

- I.231.7 (07/96)** Circuit-mode 1536 kbit/s unrestricted, 8 kHz structured bearer service
8pp E 9609 F 9610 S 9611 9 CHF

- I.231.8 (07/96)** Circuit-mode 1920 kbit/s unrestricted, 8 kHz structured bearer service
8pp E 9612 F 9613 S 9614 9 CHF

- I.231.9 (03/93)** Circuit-mode 64 kbit/s 8 kHz structured multi-use bearer service
6pp E 4180 F 4179 S 4181 11 CHF

- I.231.10 (08/92)** Circuit-mode multiple-rate unrestricted 8 kHz structured bearer service
5pp E 2915 F 2911 S 2919 8 CHF

I.232 Packet-mode bearer services categories

- I.232.1 (11/88)** Virtual call and permanent virtual circuit bearer service category
Individually through the Electronic Bookshop: 20 CHF

- I.232.2 (11/88)** Connectionless bearer service category

Empty Recommendation Note – This connectionless bearer service category is a different concept from, and should not be confused with, the OSI Connectionless Mode Network Service. Thus, the name of this service may change as the service is better defined. Further aspects of this bearer service category are for further study.

This service has only been identified and requires further study

- I.232.3 (03/93)** User signalling bearer service category (USBS)
13pp E 4216 F 4215 S 4217 11 CHF

I.233 Frame mode bearer services

- I.233.1 (10/91)** ISDN frame relaying bearer service
Published with ITU-T I.233.2.
34pp E 2597 F 2633 S 2664 20 CHF

- I.233.1 Annex F (07/96)** Frame relay multicast
16pp E 7326 F 7327 S 7328 12 CHF

- I.233.2 (10/91)** ISDN frame switching bearer service
Published with ITU-T I.233.1.
18pp E 2597 F 2633 S 2664 20 CHF

- I.240 (11/88)** Definition of teleservices
Individually through the Electronic Bookshop: 20 CHF

I.241 Teleservices supported by an ISDN

I.241.1 (11/88)	Telephony				
	<i>Individually through the Electronic Bookshop:</i>	20	CHF		
I.241.2 (11/88)	Teletex				
	<i>Individually through the Electronic Bookshop:</i>	20	CHF		
I.241.3 (11/88)	Telefax 4				
	<i>Individually through the Electronic Bookshop:</i>	20	CHF		
I.241.4 (11/88)	Mixed mode				
	<i>Individually through the Electronic Bookshop:</i>	20	CHF		
I.241.5 (11/88)	Videotex				
	<i>Individually through the Electronic Bookshop:</i>	20	CHF		
I.241.6 (11/88)	Telex				
	<i>Individually through the Electronic Bookshop:</i>	20	CHF		
I.241.7 (03/93)	Telephony 7 kHz teleservice				
	5pp E 3868 F 3867 S 3869	8	CHF		
I.241.8 (10/95)	Teleaction stage one service description				
	16pp E 6503 F 6504 S 6505	11	CHF		

Supplementary services in ISDN

I.250 (11/88)	Definition of supplementary services				
	<i>Individually through the Electronic Bookshop:</i>	20	CHF		

I.251 Number identification supplementary services

I.251.1 (08/92)	Direct-dialling-In				
	4pp E 2831 F 2796 S 2866	8	CHF		
I.251.2 (08/92)	Multiple Subscriber Number				
	5pp E 2824 F 2789 S 2859	8	CHF		
I.251.3 (08/92)	Calling Line Identification Presentation				
	9pp E 2827 F 2792 S 2862	11	CHF		
I.251.4 (08/92)	Calling Line Identification Restriction				
	16pp E 2832 F 2797 S 2867	7	CHF		
I.251.5 (02/95)	Connected Line Identification Presentation (COLP)				
	7pp E 5900 F 5899 S 5901	11	CHF		
I.251.6 (02/95)	Connected Line Identification Restriction (COLR)				
	6pp E 5903 F 5902 S 5904	8	CHF		
I.251.7 (08/92)	Malicious call Identification				
	8pp E 2825 F 2790 S 2860	8	CHF		
I.251.8 (08/92)	Sub-addressing supplementary service				
	6pp E 2826 F 2791 S 2861	8	CHF		

I.251.9 (07/96)	Calling name identification presentation				
	16pp E 7397 F 7398 S 7399	12	CHF		

I.251.10 (07/96)	Calling name identification restriction				
	16pp E 7362 F 7363 S 7364	12	CHF		

I.252 Call offering supplementary services

I.252.1 (11/88)	Call Transfer				
	<i>Individually through the Electronic Bookshop:</i>	20	CHF		

I.252.2 (08/92)	Call Forwarding Busy				
	15pp E 2895 F 2892 S 2898	11	CHF		

I.252.3 (08/92)	Call Forwarding No Reply				
	9pp E 2896 F 2893 S 2899	11	CHF		

I.252.4 (08/92)	Call Forwarding Unconditional				
	11pp E 2897 F 2894 S 2900	11	CHF		

I.252.5 (08/92)	Call Deflection				
	9pp E 2903 F 2901 S 2905	11	CHF		

I.252.6 (11/88)	Call offering supplementary services: Line Hunting (LH)				
	<i>Individually through the Electronic Bookshop:</i>	20	CHF		

I.252.7 (05/97)	Explicit call transfer				
	16pp E 12144 F 12145 S 12146	12	CHF		

I.253 Call completion supplementary services

I.253.1 (11/88)	Call waiting (CW) supplementary service				
	12pp E 1896 F 1895 S 1897	10	CHF		

I.253.2 (08/92)	Call Hold				
	8pp E 2883 F 2875 S 2891	8	CHF		

I.253.3 (07/96)	Completion of calls to busy subscribers				
	28pp E 7424 F 7425 S 7426	17	CHF		

I.253.4 (07/96)	Completion of calls on no reply				
	24pp E 7400 F 7401 S 7402	17	CHF		

I.254 Multiparty supplementary services

I.254.1 (11/88)	Conference calling (CONF)				
	<i>Individually through the Electronic Bookshop:</i>	20	CHF		

I.254.2 (08/92)	Three-Party Supplementary Service				
	10pp E 2904 F 2902 S 2906	11	CHF		

I.254.5 (05/97)	Meet-me conference				
	12pp E 11988 F 11989 S 11990	12	CHF		

I.255 Community of interest supplementary services

I.255.1 (08/92)	Closed User Group			
14pp	E 2916	F 2912	S 2920	11 CHF
I.255.2 (07/96)	Support of Private Numbering Plans			
12pp	E 7499	F 7500	S 7501	12 CHF
I.255.3 (07/90)	Multi-level precedence and preemption service (MLPP)			
9pp	E 1899	F 1898	S 1900	10 CHF
I.255.4 (07/90)	Priority service			
6pp	E 1902	F 1901	S 1903	7 CHF
I.255.5 (08/92)	Outgoing call barring			
6pp	E 2917	F 2913	S 2921	8 CHF

I.256 Charging supplementary services

I.256.1 (11/88)	Credit Card Calling (CRED)			
<i>Empty Recommendation. This subject has only been identified and is left for further study.</i>				
<i>Individually through the Electronic Bookshop:</i>				20 CHF
I.256.2a (03/93)	Advice of charge: charging information at call set-up time (AOC-S)			
9pp	E 4207	F 4206	S 4208	11 CHF
I.256.2b (03/93)	Advice of charge: charging information during the call (AOC-D)			
8pp	E 4210	F 4209	S 4211	11 CHF
I.256.2c (03/93)	Advice of charge: charging information at the end of the call (AOc-E)			
7pp	E 4219	F 4218	S 4220	11 CHF
I.256.3 (08/92)	Reverse charging			
10pp	E 2986	F 2979	S 2993	11 CHF

I.257 Additional information transfer

I.257.1 (10/95)	User-to-User Signalling (UUS)			
20pp	E 6518	F 6519	S 6520	15 CHF

I.258 Mobility and modification supplementary services

I.258.1 (10/95)	Terminal portability (TP)			
12pp	E 6612	F 6613	S 6614	11 CHF
I.258.2 (02/95)	In-call modification (IM)			
12pp	E 5906	F 5905	S 5907	11 CHF

I.259 Screening supplementary services

I.259.1 (07/96)	Address screening (ADS)			
12pp	E 7427	F 7428	S 7429	12 CHF

Supplements to the Series I Recommendations

Suppl. 1 (03/98)	Generic service descriptions for ten supplementary services defined in I.250 – Series Recommendations			
32pp	E 13516	F 13517	S 13518	17 CHF

Overall network aspects and functions

Network functional principles

I.310 (03/93)	ISDN – Network functional principles			
18pp	E 3874	F 3873	S 3875	15 CHF
I.311 (08/96)	B-ISDN general network aspects			
40pp	E 11046	F 11047	S 11048	22 CHF

I.311 Amendment 1 (03/00)				
4pp	E 19320	F 19321	S 19322	9 CHF

I.312/Q.1201 (10/92) Principles of intelligent network architecture				
<i>This Recommendation is published with the double number Q.1201 and I.312</i>				
37pp	E 3246	F 3245	S 3247	20 CHF

I.313 (09/97)	B-ISDN network requirements			
40pp	E 12490	F 12491	S 12492	22 CHF

Reference models

I.320 (11/93)	ISDN protocol reference model				
15pp	E 5175	F 5229	S 5264	11 CHF	
I.321 (04/91)	B-ISDN protocol reference model and its application				
<i>Covering note, May 2000: Erratum</i>					
7pp	E 2054	F 2053	S 2055	10 CHF	

I.322 (02/99)	Generic protocol reference model for telecommunication networks			
20pp	E 15611	F 15612	S 15613	17 CHF

I.324 (10/91)	ISDN network architecture			
17pp	E 2599	F 2628	S 2659	15 CHF

I.325 (03/93)	Reference configurations for ISDN connection types			
13pp	E 3905	F 3904	S 3906	11 CHF

I.326 (11/88)	Withdrawn (03/93)			
Reference configuration for relative network resource requirements				
<i>Deleted after its content became technically out of date</i>				

I.326 (11/95) Functional architecture of transport networks based on ATM

20pp E 7042 F 7043 S 7044 17 CHF

I.327 (03/93) B-ISDN functional architecture

11pp E 3871 F 3870 S 3872 11 CHF

I.328/Q.1202 (09/97) Intelligent network – Service plane architecture

This Recommendation is published with the double number Q.1202 and I.328

24pp E 12967 F 12968 S 12969 17 CHF

I.329/Q.1203 (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

I.330 (11/88) ISDN numbering and addressing principles

Individually through the Electronic Bookshop: 20 CHF

Numbering, addressing and routing

I.331 (05/97) The international public telecommunication numbering plan

This Recommendation is published under alias number E.164

E 11877 F 11878 S 11879 17 CHF

I.333 (03/93) Terminal selection in ISDN

32pp E 4072 F 4071 S 4073 20 CHF

I.334 (11/88) Principles relating ISDN numbers/sub-addresses to the OSI reference model network layer addresses

Individually through the Electronic Bookshop: 20 CHF

I.335 (11/88) Withdrawn (10/92)

ISDN routing principles

Superseded by ITU-T E.172 (1992)

Individually through the Electronic Bookshop: 20 CHF

Connection types

I.340 (11/88) ISDN connection types

Individually through the Electronic Bookshop: 20 CHF

Performance objectives

I.350 (03/93) General aspects of quality of service and network performance in digital networks, including ISDNs

13pp E 3829 F 3828 S 3830 11 CHF

I.351/Y.801/Y.1501 (10/00) Relationships among ISDN, Internet protocol, and GII performance recommendations

24pp E 18937 F 18938 S 18939 17 CHF

I.352 (03/93) Network performance objectives for connection processing delays in an ISDN

19pp E 3877 F 3876 S 3878 15 CHF

I.353 (08/96) Reference events for defining ISDN and B-ISDN performance parameters

20pp E 10018 F 10019 S 10020 17 CHF

I.354 (03/93) Network performance objectives for packet-mode communication in an ISDN

9pp E 3637 F 3636 S 3638 11 CHF

I.355 (10/00) ISDN 64 kbit/s connection type availability performance

28pp E 19179 F 19180 S 19181 17 CHF

I.356 (03/00) B-ISDN ATM layer cell transfer performance

64pp E 19773 F 19774 S 19775 29 CHF

I.357 (11/00) B-ISDN semi-permanent connection availability

16pp E 19909 F 19910 S 19911 12 CHF

I.358 (06/98) Call processing performance for switched Virtual Channel Connections (VCCs) in a B-ISDN

36pp E 13920 F 13921 S 13922 22 CHF

I.359 (02/99) Accuracy and dependability of ISDN 64 kbit/s circuit-mode connection types

12pp E 15576 F 15577 S 15578 12 CHF

Protocol layer requirements

I.361 (02/99) B-ISDN ATM layer specification

40pp E 16113 F 16114 S 16115 22 CHF

I.362 (03/93) Withdrawn (06/97)
B-ISDN ATM adaptation layer (AAL) functional description

Deleted, since the service classes defined therein were no longer appropriate and were in conflict with F-Series Recommendations

3pp E 3658 F 3657 S 3659 8 CHF

I.363 B-ISDN ATM Adaptation Layer (AAL) specification

I.363.1 (08/96) Type 1 AAL

44pp E 11626 F 11627 S 11628 22 CHF

I.363.2 (11/00) B-ISDN ATM Adaptation Layer specification : Type 2 AAL

60pp E 20401 F 20402 S 20403 29 CHF

I.363.3 (08/96) Type 3/4 AAL

56pp E 11170 F 11171 S 11172 29 CHF

I.363.5 (08/96) Type 5 AAL

48pp E 11192 F 11193 S 11194 22 CHF

I.364 (02/99) Support of the broadband connectionless data bearer service by the B-ISDN

84pp E 15886 F 15887 S 15888 39 CHF

I.365 B-ISDN ATM adaptation layer sublayers

I.365.1 (11/93) Frame relaying service specific convergence sublayer (FR-SSCS)

8pp E 5189 F 5237 S 5272 11 CHF

I.365.2 (11/95) Service-specific coordination function to provide the connection-oriented network service

104pp E 7281 F 7282 S 7284 44 CHF

I.365.3 (11/95) Service-specific coordination function to provide the connection-oriented transport service

84pp E 7160 F 7161 S 7162 34 CHF

I.365.4 (08/96) Service-specific convergence sublayer for HDLC applications

12pp E 11015 F 11016 S 11017 12 CHF

I.366.1 (06/98) Segmentation and Reassembly Service Specific Convergence Sublayer for the AAL type 2

36pp E 13820 F 13821 S 13822 22 CHF

I.366.1 Corrigendum 1 (02/02)

To be published...

I.366.2 (11/00) AAL type 2 service specific convergence sublayer for narrow-band services

130pp E 20196 F 20197 S 20198 49 CHF

I.366.2 Corrigendum 1 (03/02)

General network requirements and functions

I.370 (10/91) Congestion management for the ISDN frame relaying bearer service

10pp E 2354 F 2332 S 2376 12 CHF

I.371 (03/00) Traffic control and congestion control in B-ISDN

121pp E 19872 F 19873 S 19874 49 CHF

I.371.1 (06/97) Withdrawn (10/00)

Traffic control and congestion control in B-ISDN: conformance definitions for ABT and ABR

Deleted, its content having been integrated in ITU-T I.371 (03/2000)

32pp E 11802 F 11803 S 11804 17 CHF

I.371.1 (11/00) Guaranteed frame rate ATM transfer capability

22pp E 20161 F 20162 S 20163 17 CHF

I.372 (03/93) Frame relaying bearer service network-to-network interface requirements

10pp E 3808 F 3807 S 3809 11 CHF

I.373 (03/93) Network capabilities to support universal personal telecommunication (UPT)

16pp E 3799 F 3798 S 3800 15 CHF

I.374 (03/93) Withdrawn (06/98)

Framework Recommendation on “network capabilities to support multimedia services”

Replaced by ITU-T I.375.1 and ITU-T I.375.2

7pp E 3820 F 3819 S 3821 11 CHF

I.375 Network capabilities to support multimedia services

I.375.1 (06/98) General aspects

16pp E 13488 F 13489 S 13490 17 CHF

I.375.2 (06/98) Example of multimedia retrieval service class – Video-on-demand service using an ATM based network

28pp E 13592 F 13593 S 13594 17 CHF

I.375.3 (03/00) Example of multimedia distribution service class – Switched digital broadcasting

12pp E 19442 F 19443 S 19444 12 CHF

I.376 (03/95) ISDN network capabilities for the support of the teleaction service

14pp E 5912 F 5911 S 5913 11 CHF

I.377 (10/00) Network requirements to support charging and accounting in B-ISDN
16pp E 18903 F 18904 S 18905 12 CHF

I.378 (12/02) Traffic control and congestion control at the ATM Adaptation Layer type 2
To be published...

I.381 (03/01) ATM Adaptation Layer (ALL) performance
32pp E 20625 F 20626 S 20627 17 CHF

ISDN user-network interfaces

I.410 (11/88) General aspects and principles relating to Recommendations on ISDN user-network interfaces
Individually through the Electronic Bookshop: 20 CHF

I.411 (03/93) ISDN user-network interfaces – Reference configurations
7pp E 3880 F 3879 S 3881 11 CHF

I.412 (11/88) ISDN user-network interfaces – Interface structures and access capabilities
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I.413 (03/93) B-ISDN user-network interface
9pp E 3908 F 3907 S 3909 11 CHF

I.414 (09/97) Overview of Recommendations on Layer 1 for ISDN and B-ISDN customer accesses
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Application of I-series Recommendations to ISDN user-network interfaces

I.420 (11/88) Basic user-network interface
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I.421 (11/88) Primary rate user-network interface
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Layer 1 Recommendations

I.430 (11/95) Basic user-network interface – Layer 1 specification
100pp E 6937 F 6938 S 6939 39 CHF

I.431 (03/93) Primary rate user-network interface – Layer 1 specification
39pp E 3950 F 3949 S 3951 20 CHF

I.431 Amendment 1 (06/97)
4pp E 11690 F 11691 S 11692 9 CHF

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 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 Q.921.
268pp E 13327 F 13328 S 13329 96 CHF

ISDN user-network interfaces

I.441 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 system No. 1 – Generic procedures for the control of ISDN supplementary services
This Recommendation is published under alias number Q.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

This Recommendation is published under alias number V.120

Aspects of ISDN affecting terminal requirements

I.470 (11/88) Relationship of terminal functions to ISDN

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I.480 (03/00) 1+1 protection switching for cell-based physical layer

16pp E 19692 F 19693 S 19694 12 CHF

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

12pp E 3911 F 3910 S 3912 11 CHF

I.511 (11/88) ISDN-to-ISDN layer 1 internetwork interface

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I.515 (03/93) Parameter exchange for ISDN interworking

15pp E 4017 F 4016 S 4018 15 CHF

I.520 (03/93) General arrangements for network interworking between ISDNs

12pp E 3932 F 3931 S 3933 11 CHF

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
Individually through the Electronic Bookshop: 20 CHF

I.610 (02/99) B-ISDN operation and maintenance principles and functions
84pp E 16387 F 16388 S 16389 39 CHF

I.610 Amendment 1 (03/00)
4pp E 19512 F 19513 S 19514 9 CHF

I.610 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 Amendment 1 (03/00)
4pp E 19457 F 19458 S 19459 9 CHF

I.630 Corrigendum 1 (03/00)

B-ISDN equipment aspects

ATM equipment

I.731 (10/00) Types and general characteristics of ATM equipment
36pp E 20012 F 20013 S 20014 22 CHF

I.732 (10/00) Functional characteristics of ATM equipment
254pp E 20090 F 20091 S 20092 96 CHF

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
44pp E 16470 F 16471 S 16472 22 CHF

Management of ATM equipment

I.751 (03/96) Asynchronous transfer mode management of the network element view
84pp E 7502 F 7503 S 7504 39 CHF

Multiplexing aspects

I.761 (03/00) Inverse multiplexing for ATM (IMA)
8pp E 19489 F 19490 S 19491 9 CHF

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 sound-programme 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

Individually through the Electronic Bookshop: 20 CHF

J.14 (11/88) Relative levels and impedances on an international sound-programme connection

Individually through the Electronic Bookshop: 20 CHF

J.15 (11/88) Lining-up and monitoring an international sound-programme connection
Individually through the Electronic Bookshop: 20 CHF

J.16 (11/88) Measurement of weighted noise in sound-programme circuits
Individually through the Electronic Bookshop: 20 CHF

J.17 (11/88) Pre-emphasis used on sound-programme circuits
Individually through the Electronic Bookshop: 20 CHF

J.18 (11/88) Crosstalk in sound-programme circuits set up on carrier systems
Individually through the Electronic Bookshop: 20 CHF

J.19 (11/88) A conventional test signal simulating sound-programme signals for measuring interference in other channels
Formerly ITU-R Rec. CMTT 571-2
Individually through the Electronic Bookshop: 20 CHF

Performance characteristics of analogue sound-programme 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 sound-programme 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
Individually through the Electronic Bookshop: 20 CHF

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
Individually through the Electronic Bookshop: 20 CHF
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 sound-programme 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
Individually through the Electronic Bookshop: 20 CHF

J.32 (10/84) Withdrawn (03/93)
Characteristics of equipment and lines used for setting up 10 kHz type sound-programme circuits
Deleted after its content became technically out of date
Individually through the Electronic Bookshop: 20 CHF

J.33 (11/88) Withdrawn (03/99)
Characteristics of equipment and lines used for setting up 6.4 kHz type sound-programme circuits
Deleted because no system or equipment have implemented it during the last two study periods
Individually through the Electronic Bookshop: 20 CHF

J.34 (11/88) Withdrawn (03/99)
Characteristics of equipment used for setting up 7 kHz type sound-programme circuits
Deleted because no system or equipment have implemented it during the last two study periods
Individually through the Electronic Bookshop: 20 CHF

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
Individually through the Electronic Bookshop: 20 CHF

J.42 (11/88) Characteristics of equipment for the coding of analogue medium quality sound-programme signals for transmission on 384-kbit/s channels
Individually through the Electronic Bookshop: 20 CHF

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

Deleted because no system or equipment have implemented it during the last two study periods

Individually through the Electronic Bookshop: 20 CHF

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

Individually through the Electronic Bookshop: 20 CHF

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 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

Individually through the Electronic Bookshop: 20 CHF

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

Individually through the Electronic Bookshop: 20 CHF

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

Individually through the Electronic Bookshop: 20 CHF

E 11240 F 11240 S 11240 9 CHF

J.67 (03/01) Test signals and measurement techniques for transmission circuits carrying MAC/packet signals

30pp E 20609 F 20610 S 20611 17 CHF

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

E 11241 F 11241 S 11241 9 CHF

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

Deleted because no system or equipment have implemented it during the last two study periods

Individually through the Electronic Bookshop: 20 CHF

J.74 (11/88) Withdrawn (03/99)

Methods for measuring the transmission characteristics of translating equipments

Deleted because no system or equipment have implemented it during the last two study periods

Individually through the Electronic Bookshop: 20 CHF

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

Individually through the Electronic Bookshop: 20 CHF

J.77 (11/88) Withdrawn (03/99)

Characteristics of the television signals transmitted over 18 MHz and 60-MHz systems

Deleted because no system or equipment have implemented it during the last two study periods

Individually through the Electronic Bookshop: 20 CHF

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

15pp E 5576 F 5575 S 5577 15 CHF

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

66pp E 5579 F 5578 S 5580 30 CHF

J.81 Amendment 1 (10/95) Appendix II to Annex A to Recommendation J.81 – Guidelines for implementation of a complete television codec

4pp E 6441 F 6442 S 6443 8 CHF

J.81 Amendment 2 (03/98) Appendix IV to Annex A – Results of 34 Mbit/s codec interworking tests (February 1996)

8pp E 13519 F 13520 S 13521 9 CHF

J.81 Corrigendum 1 (10/96)

J.82 (07/96) Transport of MPEG-2 constant bit rate television signals in B-ISDN

8pp E 7403 F 7404 S 7405 9 CHF

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 Corrigendum 1 (09/96)

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

Individually through the Electronic Bookshop: 20 CHF

E 11247 F 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

18pp E 20425 F 20426 S 20427 12 CHF

J.88 (09/99) Transmission of enhanced definition television signals over digital links

56pp E 18058 F 18059 S 18060 29 CHF

J.89 (09/99) Transport mechanism for component-coded digital television signals using MPEG-2 4:2:2 P@ML including all service elements for contribution and primary distribution

20pp	E 17697	F 17698	S 17699	17 CHF
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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

12pp	E 19695	F 19696	S 19697	12 CHF
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J.91 (08/94) Technical methods for ensuring privacy in long-distance international television transmission

17pp	E 5582	F 5581	S 5583	15 CHF
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J.92 (04/97) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE's

8pp	E 11173	F 11174	S 11175	9 CHF
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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
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J.94 (11/98) Service information for digital broadcasting in cable television systems

84pp	E 16336	F 16337	S 16339	96 CHF
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J.94 Amendment 2 (03/01) Additions to Annex C – Service information for digital multi-programme System C

14pp	E 20428	F 20429	S 20430	12 CHF
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J.94 Amendment 1 (10/00) Service information delivered out of band for digital cable television systems

128pp	E 20330	F 20331	S 20332	49 CHF
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J.95 (09/99) Copy protection of intellectual property for content delivered on cable television systems

60pp	E 18570	F 18571	S 18572	29 CHF
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J.96 (07/02) Technical method for ensuring privacy in long-distance international MPEG-2 television transmission conforming to Recommendation J.89

18pp	E 22313	F 22314	S 22315	12 CHF
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J.97 (07/02) Metadata on cable networks

9pp	E 22665	F 22666	S 22667	9 CHF
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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
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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
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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
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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
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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
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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
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J.112 Annex B (03/01) Data-over-cable service interface specifications: Radio frequency interface specification

488pp	E 22392	F 22393	S 22394	197 CHF
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J.112 Annex B Amendment 1 (02/02)

1pp	E 22386	F 22387	S 22388	9 CHF
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J.112 Annex C (02/02) Data-over-cable service interface specifications: Radio-frequency interface specification using QAM technique

Available as a prepublished version

To be published...

J.113 (03/98) Digital video broadcasting interaction channel through the PSTN/ISDN

8pp E 13497 F 13498 S 13499 9 CHF

J.114 (09/99) Interaction channel using digital enhanced cordless telecommunications

20pp E 18010 F 18011 S 18012 17 CHF

J.115 (09/99) Interaction channel using the global system for mobile communications

12pp E 17708 F 17709 S 17710 12 CHF

J.116 (05/00) Interaction channel for local multipoint distribution systems

240pp E 20333 F 20334 S 20335 96 CHF

J.117 (09/99) Home digital network interface specification

100pp E 17995 F 17996 S 17997 44 CHF

J.118 (05/00) Access systems for interactive services on SMATV/MATV networks

38pp E 19977 F 19978 S 19979 22 CHF

J.120 (05/00) Recommendation J.120 (05/00) – Distribution of sound and television programs over the IP network

24pp E 20002 F 20003 S 20004 67 CHF

J.121 (02/02) Quality control protocol for webcasting

26pp E 22172 F 22173 S 22174 17 CHF

J.122 (12/02) Second generation transmission systems for interactive cable television services – IP cable modems

To be published...

J.123 (07/02) Multiplexing format for webcasting on TCP/IP network

21pp E 22900 F 22901 S 22902 17 CHF

Transport of MPEG-2 signals on packetised networks

J.131 (03/98) Transport of MPEG-2 signals in PDH networks

28pp E 13668 F 13669 S 13670 17 CHF

J.132 (03/98) Transport of MPEG-2 signals in SDH networks

36pp E 13763 F 13764 S 13765 22 CHF

J.133 (07/02) Measurement of MPEG-2 transport streams in networks

28pp E 22742 F 22743 S 22744 17 CHF

Measurement of the quality of service

J.140 (03/98) Subjective picture quality assessment for digital cable television systems

12pp E 13571 F 13572 S 13573 12 CHF

J.141 (09/99) Performance indicators for data services delivered over digital cable television systems

8pp E 17660 F 17661 S 17662 9 CHF

J.142 (05/00) Methods for the measurement of parameters in the transmission of digital cable television signals

50pp E 20034 F 20035 S 20036 22 CHF

J.143 (05/00) User requirements for objective perceptual video quality measurements in digital cable television

12pp E 19724 F 19725 S 19726 12 CHF

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

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

14pp E 22729 F 22730 S 22731 12 CHF

J.147 (07/02) Objective picture quality measurement method by use of in-service test signals

18pp E 22779 F 22780 S 22781 12 CHF

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 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 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

32pp E 19964 F 19965 S 19966 17 CHF

IPCablecom

J.160 (02/02) Architectural framework for the delivery of time-critical services over cable television networks using cable modems

52pp E 21842 F 21843 S 21844 22 CHF

Digital television distribution through local subscriber networks

J.161 (03/01) Audio codec requirements for the provision of bidirectional audio service over cable television networks using cable modems

16pp E 20557 F 20558 S 20559 12 CHF

J.162 (03/01) Network call signalling protocol for the delivery of time critical services over cable television networks using cable modems

116pp E 21830 F 21831 S 21832 44 CHF

IPCablecom

J.162 Amendment 1 (02/02)

44pp E 22881 F 22882 S 22883 22 CHF

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

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

IPCablecom

J.165 (02/02) IPCablecom signalling transport protocol

60pp E 22461 F 22462 S 22463 29 CHF

Digital television distribution through local subscriber networks

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

42pp E 21336 F 21337 S 21338 22 CHF

J.168 (03/01) IPCablecom media terminal adapter (MTA) MIB requirements

26pp E 21291 F 21292 S 21293 17 CHF

J.169 (03/01) IPCablecom network call signalling (NCS) MIB requirements

24pp E 21216 F 21217 S 21218 17 CHF

IPCablecom

J.170 (02/02) IPCablecom security specification
To be published...

J.171 (02/02) IPCablecom Trunking Gateway Control Protocol (TGCP)

96pp E 22111 F 22112 S 22113 39 CHF

J.172 (02/02) IPCablecom management event mechanism

16pp E 22656 F 22657 S 22658 12 CHF

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

29pp E 22685 F 22686 S 22687 17 CHF

J.175 (07/02) Audio server protocol

58pp E 22929 F 22930 S 22931 29 CHF

J.176 (07/02) IPCablecom management event mechanism MIB

22pp E 22754 F 22755 S 22756 17 CHF

Digital television distribution through local subscriber networks

J.180 (05/00) User requirements for statistical multiplexing of several programmes on a transmission channel

8pp E 19860 F 19861 S 19862 9 CHF

J.181 (03/01) Digital program insertion cueing message for cable television systems
27pp E 20918 F 20919 S 20920 17 CHF

J.182 (03/01) Parameter sets for analogue interface specifications for the interconnection of set-top-boxes and presentation devices in the home
50pp E 20524 F 20525 S 20526 22 CHF

J.183 (03/01) Time division multiplexing of multiple MPEG-2 transport streams over cable television systems
16pp E 20560 F 20561 S 20562 12 CHF

J.184 (03/01) Digital broadband delivery system: Out-of-band transport
108pp E 21609 F 21610 S 21611 44 CHF

Miscellaneous

J.185 (02/02) Transmission equipment for transferring multi-channel television signals over optical access networks by FM conversion
20pp E 22757 F 22758 S 22759 12 CHF

J.186 (02/02) Transmission equipment for multi-channel television signals over optical access networks by sub-carrier multiplexing (SCM)
23pp E 22680 F 22681 S 22682 17 CHF

Miscellaneous

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
14pp E 22782 F 22783 S 22784 12 CHF

J.188 (07/02) A framework for an efficient parallel video transmission system including codecs with functions of failure detection and picture quality evaluation
18pp E 22849 F 22850 S 22851 12 CHF

J.189 (07/02) Seamless splicing for MPEG-2 bit streams
16pp E 22785 F 22786 S 22787 12 CHF

J.190 (07/02) Architecture of MediaHomeNet that supports cable based services
52pp E 22986 F 22987 S 22988 22 CHF

J.191 (07/02) IP Feature Package to enhance cable modems
To be published...

Digital television distribution through local subscriber networks

J.200 (03/01) Worldwide common core – Application environment for digital interactive television services
28pp E 20736 F 20737 S 20738 17 CHF

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

8pp E 15602 F 15603 S 15604 12 CHF

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

28pp E 15645 F 15646 S 15647 17 CHF

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

28pp E 15748 F 15749 S 15750 17 CHF

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: 20 CHF

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: 20 CHF

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: 20 CHF

K.4 (11/88) Withdrawn (10/96)

Disturbance to signalling

Deleted after its content became technically out of date

Individually through the Electronic Bookshop: 20 CHF

K.5 (11/88) Joint use of poles for electricity distribution and for telecommunications

Individually through the Electronic Bookshop: 20 CHF

K.6 (11/88) Precautions at crossings

Individually through the Electronic Bookshop: 20 CHF

K.7 (11/88) Protection against acoustic shock

Individually through the Electronic Bookshop: 20 CHF

K.8 (11/88) Separation in the soil between telecommunication cables and earthing system of power facilities

Individually through the Electronic Bookshop: 20 CHF

K.9 (11/88) Protection of telecommunication staff and plant against a large earth potential due to a neighbouring electric traction line

Individually through the Electronic Bookshop: 20 CHF

K.10 (10/96) Low frequency interference due to unbalance about earth of telecommunication equipment

16pp E 10694 F 10695 S 10696 12 CHF

K.11 (10/93) Principles of protection against overvoltages and overcurrents

11pp E 4695 F 4694 S 4696 11 CHF

K.12 (02/00) Characteristics of gas discharge tubes for the protection of telecommunications installations

20pp E 18564 F 18565 S 18566 17 CHF

K.13 (11/88) Induced voltages in cables with plastic-insulated conductors

Individually through the Electronic Bookshop: 20 CHF

K.14 (11/88) Provision of a metallic screen in plastic-sheathed cables

Individually through the Electronic Bookshop: 20 CHF

K.15 (11/88) Protection of remote-feeding systems and line repeaters against lightning and interference from neighbouring electricity lines

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 – Volume II: Calculating induced voltages and currents in practical cases" without giving any limit

Individually through the Electronic Bookshop: 20 CHF

K.17 (11/88) Tests on power-fed repeaters using solid-state devices in order to check the arrangements for protection from external interference

Individually through the Electronic Bookshop: 20 CHF

K.18 (11/88) Calculation of voltage induced into telecommunication lines from radio station broadcasts and methods of reducing interference

Individually through the Electronic Bookshop: 20 CHF

K.19 (11/88) Joint use of trenches and tunnels for telecommunication and power cables

Individually through the Electronic Bookshop: 20 CHF

K.20 (02/00) Resistibility of telecommunication equipment installed in a telecommunications centre to overvoltages and overcurrents

20pp E 18549 F 18550 S 18551 17 CHF

K.21 (10/00) Resistibility of telecommunication equipment installed in customer's premises to overvoltages and overcurrents

24pp E 19854 F 19855 S 19856 17 CHF

K.22 (05/95) Overvoltage resistibility of equipment connected to an ISDN T/S bus

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

Individually through the Electronic Bookshop: 20 CHF

K.24 (11/88) Method for measuring radio-frequency induced noise on telecommunications pairs

Individually through the Electronic Bookshop: 20 CHF

K.25 (02/00) Protection of optical fibre cables

24pp E 18294 F 18295 S 18296 17 CHF

K.26 (11/88) Protection of telecommunication lines against harmful effects from electric power and electrified railway lines

Individually through the Electronic Bookshop: 20 CHF

K.27 (05/96)	Bonding configurations and earthing inside a telecommunication building			
24pp	E 7329	F 7330	S 7331	17 CHF
K.28 (03/93)	Characteristics of semi-conductor arrester assemblies for the protection of telecommunications installations			
11pp	E 4590	F 4589	S 4591	11 CHF
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				
<i>The content of this Recommendation has been superseded by ITU-T K.43 (1998) and K.48 (2000)</i>				
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 (02/00)	Classification of electromagnetic environmental conditions for telecommunication equipment – Basic EMC Recommendation			
20pp	E 18303	F 18304	S 18305	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			
20pp	E 15508	F 15509	S 15510	17 CHF

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			
16pp	E 10697	F 10698	S 10699	12 CHF
K.40 (10/96)	Protection against LEMP in telecommunications centres			
16pp	E 10758	F 10759	S 10760	12 CHF
K.41 (05/98)	Resistibility of internal interfaces of telecommunication centres to surge overvoltages			
12pp	E 13574	F 13575	S 13576	12 CHF
K.42 (05/98)	Analytical method to calculate visibility statistics for non-geostationary satellite orbit satellites as seen from a point on the Earth's surface			
12pp	E 13577	F 13578	S 13579	12 CHF
K.43 (05/98)	Resistibility of telecommunication equipment installed in costumer's premises to overvoltages and overcurrents			
20pp	E 13693	F 13694	S 13695	17 CHF
K.43 Corrigendum 1 (02/00)				
K.44 (02/00)	Resistibility of telecommunication equipment to overvoltages and overcurrents			
72pp	E 18834	F 18835	S 18836	34 CHF
K.45 (02/00)	Resistibility of access network equipment to overvoltages and overcurrents			
20pp	E 18448	F 18449	S 18450	12 CHF
K.46 (12/00)	Protection of telecommunication lines using metallic symmetric conductors against lightning induced surges			
20pp	E 21495	F 21496	S 21497	17 CHF
K.47 (12/00)	Protection of telecommunication lines using metallic conductors against direct lightning discharges			
16pp	E 21498	F 21499	S 21500	12 CHF
K.48 (02/00)	EMC requirements for each telecommunication network equipment – Product family Recommendation			
24pp	E 18414	F 18415	S 18416	17 CHF
K.49 (02/00)	Test condition and performance criteria for voice terminal subject to disturbance from digital mobile phone			
16pp	E 18306	F 18307	S 18308	12 CHF
K.50 (02/00)	Safe limits of operating voltages and currents for telecommunication systems powered over the network			
16pp	E 18297	F 18298	S 18299	12 CHF

- K.51 (02/00)** Safety criteria for telecommunication equipment
8pp E 18300 F 18301 S 18302 9 CHF
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In spite of the fact that ITU-T M.2101.1 and M.2101 are similar, they are both in force. M.2101.1 will eventually be deleted after PDH items have been transferred from M.2101.1 to M.2101.

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M.3108.1 Corrigendum 1 (01/01)

M.3108.2 (02/00) TMN management services for dedicated and reconfigurable circuits network: Information model for connection management of preprovisioned service link connections to form a reconfigurable leased service
48pp E 19114 F 19115 S 19116 22 CHF

M.3108.3 (01/01) TMN management services for dedicated and reconfigurable circuits network: Information model for management of virtual private network service
20pp E 20488 F 20489 S 20490 12 CHF

M.3120 (10/01) CORBA generic network and network element level information model
24pp E 22073 F 22074 S 22075 67 CHF

M.3120 Amendment 1 (05/02)	Protection Switching			
34pp	E 22414	F 22415	S 22416	17 CHF
M.3180 (10/92)	Catalogue of TMN management information			
16pp	E 3561	F 3560	S 3562	15 CHF
M.3200 (04/97)	TMN management services and telecommunications managed areas: overview			
28pp	E 11704	F 11705	S 11706	17 CHF
M.3207.1 (05/96)	TMN management service: maintenance aspects of B-ISDN management			
12pp	E 7433	F 7434	S 7435	12 CHF
<i>M.3208 TMN management services for dedicated and reconfigurable circuits network</i>				
M.3208.1 (10/97)	Leased circuit services			
92pp	E 12556	F 12557	S 12558	39 CHF
M.3208.1 Corrigendum 1 (02/00)				
M.3208.2 (03/99)	Connection management of pre-provisioned service link connections to form a leased circuit service			
40pp	E 15958	F 15959	S 15960	22 CHF
M.3208.2 Corrigendum 1 (01/01)				
M.3208.3 (02/00)	Virtual private network			
36pp	E 19436	F 19437	S 19438	22 CHF
M.3210.1 (01/01)	TMN management services for IMT-2000 security management			
30pp	E 20392	F 20393	S 20394	17 CHF
M.3211.1 (05/96)	TMN management service: Fault and performance management of the ISDN access			
8pp	E 7234	F 7236	S 7237	9 CHF
M.3300 (06/98)	TMN F interface requirements			
28pp	E 13967	F 13968	S 13969	17 CHF
M.3320 (04/97)	Management requirements framework for the TMN X-Interface			
32pp	E 11811	F 11812	S 11813	17 CHF
M.3400 (02/00)	TMN Management Functions			
108pp	E 19730	F 19731	S 19732	44 CHF

Integrated services digital networks

M.3600 (10/92)	Principles for the management of ISDNs			
20pp	E 3540	F 3539	S 3541	15 CHF
M.3602 (10/92)	Application of maintenance principles to ISDN subscriber installations			
8pp	E 3537	F 3536	S 3538	8 CHF
M.3603 (10/92)	Application of maintenance principles to ISDN basic rate access			
8pp	E 3474	F 3473	S 3475	8 CHF
M.3604 (10/92)	Application of maintenance principles to ISDN primary rate access			
17pp	E 3525	F 3524	S 3526	15 CHF
M.3605 (10/92)	Application of maintenance principles to static multiplexed ISDN basic rate access			
5pp	E 3477	F 3476	S 3478	8 CHF
M.3610 (05/96)	Principles for applying the TMN concept to the management of B-ISDN			
16pp	E 7338	F 7339	S 7340	12 CHF
M.3611 (04/97)	Test management of the B-ISDN ATM layer using the TMN			
52pp	E 12040	F 12041	S 12042	29 CHF
M.3620 (10/92)	Principles for the use of ISDN test calls, systems and responders			
4pp	E 3414	F 3413	S 3415	8 CHF
M.3621 (07/95)	Integrated management of the ISDN customer access			
7pp	E 6263	F 6264	S 6265	11 CHF
M.3640 (10/92)	Management of the D-channel – Data link layer and network layer			
21pp	E 3619	F 3618	S 3620	15 CHF
M.3641 (10/94)	Management information model for the management of the data link and network layer of the ISDN D-channel			
30pp	E 6025	F 6024	S 6026	20 CHF
M.3650 (04/97)	Network performance measurements of ISDN calls			
84pp	E 11889	F 11890	S 11891	39 CHF
M.3660 (10/92)	ISDN interface management services			
5pp	E 3522	F 3521	S 3523	8 CHF

Common channel signalling systems

M.4010 (10/92) Inter-Administration agreements on common channel Signalling System No. 6
5pp E 3398 F 3397 S 3399 8 CHF

M.4030 (10/92) Transmission characteristics for setting up and lining up a transfer link for common channel Signalling System No. 6 (analogue version)
5pp E 3531 F 3530 S 3532 8 CHF

M.4100 (05/96) Maintenance of common channel Signalling System No. 7
12pp E 7238 F 7239 S 7240 12 CHF

M.4110 (05/96) Inter-Administration agreements on common channel Signalling System No. 7
8pp E 7241 F 7242 S 7243 9 CHF

SERIES N

Maintenance: international sound programme and television transmission circuits

International sound-programme transmission

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)
Individually through the Electronic Bookshop: 20 CHF

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 abandoned and the empty Recommendation was deleted

Individually through the Electronic Bookshop: 20 CHF

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

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 sound-programme 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: 20 CHF

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

Individually through the Electronic Bookshop: 20 CHF

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 O.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 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 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 20616 S 20616 22 CHF

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

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.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: 20 CHF

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 one CD-ROM containing the speech database for telephony applications.

Not available through Electronic Bookshop

To purchase, please contact Sales@itu.int

60pp E 14057 F 14058 S 14059 154 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 O.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

To be published...

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)

To be published...

P.59 (03/93) Artificial conversational speech
4pp E 4584 F 4583 S 4585 8 CHF

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: 20 CHF

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 Corrigendum 1 (10/00)

P.79 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.82 (11/88) Method for evaluation of service from
the standpoint of speech transmission quality
Individually through the Electronic Bookshop: 20 CHF

P.84 (03/93) Subjective listening test method for
evaluating digital circuit multiplication and
packetized voice systems
19pp E 4674 F 4673 S 4675 15 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 (05/00) Transmission characteristics for
telephone-band (300-3400 Hz) digital telephones
32pp E 19406 F 19407 S 19408 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.340 (05/00) Transmission characteristics of hands-free telephones
44pp E 19665 F 19666 S 19667 22 CHF

P.341 (02/98) Transmission characteristics for wideband (150-7000 Hz) digital hands-free telephony terminals
20pp E 13522 F 13523 S 13524 17 CHF

P.341 Corrigendum 1 (09/99)

P.342 (05/00) Transmission characteristics for telephone band (300-3400 Hz) digital loudspeaking and hands-free telephony terminals
20pp E 19552 F 19553 S 19554 17 CHF

P.350 (03/01) Handset dimensions – Formerly ITU-T P.35
12pp E 20566 F 20567 S 20568 9 CHF

P.360 (12/98) Efficiency of devices for preventing the occurrence of excessive acoustic pressure by telephone receivers
Former Rec. P.36, renumbered P.360
12pp E 14550 F 14551 S 14552 12 CHF

P.370 (08/96) Coupling Hearing Aids to Telephone sets
Former Rec. P.37, renumbered P.370
20pp E 9944 F 9945 S 9946 17 CHF

Objective measuring apparatus

P.501 (05/00) Test signals for use in telephony
This Recommendation includes an electronic attachment containing test signals for telephony applications.
37pp E 19888 F 19889 S 19890 72 CHF

P.501 Erratum 1 (09/01) Erratum to Recommendation ITU-T P.501 (05/00)

P.502 (05/00) Objective test methods for speech communication systems using complex test signals
2pp E 20052 F 20053 S 20054 29 CHF

P.502 Erratum 1 (07/01) Erratum to Recommendation ITU-T P.502 (05/00)

Objective measuring apparatus

P.561 (07/02) In-service non-intrusive measurement device – Voice service measurements
To be published...

Objective measuring apparatus

P.562 (05/00) Analysis and interpretation of INMD voice-services measurements
56pp E 19314 F 19315 S 19316 29 CHF

P.581 (05/00) Use of head and torso simulator (HATS) for hands-free terminal testing
12pp E 19492 F 19493 S 19494 12 CHF

Methods for objective and subjective assessment of quality

P.800 (08/96) Methods for subjective determination of transmission quality
Former Rec. P.80, renumbered P.800
36pp E 9713 F 9714 S 9715 22 CHF

P.810 (02/96) Modulated noise reference unit (MNRU)
Corresponding ANSI-C code is available in the MNRU module of the ITU-T G.191 Software Tools Library
12pp E 7139 F 7140 S 7141 12 CHF

P.830 (02/96) Subjective performance assessment of telephone-band and wideband digital codecs
24pp E 7163 F 7164 S 7165 17 CHF

P.831 (12/98) Subjective performance evaluation of network echo cancellers
32pp E 15473 F 15474 S 15475 17 CHF

Methods for objective and subjective assessment of quality

P.832 (05/00) Subjective performance evaluation of hands-free terminals
28pp E 19427 F 19428 S 19429 17 CHF

P.833 (02/01) Methodology for derivation of equipment impairment factors from subjective listening-only tests
24pp E 21045 F 21046 S 21047 17 CHF

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

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

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 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.

Note: Not available through Electronic Bookshop. To purchase, please contact Sales@itu.int

10pp E 14061 F 14062 S 14063 287 CHF

SERIES Q

Switching and signalling

Suppl. 39 (02/03) Technical Report TRQ.2700:

Requirements for signalling in access networks that support BICC

193pp E 22760 F 22761 S 22762 73 CHF

Signalling in the international manual service

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 semi-automatic 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

Individually through the Electronic Bookshop: 20 CHF

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: 20 CHF

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.11bis (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

Q.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: 20 CHF

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: 20 CHF

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

Individually through the Electronic Bookshop: 20 CHF

General Recommendations relative to signalling and switching systems (national or international)

Q.20 (11/88) Comparative advantages of “in-band” and “out-band” systems

Individually through the Electronic Bookshop: 20 CHF

Q.21 (11/88) Systems recommended for out-band signalling

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Q.22 (11/88) Frequencies to be used for in-band signalling

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Q.23 (11/88) Technical features of push-button telephone sets

Individually through the Electronic Bookshop: 20 CHF

Q.24 (11/88) Multifrequency push-button signal reception

Individually through the Electronic Bookshop: 20 CHF

Q.25 (11/88) Splitting arrangements and signal recognition times in “in-band” signalling systems

Individually through the Electronic Bookshop: 20 CHF

Q.26 (11/88) Direct access to the international network from the national network

Individually through the Electronic Bookshop: 20 CHF

Q.27 (11/88) Transmission of the answer signal

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Q.28 (11/88) Determination of the moment of the called subscriber's answer in the automatic service

Individually through the Electronic Bookshop: 20 CHF

Q.29 (11/88) Causes of noise and ways of reducing noise in telephone exchanges

Individually through the Electronic Bookshop: 20 CHF

Q.30 (11/88) Improving the reliability of contacts in speech circuits

Individually through the Electronic Bookshop: 20 CHF

Q.31 (11/88) Noise in a national 4-wire automatic exchange

Individually through the Electronic Bookshop: 20 CHF

Q.32 (11/88) Reduction of the risk of instability by switching means

Individually through the Electronic Bookshop: 20 CHF

Q.33 (11/88) Protection against the effects of faulty transmission on groups of circuits

Individually through the Electronic Bookshop: 20 CHF

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

Individually through the Electronic Bookshop: 20 CHF

General characteristics for international telephone connections and circuits

Q.40 (11/88) Withdrawn (03/93)

The transmission plan

Deleted Q.40 was an extract of ITU-T G.101. ITU-T G.101 remains valid

Individually through the Electronic Bookshop: 20 CHF

Q.41 (11/88) Withdrawn (03/93)

Mean one-way propagation time

Deleted Q.41 was an extract of ITU-T G.114. ITU-T G.114 remains valid

Individually through the Electronic Bookshop: 20 CHF

Q.42 (11/88) Withdrawn (03/93)

Stability and echo (echo suppressors)

Q.42 was an alias name of ITU-T G.131. Only this alias name was suppressed. ITU-T G.131 remains valid

Individually through the Electronic Bookshop: 20 CHF

Q.43 (11/88) Withdrawn (03/93)

Transmission losses, relative levels

Deleted Q.43 was an extract of ITU-T G.101. ITU-T G.101 remains valid

Individually through the Electronic Bookshop: 20 CHF

Q.44 (11/88) Attenuation distortion

Individually through the Electronic Bookshop: 20 CHF

Q.45 (10/84) Transmission characteristics of an analogue international exchange

Electronic Bookshop only

20 CHF

Q.45bis (11/88) Transmission characteristics of an analogue international exchange

Individually through the Electronic Bookshop: 20 CHF

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 O.22. Only this alias name was suppressed. ITU-T O.22 remains valid

Individually through the Electronic Bookshop: 20 CHF

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

To be published...

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

32pp E 21501 F 21502 S 21503 17 CHF

Functions and information flows for services in the ISDN

Methodology

Q.65 (06/00) The unified functional methodology for the characterization of services and network capabilities

60pp E 19764 F 19765 S 19766 29 CHF

Basic services

Q.68 (03/93) Overview of methodology for developing management services
3pp E 4479 F 4478 S 4480 8 CHF

Q.71 (03/93) ISDN circuit mode switched bearer services
143pp E 4826 F 4825 S 4827 47 CHF

Q.72 (03/93) Stage 2 description for packet mode services
36pp E 4522 F 4521 S 4523 20 CHF

Q.76 (02/95) Service procedures for Universal Personal Telecommunication – Functional modelling and information flows
75pp E 6093 F 6092 S 6094 30 CHF

Supplementary services

Q.80 (11/88) Introduction to stage 2 service descriptions for supplementary services
Individually through the Electronic Bookshop: 20 CHF

Q.81 Stage 2 description for number identification supplementary services

Q.81.1 (11/88) Direct dialling-in
Individually through the Electronic Bookshop: 20 CHF

Q.81.2 (02/92) Multiple subscriber number
Published with ITU-T Q.81.8.
7pp E 2617 F 2648 S 2679 15 CHF

Q.81.3 (09/91) Calling line identification presentation (CLIP) and calling line identification restriction (CLIR)
Published with ITU-T Q.81.5.
22pp E 2353 F 2331 S 2375 16 CHF

Q.81.5 (09/91) Connected line identification, presentation and restriction (COLP) and (COLR)
Published with ITU-T Q.81.3.
23pp E 2353 F 2331 S 2375 16 CHF

Q.81.7 (06/97) Malicious call identification (MCID)
This subject was only recognised and is for further study
28pp E 12299 F 12300 S 12301 17 CHF

Q.81.8 (02/92) Sub-addressing (SUB)
Published with ITU-T Q.81.2.
8pp E 2617 F 2648 S 2679 15 CHF

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
Published with ITU-T Q.82.3.
51pp E 4913 F 4912 S 4914 24 CHF

Q.82.3 (03/93) Call deflection
Published with ITU-T Q.82.2.
34pp E 4913 F 4912 S 4914 24 CHF

Q.82.4 (11/88) Line hunting
Individually through the Electronic Bookshop: 20 CHF

Q.82.7 (07/96) Explicit call transfer
36pp E 9657 F 9658 S 9659 22 CHF

Q.83 Stage 2 description for call completion supplementary services

Q.83.1 (09/91) Call waiting (CW)
Published with ITU-T Q.83.4.
13pp E 2352 F 2330 S 2374 13 CHF

Q.83.2 (02/92) Call hold
19pp E 2618 F 2649 S 2680 15 CHF

Q.83.3 (11/88) Stage 2 description for call completion supplementary services : Completion of call to busy subscriber
Empty Recommendation. This service has only been identified and requires further study.
20 CHF

Q.83.4 (09/91) Terminal portability
Published with ITU-T Q.83.1.
13pp E 2352 F 2330 S 2374 13 CHF

Q.84 Stage 2 description for multiparty supplementary services

Q.84.1 (03/93) Conference calling (CONF)
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Q.84.2 (10/95) Three-party service
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Q.85 Stage 2 description for community of interest supplementary services

Q.85.1 (02/92) Closed user group
Published with ITU-T Q.85.3.
24pp E 2713 F 2712 S 2714 33 CHF

Q.85.3 (02/92) Multi-level precedence and preemption (MLPP)
Published with ITU-T Q.85.1.
24pp E 2713 F 2712 S 2714 33 CHF

Q.85.6 (02/95) Global Virtual Network Service (GVNS)
31pp E 6019 F 6018 S 6020 20 CHF

Q.85.6 Annex A (07/96) Service procedures and information flows based on Intelligent Network CS-1 capabilities
60pp E 10343 F 10344 S 10345 29 CHF

Q.86 Stage 2 description for charging supplementary services

Q.86.1 (11/88) Credit card call

Empty Recommendation. This service has only been identified and requires further study.

Q.86.2 (10/95) Advice of charge (AOC)

40pp E 7009 F 7010 S 7011 22 CHF

Q.86.3 (03/93) Reverse charging (REV)

46pp E 5050 F 5049 S 5051 20 CHF

Q.86.4 (06/97) International Freephone Service (IFS)

20pp E 12236 F 12237 S 12238 17 CHF

Q.86.7 (10/95) International Telecommunication Charge Card (ITCC)

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Q.87 Stage 2 description for additional information transfer supplementary services

Q.87.1 (03/93) User-to-user signalling (UUS)

56pp E 5203 F 5240 S 5276 24 CHF

Q.87.2 (11/88) User signalling bearer services

Empty Recommendation. This service has only been identified and requires further study.

Clauses applicable to ITU-T standard systems

General clauses

Q.101 (11/88) Facilities provided in international semi-automatic working

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Q.102 (11/88) Facilities provided in international automatic working

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Q.103 (11/88) Numbering used

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Q.104 (11/88) Language digit or discriminating digit

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Q.105 (11/88) National (significant) number

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Q.106 (11/88) The sending-finished signal

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Q.107bis (03/93) Analysis of forward address information for routing

5pp E 4985 F 4984 S 4986 8 CHF

Q.107 (11/88) Standard sending sequence of forward address information

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Q.108 (11/88) One-way or both-way operation of international circuits

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Q.109 (11/88) Transmission of the answer signal in international exchanges

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Transmission clauses for signalling

Q.110 (11/88) General aspects of the utilization of standardized CCITT signalling systems on PCM links

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Q.112 (11/88) Signal levels and signal receiver sensitivity

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Q.113 (11/88) Connection of signal receivers in the circuit

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Q.114 (11/88) Typical transmission requirements for signal senders and receivers

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Control of echo suppressors

Q.115.1 (12/02) Clauses applicable to ITU-T standard systems logic and protocols for the control of signal processing network elements and functions: Logic for the control of echo control devices

Formerly Rec. Q.115

To be published...

Abnormal conditions

Q.116 (11/88) Indication given to the outgoing operator or calling subscriber in case of an abnormal condition

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Q.117 (11/88) Alarms for technical staff and arrangements in case of faults

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Q.118 (09/97) Abnormal conditions – Special release arrangements

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Q.118bis (11/88) Indication of congestion conditions at transit exchanges

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Specification of Signalling Systems No. 4 and No. 5

Specifications of Signalling System No. 4

Q.120-139 (11/88) Specifications of Signalling System No. 4

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Q.120 (11/88)	Definition and function of signals	
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Q.121 (11/88)	Signal code	
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Q.126 (11/88)	Analysis and transfer of digital information	
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Specifications of Signalling System No. 5

Q.140 (11/88)	Definition and function of signals	
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Q.140-Q.180 (11/88)	Specifications of Signalling System No. 5	
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Q.142 (11/88)	Double seizing with both-way operation	
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Q.152 (11/88)	End-of-Pulsing conditions – Register arrangements concerning ST (end-of-pulsing) signal	
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Q.155 (11/88)	Analysis of digital information for routing	
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Interworking of Signalling Systems No. 4 and No. 5

Q.180 (11/88) Interworking of signalling systems No. 4 and No. 5
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Specifications of Signalling System No. 6

Functional description of the signalling system

Q.251 (11/88) General
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Q.251-Q.300 (11/88) Specifications of Signalling System No. 6
148pp E 22564 F 22565 S 22566 55 CHF

Q.252 (11/88) Signal transfer time definitions
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Q.253 (11/88) Association between signalling and speech networks
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Definition and function of signals

Q.254 (11/88) Telephone signals
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Q.255 (11/88) Signalling-system-control signals
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Q.256 (11/88) Management signals
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Signal unit formats and codes

Q.257 (11/88) General
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Q.258 (11/88) Telephone signals
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Q.259 (11/88) Signalling-system-control signals
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Q.260 (11/88) Management signals
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Signalling procedures

Q.261 (11/88) Normal call set-up
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Q.264 (11/88) Potential for automatic repeat attempt and re-routing
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Q.267 (11/88) Unreasonable and superfluous messages
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Q.268 (11/88) Release of international connections and associated equipment
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Continuity check of the speech path

Q.271 (11/88) General
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Signalling link

Q.272 (11/88) Requirements for the signalling data link
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Q.273 (11/88) Data transmission rate
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Q.274 (11/88) Transmission methods – Modem and interface requirements
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Signal traffic characteristics

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Q.286 (11/88) Signalling channel loading and queueing delays
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Q.287 (11/88) Signal transfer time requirements
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Security arrangements

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Testing and maintenance

Q.295 (11/88) Overall tests of Signalling System No. 6
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Q.296 (11/88) Monitoring and maintenance of the common signalling channel
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Network management

Q.297 (11/88) Network management
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Interworking between ITU-T Signalling System No. 6 and national common channel signalling systems

Q.300 (11/88) Interworking between CCITT Signalling System No. 6 and national common channel signalling systems
Individually through the Electronic Bookshop: 20 CHF

Specifications of Signalling System R1

Definition and function of signals

Q.310 (11/88) Definition and function of signals
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Q.310-Q.332 (11/88) Specifications of Signalling System R1
10pp E 21525 F 21526 S 21527 9 CHF

Line signalling

Q.311 (11/88) 2600 Hz line signalling
Individually through the Electronic Bookshop: 20 CHF

Q.312 (11/88) 2600 Hz line signal sender (transmitter)
Individually through the Electronic Bookshop: 20 CHF

Q.313 (11/88) 2600 Hz line signal receiving equipment
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Q.314 (11/88) PCM line signalling
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Q.315 (11/88) PCM line signal sender (transmitter)
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Q.316 (11/88) PCM line signal receiver
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Q.317 (11/88) Further specification clauses relative to line signalling
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Q.318 (11/88) Double seizing with both-way operation
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Q.319 (11/88) Speed of switching in international exchanges
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Register signalling

Q.320 (11/88) Signal code for register signalling
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Q.321 (11/88) End-of-pulsing conditions – Register arrangements concerning ST signal
Individually through the Electronic Bookshop: 20 CHF

Q.322 (11/88) Multifrequency signal sender
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Q.323 (11/88) Multifrequency signal receiving equipment
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Q.324 (11/88) Analysis of address information for routing
Individually through the Electronic Bookshop: 20 CHF

Q.325 (11/88) Release of registers
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Q.326 (11/88) Switching to the speech position
Individually through the Electronic Bookshop: 20 CHF

Testing arrangements

Q.327 (11/88) General arrangements
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Q.328 (11/88) Routine testing of equipment (local maintenance)
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Q.329 (11/88) Manual testing
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Q.330 (11/88) Automatic transmission and signalling testing
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Q.331 (11/88) Test equipment for checking equipment and signals
Individually through the Electronic Bookshop: 20 CHF

Interworking of Signalling System R1 with other standardized systems

Q.332 (11/88) Interworking
Specifications on interworking of System R1 with other signalling systems are not yet available. Typical information is found in Rec. Q.180
Individually through the Electronic Bookshop: 20 CHF

Specifications of Signalling System R2

Definition and function of signals

Q.400 (11/88) Forward line signals
Individually through the Electronic Bookshop: 20 CHF

Definition and function of signals

Q.400-Q.490 (11/88) Specifications of Signalling System R2
118pp E 21644 F 21645 S 21646 49 CHF

Line signalling, analogue version

Q.411 (11/88) Line signalling code
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Q.412 (11/88) Clauses for exchange line signalling equipment
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Q.414 (11/88) Signal sender
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Q.415 (11/88) Signal receiver
Individually through the Electronic Bookshop: 20 CHF

Q.416 (11/88) Interruption control
Individually through the Electronic Bookshop: 20 CHF

Line signalling, digital version

Q.421 (11/88) Digital line signalling code
Individually through the Electronic Bookshop: 20 CHF

Q.422 (11/88) Clauses for exchange line signalling equipment

Individually through the Electronic Bookshop: 20 CHF

Q.424 (11/88) Protection against the effects of faulty transmission

Individually through the Electronic Bookshop: 20 CHF

Q.430 (11/88) Conversion between analogue and digital versions of System R2 line signalling

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Interregister signalling

Q.440 (11/88) General
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Q.441 (11/88) Signalling code
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Q.458 (11/88) Reliability of interregister signalling
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Q.463 (11/88) Signalling between the outgoing international R2 register and an incoming R2 register in a national exchange in the destination country

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Q.464 (11/88) Signalling between the outgoing international R2 register and the last incoming R2 register

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Q.465 (11/88) Particular cases

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Q.466 (11/88) Supervision and release of the call

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Q.468 (11/88) Routing and numbering for international working

Empty Recommendation referring to Q.107 and Q.107 bis

Q.470 (11/88) At an incoming R2 register situated in a transit exchange

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Q.471 (11/88) At the last incoming R2 register situated in the exchange to which the called subscriber is connected

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Q.472 (11/88) At the last incoming R2 register situated in a transit exchange

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Q.474 (11/88) Use of group B signals

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Q.475 (11/88) Normal release of outgoing and incoming R2 registers

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Q.476 (11/88) Abnormal release of outgoing and incoming R2 registers

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- Q.553 (11/01)** Transmission characteristics at 4-wire analogue interfaces of digital exchanges
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- Q.554 (11/96)** Transmission characteristics at digital interfaces of digital exchanges
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Interworking of Signalling Systems

General considerations

- Q.601 (03/93)** Interworking of signalling systems – General
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- Q.601 Q.695 Annex A (03/93)** Lists and meanings of FITEs, BITEs and SPITEs – Representation of information contents of signals of the signalling systems
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- Q.602 (03/93)** Interworking of signalling systems – Introduction
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Q.690 (03/93) Logic procedures for interworking of Signalling System No. 7 (ISUP) to No. 5

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Q.691 (03/93) Logic procedures for interworking of Signalling System No. 7 (ISUP) to No. 6

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Q.692 (03/93) Logic procedures for interworking of Signalling System No. 7 (ISUP) to No. 7 (TUP)

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Q.694 (03/93) Logic procedures for interworking of signalling system No. 7 (ISUP) to R1

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Q.695 (03/93) Logic procedures for interworking of Signalling System No. 7 (ISUP) to R2

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Q.696 (06/97) Interworking between the Signalling System No. 7 ISDN User Part (ISUP) and Signalling Systems No. 5, R2 and Signalling System No. 7 TUP

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Interworking of Signalling Systems No. 7 and No. 6

Q.698 (03/93) Interworking of Signalling System No. 7 ISUP, TUP and Signalling System No. 6 using arrow diagrams

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Interworking between Digital Subscriber Signalling System No. 1 and Signalling System No. 7

Q.699 (09/97) Interworking between ISDN access and non-ISDN access over ISDN User Part of Signalling System No. 7

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Q.699 Addendum 1 (12/99) DSS1-SS7 interworking for call completion on no reply

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Q.699.1 (05/98) Interworking between ISDN access and non-ISDN access over ISDN user part of Signalling System No. 7: Support of VPN applications with PSS1 information flows

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Specifications of Signalling System No. 7

General

Q.700 (03/93) Introduction to CCITT Signalling System No. 7

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Message transfer part (MTP)

Q.701 (03/93) Functional description of the message transfer part (MTP) of Signalling System No. 7

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Q.704 (07/96) Signalling network functions and messages
Covering note, 17.09.99: Erratum (english only)
 216pp E 10627 F 10628 S 10629 96 CHF

Q.705 (03/93) Signalling network structure
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Signalling connection control part (SCCP)

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Q.713 (03/01) Signalling connection control part formats and codes
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Q.714 (05/01) Signalling connection control part procedures
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Q.715 (04/02) Signalling connection control part user guide
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Q.716 (03/93) Signalling System No. 7 – Signalling connection control part (SCCP) performance
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Telephone user part (TUP)

Q.721 (11/88) Functional description of the Signalling System No. 7 Telephone User Part (TUP)
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Q.723 Amendment 1 (03/93) Amendment 1 to ITU-T Q.723 (1988)

Q.723 (11/88) Telephone user part formats and codes
A Corrigendum was indicated in 03/1993.
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Q.724 Amendment 1 (03/93) Amendment 1 to ITU-T Q.724 (1988)

Q.724 (11/88) Telephone user part signalling procedures
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Q.725 (03/93) Signalling performance in the telephone application
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ISDN supplementary services

Q.730 (12/99) ISDN user part supplementary services
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Q.731 Stage 3 description for number identification supplementary services using Signalling System No. 7

Q.731.1 (07/96) Direct-dialling-In (DDI)
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Q.731.3 (03/93) Calling line identification presentation (CLIP)
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Q.731.4 (03/93) Calling line identification restriction (CLIR)
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Q.731.5 (03/93) Connected line identification presentation (COLP)
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Q.731.6 (03/93) Connected line identification restriction (COLR)
 6pp E 4410 F 4409 S 4411 20 CHF

Q.731.7 (06/97) Malicious call identification (MCID)
 12pp E 12132 F 12133 S 12134 12 CHF

Q.731.8 (02/92) Sub-addressing (SUB)
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Q.732 Stage 3 description for call offering supplementary services using Signalling System No. 7

Q.732.2-5 (12/99) Call diversion services

Call diversion Recommendation groups four services the stage 3 descriptions of which are similar:

Q.732.2 – Call Forwarding Busy (CFB)

Q.732.3 – Call Forwarding No Reply (CFNR)

Q.732.4 – Call Forwarding Unconditional (CFU)

Q.732.5 – Call Deflection (CD).

40pp E 17877 F 17878 S 17879 22 CHF

Q.732.2-5 Amendment 1 (07/01) Stage 3 description for call offering supplementary services using Signalling System No. 7: Call diversion services

8pp E 21564 F 21565 S 21566 9 CHF

Q.732.7 (07/96) Explicit Call Transfer

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Q.733 Stage 3 description for call completion supplementary services using Signalling System No. 7

Q.733.1 (02/92) Call waiting (CW)

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Q.733.2 (03/93) Call hold (HOLD)

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Q.733.3 (06/97) Completion of calls to busy subscriber (CCBS)

40pp E 12355 F 12356 S 12357 22 CHF

Q.733.3 Amendment 1 (07/01) Stage 3 description for call completion supplementary services using Signalling System No. 7: Completion of calls to busy subscriber (CCBS)

9pp E 21770 F 21771 S 21772 9 CHF

Q.733.4 (03/93) Terminal portability (TP)

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7pp E 4446 F 4445 S 4447 11 CHF

Q.733.5 (12/99) Completion of calls on no reply

40pp E 18027 F 18028 S 18029 22 CHF

Q.734 Stage 3 description for multiparty supplementary services using Signalling System No. 7

Q.734.1 (03/93) Conference calling

Published with ITU-T Q.734.2.

Covering note, June 1999: Information note

22pp E 4449 F 4448 S 4450 15 CHF

Q.734.2 (07/96) Three-party service

20pp E 10639 F 10640 S 10641 17 CHF

Q.735 Stage 3 description for community of interest supplementary services using Signalling System No. 7

Q.735.1 (03/93) Closed user group (CUG)

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Q.735.3 (03/93) Multi-level precedence and preemption

44pp E 4536 F 4535 S 4537 29 CHF

Q.735.6 (07/96) Global Virtual Network Service (GVNS)

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Q.736 Stage 3 description for charging supplementary services using Signalling System No. 7

Q.736.1 (10/95) International Telecommunication Charge Card (ITCC)

20pp E 6760 F 6761 S 6762 17 CHF

Q.736.3 (10/95) Reverse charging (REV)

36pp E 6691 F 6692 S 6693 20 CHF

Q.737 Stage 3 description for additional information transfer supplementary services using Signalling System No. 7

Q.737.1 (06/97) User-to-user signalling (UUS)

40pp E 12349 F 12350 S 12351 22 CHF

Data user part

Q.741 (11/88) Signalling System No. 7 – Data user part

This Recommendation is published under alias number X.61

Signalling System No. 7 management

Q.750 (06/97) Overview of Signalling System No. 7 management

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Q.751.1 (10/95) Network element management information model for the Message Transfer Part (MTP)

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Q.751.2 (06/97) Network element management information model for the Signalling Connection Control Part

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Q.751.3 (09/97) Network element information model for MTP accounting

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Q.751.4 (05/98) Network element information model for SCCP accounting and accounting verification
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Q.752 (06/97) Monitoring and measurements for Signalling System No. 7 networks
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Q.753 (06/97) Signalling System No. 7 management functions MRVT, SRVT and CVT and definition of the OMASE-user
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Q.754 (06/97) Signalling System No. 7 management Application Service Element (ASE) definitions
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Q.755 (03/93) Signalling System No. 7 protocol tests
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Q.755.1 (05/98) MTP Protocol Tester
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Q.755.2 (09/97) Transaction capabilities test responder
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Q.756 (06/97) Guidebook to Operations, Maintenance and Administration Part (OMAP)
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ISDN user part

Q.761 (12/99) Signalling System No. 7 – ISDN User Part functional description
20pp E 17663 F 17664 S 17665 17 CHF

Q.761 Amendment 1 (07/01) Specifications of Signalling System No. 7 – ISDN user part functional description
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Q.761 Amendment 2 (12/02) Support for the international emergency preference scheme
To be published...

Q.762 (12/99) Signalling System No. 7 – ISDN User Part general functions of messages and signals
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Q.762 Addendum 1 (06/00) Addendum 1
4pp E 19721 F 19722 S 19723 9 CHF

Q.762 Amendment 1 (12/02) Support for the international emergency preference scheme
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Q.763 Amendment 1 (03/01) Analytical method to calculate short-term visibility and interference statistics for non-geostationary satellite orbit satellites as seen from a point on the Earth's surface
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Q.763 Amendment 2 (12/02) Support for the international emergency preference scheme
To be published...

Q.763 Corrigendum 1 (07/01)

Q.764 (12/99) Signalling System No. 7 – ISDN User Part signalling procedures
108pp E 19701 F 19702 S 19703 44 CHF

Q.764 Amendment 1 (07/01) Amendment 1
16pp E 21721 F 21722 S 21723 12 CHF

Q.764 Amendment 2 (12/02) Support for the international emergency preference scheme
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Q.765bis (12/99) Signalling system No. 7 – Application Transport Mechanism: Test Suite Structure and Test Purposes (TSS & TP)
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Q.765 (06/00) Signalling system No. 7 – Application transport mechanism
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Q.765.1 (05/98) Signalling System No. 7 – Application transport mechanism: Support of VPN applications with PSS1 information flows
56pp E 14421 F 14422 S 14423 29 CHF

Q.765.1bis (12/99) Abstract test suite for the APM support of VPN applications
This Recommendation includes an electronic attachment containing the ATS for ISUP'97 for APM support of VPN in machine processable form and in pdf form
28pp E 19580 F 19581 S 19582 67 CHF

Q.765.1bis Amendment 1 (12/00) Amendment : Abstract test suite for the APM support of VPN applications
16pp E 21507 12 CHF

Q.765.4 (06/00) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE's
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Q.765.5 (06/00) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE's
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Q.765.5 Amendment 1 (07/01) Bearer Independent Call Control Capability Set 2
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Q.766 (03/93) Performance objectives in the integrated services digital network application
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Q.767 (02/91) Application of the ISDN user part of CCITT signalling system No. 7 for international ISDN interconnections
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Transaction capabilities application part

Q.771 (06/97) Functional description of transaction capabilities
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Q.772 (06/97) Transaction capabilities information element definitions
12pp E 12321 F 12322 S 12323 12 CHF

Q.773 (06/97) Transaction capabilities formats and encoding
36pp E 12406 F 12407 S 12408 22 CHF

Q.774 (06/97) Transaction capabilities procedures
64pp E 12388 F 12389 S 12390 29 CHF

Q.775 (06/97) Guidelines for using transaction capabilities
64pp E 11938 F 11939 S 11940 29 CHF

Test specification

Q.780 (10/95) Signalling System No. 7 test specification – General description
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Q.781 (04/02) MTP level 2 test specification
110pp E 22514 F 22515 S 22516 44 CHF

Q.782 (04/02) MTP level 3 test specification
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Q.783 (11/88) TUP test specification
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Q.784 ISUP basic call test specification

Q.784 Annex A (03/93) TTCN version of Recommendation Q.784
135pp E 5165 F 5223 S 5258 47 CHF

Q.784.1 (07/96) Validation and compatibility for ISUP'92 and Q.767 protocols
144pp E 10592 F 10593 S 10594 55 CHF

Q.784.1 Corrigendum 1 (12/99)

Q.784.2 (06/97) Abstract test suite for ISUP'92 basic call control procedures

This Recommendation includes one diskette containing Annex D ISUP'92 ATS for basic call in graphical and in machine processable form.

96pp E 13023 F 13029 S 13030 79 CHF

Q.784.3 (12/99) ISUP '97 basic call control procedures – Test suite structure and test purposes (TSS & TP)

This Recommendation includes an electronic attachment containing the ATS for ISUP'97 basic call control procedures in machine processable form and in pdf form

92pp E 19534 F 19535 S 19536 89 CHF

Q.784.3 Amendment 1 (12/00) Amendment 1
28pp E 21515 17 CHF

Q.785 (09/91) ISUP protocol test specification for supplementary services
49pp E 2346 F 2324 S 2368 21 CHF

Q.785.2 (03/99) ISUP'97 supplementary services –
Test suite structure and test purposes (TSS & TP)

*This Recommendation includes one CD-ROM containing
the ISUP'97 ATS for supplementary services in machine
processable form and in graphical form.*

332pp E 17285 F 17286 S 17287 249 CHF

Q.785.2 Amendment 1 (12/00) Amendment 1: New
Appendix I – Additional test configuration for
ISUP'97 supplementary services

E 21588 F 21589 S 21590 62 CHF

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
user-network-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: 20 CHF

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

Q.812 (06/97) Upper layer protocol profiles for the
Q3 and X interfaces

24pp E 11961 F 11962 S 11963 17 CHF

Q.812 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 Amendment 2 (02/00) Protocol profile for
electronic communications interactive agent

To be published...

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 29 CHF

Q.816 Amendment 1 (08/01) OMG services profile

16pp E 21570 F 21571 S 21572 12 CHF

Q.816 Amendment 2 (05/02) User guide for local
name resolution

9pp E 22455 F 22456 S 22457 9 CHF

Q.816 Corrigendum 1 (08/01)

Q3 interface

Q3 interface

Q.816 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

Q.821 (02/00) Stage 2 and Stage 3 description for the
Q3 interface – Alarm Surveillance

84pp E 20084 F 20085 S 20086 34 CHF

Q.821.1 (09/01) CORBA-based TMN alarm
surveillance service

100pp E 21736 F 21737 S 21738 39 CHF

Q.822 (04/94) Stage 1, stage 2 and stage 3 description for the Q3 interface – Performance management
47pp E 5308 F 5295 S 5318 24 CHF

Q.822.1 (10/01) CORBA-based TMN performance management service
52pp E 22224 F 22225 S 22226 22 CHF

Q.823 (07/96) Stage 2 and Stage 3 functional specifications for traffic management
112pp E 10522 F 10523 S 10524 44 CHF

Q.823.1 (10/97) Management Conformance Statement Proformas
292pp E 12525 F 12526 S 12527 96 CHF

Q.824 Stages 2 and 3 description for the Q3 interface – Customer administration

Q.824.0 (10/95) Common information
52pp E 6763 F 6764 S 6765 29 CHF

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16pp E 6754 F 6755 S 6756 12 CHF

Q.824.4 (10/95) Integrated Services Digital Network (ISDN) teleservices
12pp E 6515 F 6516 S 6517 11 CHF

Q.824.5 (10/97) Configuration management of V5 interface environments and associated customer profiles
112pp E 12562 F 12563 S 12564 44 CHF

Q.824.5 Corrigendum 1 (02/00)

Q.824.6 (06/98) Broadband switch management
124pp E 14311 F 14312 S 14313 49 CHF

Q.824.7 (02/00) Enhanced Broadband Switch
32pp E 19875 F 19876 S 19877 17 CHF

Q.825 (06/98) Specification of TMN applications at the Q3 interface: Call detail recording
88pp E 14214 F 14215 S 14216 39 CHF

Q.826 (02/00) Stage 2 and Stage 3 Functional Specification of Call Routing Information Management on Operation System/Network Element (OS/NE) Interface
144pp E 19915 F 19916 S 19917 55 CHF

Q.831 (10/97) Fault and performance management of V5 interface environments and associated customer profiles
52pp E 12478 F 12479 S 12480 29 CHF

Q.831 Corrigendum 1 (03/01)

Q.831.1 (02/00) Access Management for V5
56pp E 19801 F 19802 S 19803 29 CHF

Q.832.1 (06/98) VB5.1 Management
52pp E 14146 F 14147 S 14148 29 CHF

Q.832.1 Corrigendum 1 (03/01)

Q.832.2 (03/99) VB5.2 Management
40pp E 15898 F 15899 S 15900 22 CHF

Q.832.3 (01/01) Broadband access coordination
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52pp E 21404 F 21405 S 21406 22 CHF

Q.834.1 (04/01) ATM-PON requirements and managed entities for the network element view
144pp E 21656 F 21657 S 21658 55 CHF

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.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 Corrigendum 1 (03/01)

Corrigendum 1 to Recommendation Q.835

Q.836.1 (02/00) SSF management information model
64pp E 19162 F 19166 S 19168 29 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 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 Amendment 1 (06/00)
10pp E 19680 F 19681 S 19682 9 CHF

Q.921bis (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 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 Amendment 1 (12/02) Extensions for the support of digital multiplexing equipment
To be published...

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 Amendment 1 (06/00)
20pp E 19590 F 19591 S 19592 17 CHF

Q.933bis (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
To be published...

Digital subscriber Signalling System No. 1

Q.939 (03/93) Typical DSS 1 service indicator codings for ISDN telecommunications services
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Stage 3 description for supplementary services using DSS1

Q.950 (06/00) Supplementary services protocols, structure and general principles
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Q.951 Stage 3 description for number identification supplementary services using DSS 1

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Q.951 parts 1, 2 and 8 published together
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Q.951.2 (02/92) Multiple subscriber number (MSN)
Q.951 parts 1, 2 and 8 published together
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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
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Q.951.5 (03/93) Connected line identification presentation
Q.951 parts 3-6 published together
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Q.951.6 (03/93) Connected line identification restriction
Q.951 parts 3-6 published together
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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)
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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)
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Q.1000 (11/88) Structure of the Q.1000-Series Recommendations for public land mobile networks
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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)

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Interworking with Standard-A INMARSAT system

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Interworking with Standard-B INMARSAT system

Q.1111 (03/93) Interfaces between the INMARSAT Standard B system and the international public switched telephone network/ISDN
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Q.1112 (03/93) Procedures for interworking between INMARSAT Standard-B system and the international public switched telephone network/ISDN
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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
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Q.1152 (03/93) Procedures for interworking between INMARSAT aeronautical mobile satellite system and the international public switched telephone network/ISDN
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Intelligent Network

Q.1200 (09/97) General series Intelligent Network Recommendation structure
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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

Q.1205 (03/93) Intelligent network physical plane architecture
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30pp E 3920 F 3919 S 3921 15 CHF

Q.1213 (10/95) Global functional plane for intelligent network CS-1
44pp E 6986 F 6987 S 6988 20 CHF

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 310 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

Intelligent Network

Q.1220 (09/97) Q.1220-series Intelligent Network Capability Set 2 Recommendation structure
24pp E 15548 F 15549 S 15550 12 CHF

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
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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) Intelligent Network user's guide for capability Set 2
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
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
65pp E 21488 F 21489 S 21490 79 CHF

Q.1290 (05/98) Glossary of terms used in the definition of intelligent networks
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Q.1301 (10/95) Telecommunication applications for switches and computers (TASC) – TASC Architecture
28pp E 6958 F 6959 S 6960 17 CHF

Q.1302 (10/95) Telecommunication applications for switches and computers (TASC) – TASC functional services
96pp E 6800 F 6803 S 6804 39 CHF

Q.1303 (10/95) Telecommunication applications for switches and computers (TASC) – TASC Management: Architecture, methodology and requirements
20pp E 6851 F 6852 S 6853 17 CHF

Q.1400 (03/93) Architecture framework for the development of signalling and OA&M protocols using OSI concepts
49pp E 6132 F 6131 S 6133 8 CHF

Q.1400 Addendum 1 (02/95) Architecture framework for the development of signalling and OAM protocols using OSI concepts
5pp E 4578 F 4577 S 4579 20 CHF

Q.1521 (06/00) Requirements on underlying networks and signalling protocols to support UPT
40pp E 19605 F 19606 S 19607 22 CHF

Q.1531 (06/00) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE's
28pp E 19967 F 19968 S 19969 17 CHF

Q.1541 (05/98) UPT stage 2 for Service Set 1 on IN CS1 – Procedures for universal personal telecommunication: Functional modelling and information flows
64pp E 14430 F 14431 S 14432 29 CHF

Q.1542 (06/00) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE's
95pp E 20067 F 20068 S 20069 39 CHF

Q.1551 (06/97) Application of Intelligent Network Application Protocols (INAP) CS1 for UPT Service Set 1
152pp E 12317 F 12318 S 12319 61 CHF

Q.1600 (09/97) Signalling system No. 7 – Interaction between ISUP and INAP
56pp E 12756 F 12757 S 12758 29 CHF

Q.1600bis (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.1600bis Amendment 1 (12/00) Amendment 1
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Q.1601 (12/99) Signalling system No. 7 – Interaction between N-ISDN and INAP CS2
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Signalling requirements and protocols for IMT-2000

Q.1701 (03/99) Framework for IMT-2000 networks
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Q.1702 (06/02) Long-term vision of network aspects for systems beyond IMT-2000
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Q.1711 (03/99) Network functional model for IMT-2000
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Q.1721 (06/00) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE's
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Q.1731 (06/00) Radio-technology independent requirements for IMT-2000 layer 2 radio interface
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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 ANSI-41 evolved Core Network with cdma2000 Access Network
To be published...

Q.1742.1 (12/02) IMT-2000 References to ANSI-41 evolved Core Network with cdma2000 Access Network
To be published...

Q.1751 (06/00) Internetwork signalling requirements for IMT-2000 capability set 1
44pp E 18777 F 18778 S 18779 22 CHF

Q.1901 (06/00) Bearer independent call control protocol
84pp E 19940 F 19941 S 19942 39 CHF

Q.1901 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
Available as a prepublished version
32pp E 21561 F 21562 S 21563 17 CHF

Q.1902.1 Amendment 1 (12/02) Support for the international emergency preference scheme
To be published...

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 Amendment 1 (12/02) Support for the international emergency preference scheme
To be published...

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 Amendment 1 (12/02) Support for the international emergency preference scheme
To be published...

Q.1902.3 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 Amendment 1 (12/02) Support for the international emergency preference scheme
To be published...

Q.1902.4 Corrigendum 1 (04/02)

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.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

To be published...

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

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Q.1970 (07/01) BICC IP Bearer control protocol

16pp E 21546 F 21547 S 21548 12 CHF

Q.1990 (07/01) BICC Bearer Control Tunnelling Protocol

12pp E 21678 F 21679 S 21680 12 CHF

Broadband ISDN

General aspects

Q.2010 (02/95) Broadband integrated services digital network overview – Signalling capability set 1, release 1

8pp E 5924 F 5923 S 5925 11 CHF

Signalling ATM adaptation layer (SAAL)

Q.2100 (07/94) B-ISDN signalling ATM adaptation layer (SAAL) – Overview description

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Q.2110 (07/94) B-ISDN ATM adaptation layer – Service specific connection oriented protocol (SSCOP)

95pp E 5674 F 5673 S 5675 39 CHF

Q.2111 (12/99) Service specific connection oriented protocol in a multi-link and connectionless environment (SSCOPMCE)

120pp E 20058 F 20059 S 20060 49 CHF

Q.2111 Amendment 1 (07/01) Amendment 1 – B-ISDN ATM adaptation layer – Service specific connection oriented protocol in a multilink and connectionless environment (SSCOPMCE)

48pp E 21898 F 21899 S 21900 22 CHF

Q.2111 Amendment 2 (04/02) API for SSCOPMCE over Ethernet

26pp E 22401 F 22402 S 22403 17 CHF

Q.2119 (07/96) B-ISDN ATM adaptation layer – Convergence function for SSCOP above the frame relay core service

16pp E 10452 F 10453 S 10454 12 CHF

Q.2120 (02/95) B-ISDN meta-signalling protocol

56pp E 6044 F 6043 S 6045 24 CHF

Q.2130 (07/94) B-ISDN signalling ATM adaptation layer – Service specific coordination function for support of signalling at the user-network interface (SSCF at UNI)

54pp E 5677 F 5676 S 5678 25 CHF

Q.2140 (02/95) B-ISDN ATM adaptation layer – Service specific coordination function for signalling at the network node interface (SSCF AT NNI)

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Q.2144 (10/95) B-ISDN signalling ATM adaptation layer – Layer management for the SAAL at the network node interface

32pp E 7096 F 7097 S 7098 17 CHF

Q.2150.0 (05/01) Generic signalling transport service

14pp E 20804 F 20805 S 20806 12 CHF

Q.2150.1 (05/01) Signalling Transport Converter on MTP3 and MTP3b

36pp E 20678 F 20679 S 20680 22 CHF

Q.2150.2 (05/01) Signalling transport converter on SSCOP and SSCOPMCE

32pp E 20794 F 20795 S 20796 22 CHF

Q.2150.3 (12/02) Signalling transport converter on SCTP

To be published...

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)

To be published...

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) SDL definition of the AAL Type 2 signalling protocol

To be published...

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 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

Q.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

Q.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

40pp E 18774 F 18775 S 18776 22 CHF

B-ISDN application protocols for access signalling

Q.2761 Amendment 1 (12/02) Support for the international emergency preference scheme

To be published...

B-ISDN application protocols for the network signalling

Q.2762 (12/99) General functions of messages and signals of the B-ISDN user part (B-ISUP) of Signalling System No. 7

36pp E 18720 F 18721 S 18722 22 CHF

B-ISDN application protocols for access signalling

Q.2762 Amendment 1 (12/02) Support for the international emergency preference scheme

To be published...

B-ISDN application protocols for the network signalling

Q.2763 (12/99) Signalling System No. 7 B-ISDN User Part (B-ISUP) – Formats and codes

92pp E 19668 F 19669 S 19670 39 CHF

B-ISDN application protocols for access signalling

Q.2763 Amendment 1 (12/02) Support for the international emergency preference scheme

To be published...

B-ISDN application protocols for the network signalling

Q.2764 (12/99) Signalling System No. 7 B-ISDN User Part (B-ISUP) – Basic call procedures

200pp E 19636 F 19637 S 19638 73 CHF

B-ISDN application protocols for access signalling

Q.2764 Amendment 1 (12/02) Support for the international emergency preference scheme

To be published...

B-ISDN application protocols for the network signalling

Q.2765 (12/99) Signalling System No. 7 B-ISDN User Part (B-ISUP) – Application transport mechanism (APM)

16pp E 19053 F 19054 S 19055 12 CHF

Q.2766.1 (05/98) Switched virtual path capability

36pp E 14176 F 14177 S 14178 22 CHF

Q.2766.1 Amendment 1 (06/00)

12pp E 19779 F 19780 S 19781 12 CHF

Q.2767.1 (06/00) Soft PVC capability

24pp E 19549 F 19550 S 19551 17 CHF

Q.2769.1 (06/00) Support of number portability information across B-ISUP

16pp E 19822 F 19823 S 19824 12 CHF

B-ISDN application protocols for access signalling

Q.2931 (02/95) Digital Subscriber Signalling System No. 2 – User-Network Interface (UNI) layer 3 specification for basic call/connection control

Modified by ITU-T Q.2971 (10/1995).

248pp E 6312 F 6313 S 6314 80 CHF

Q.2931C (12/00) Broadband integrated services digital network (B-ISDN) – Digital subscriber signalling system No. 2 (DSS 2) – User-network interface (UNI) layer 3 specification for basic call/connection control: Test Suite Structure and Test Purposes (TSS & TP) for the user

12pp E 20360 9 CHF

Q.2931B (12/00) Broadband integrated services digital network (B-ISDN) – Digital subscriber signalling system No. 2 (DSS 2) – User-network interface (UNI) layer 3 specification for basic call/connection control: Protocol implementation conformance statement (PICS) proforma

34pp E 20419 22 CHF

Q.2931D (12/00) Broadband integrated services digital network (B-ISDN) – Digital subscriber signalling system No. 2 (DSS 2) – User-network interface (UNI) layer 3 specification for basic call/connection control: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma for the user

12pp E 20467 9 CHF

Q.2931E (12/00) Broadband integrated services digital network (B-ISDN) – Digital subscriber signalling system No. 2 (DSS 2) – User-network interface (UNI) layer 3 specification for basic call/connection control: Test Suite Structure and Test Purposes (TSS & TP) for the Network

8pp E 20470 9 CHF

Q.2931F (12/00) Broadband integrated services digital network (B-ISDN) – Digital subscriber signalling system No. 2 (DSS 2) – User-network interface (UNI) layer 3 specification for basic call/connection control – Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma for the network

12pp E 20422 F 20423 S 20424 12 CHF

Q.2931 Amendment 1 (06/97)

8pp E 12025 F 12026 S 12027 9 CHF

Q.2931 Amendment 2 (03/99)

20pp E 16616 F 16617 S 16618 17 CHF

Q.2931 Amendment 2 Corrigendum 1 (06/00)

Q.2931 Amendment 3 (03/99)

8pp E 16604 F 16605 S 16606 9 CHF

Q.2931 Amendment 4 (12/99)

80pp E 19409 F 19410 S 19411 34 CHF

Q.2932 Digital Subscriber Signalling System No. 2 – Generic functional protocol

Q.2932.1 (07/96) Core functions

100pp E 10153 F 10154 S 10155 44 CHF

Q.2933 (07/96) Digital Subscriber Signalling System No. 2 – Signalling specification for Frame Relay service

16pp E 10458 F 10459 S 10460 12 CHF

Q.2934 (05/98) Digital Subscriber Signalling System No. 2 – Switched virtual path capability

20pp E 14191 F 14192 S 14193 17 CHF

Q.2939.1 (09/97) Digital Subscriber Signalling System No. 2 – Application of DSS2 service-related information elements by equipment supporting B-ISDN services

12pp E 12671 F 12672 S 12673 12 CHF

Q.2941.1 (09/97) Digital Subscriber Signalling System No. 2 – Generic identifier transport

12pp E 12734 F 12735 S 12736 12 CHF

Q.2941.2 (12/99) Digital Subscriber Signalling System No. 2 – Generic identifier transport extensions

16pp E 18909 F 18910 S 18911 12 CHF

Q.2941.3 (06/00) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE's

8pp E 19451 F 19452 S 19453 9 CHF

Q.2951 Stage 3 description for number identification supplementary services using B-ISDN Digital Subscriber Signalling System No. 2 (DSS2) – Basic Call

Q.2951.1-8 (02/95) Stage 3 description for number identification supplementary services using B-ISDN Digital Subscriber Signalling System No. 2 (DSS2) – Basic Call

E 6111 25 CHF

Q.2951 Corrigendum 1 (05/98)

Q.2951.9 (12/99) Support of ATM end system addressing format by Number identification supplementary services

16pp E 18894 F 18895 S 18896 12 CHF

Q.2955 Stage 3 description for community of interest supplementary services using B-ISDN Digital Subscriber Signalling System No. 2 (DSS2)

Q.2955.1 (06/97) Closed User Group (CUG)

24pp E 12239 F 12240 S 12241 17 CHF

Q.2957 Stage 3 description for additional information transfer supplementary services using B-ISDN digital subscriber Signalling System No.2 (DSS 2) – Basic call

Q.2957.1 (02/95) User-to-user signalling (UUS)

Modified by ITU-T Q.2971 (10/1995).

10pp E 6010 F 6009 S 6011 11 CHF

Q.2957.1 Amendment 1 (12/99)

8pp E 18652 F 18653 S 18654 9 CHF

Q.2959 (07/96) Digital subscriber signalling system
No. 2 – Call priority
16pp E 10495 F 10496 S 10497 12 CHF

*Q.2961 Digital Subscriber Signalling System
No. 2 – Additional traffic parameters*

Q.2961B (12/00) Digital subscriber signalling system
No. 2 (DSS 2) – Additional traffic parameters:
Protocol implementation conformance statement
(PICS) proforma
34pp E 20364 17 CHF

Q.2961C (12/00) Digital subscriber signalling
system No. 2 (DSS 2) – Additional traffic
parameters: Test Suite Structure and Test Purposes
(TSS & TP) for the user
12pp E 20368 9 CHF

Q.2961D (12/00) Digital subscriber signalling
system No. 2 (DSS 2) – Additional traffic
parameters: Abstract Test Suite (ATS) and partial
Protocol Implementation eXtra Information for
Testing (PIXIT) proforma for the user
12pp E 20371 9 CHF

Q.2961E (12/00) Digital subscriber signalling system
No. 2 (DSS 2) – Additional traffic parameters: Test
Suite Structure and Test Purposes (TSS & TP) for
the network
12pp E 20374 9 CHF

Q.2961F (12/00) Digital subscriber signalling system
No. 2 (DSS 2) – Additional traffic parameters:
Abstract Test Suite (ATS) and partial Protocol
Implementation eXtra Information for Testing
(PIXIT) proforma for the Network
12pp E 20377 9 CHF

Q.2961.1 (10/95) Additional signalling capabilities to
support traffic parameters for the tagging option and
the sustainable cell rate parameter set
16pp E 6983 F 6984 S 6985 11 CHF

Q.2961.2 (06/97) Managed objects for diagnostic
information of public switched telephone network
connected V-series modem DCE's
16pp E 12302 F 12303 S 12304 12 CHF

Q.2961.2 Corrigendum 1 (03/99)

Q.2961.3 (09/97) Signalling capabilities to support
traffic parameters for the available bit rate (ABR)
ATM transfer capability
20pp E 12806 F 12807 S 12808 17 CHF

Q.2961.4 (09/97) Signalling capabilities to support
traffic parameters for the ATM Block Transfer
(ABT) ATM transfer capability
16pp E 12809 F 12810 S 12811 12 CHF

Q.2961.5 (03/99) Additional traffic parameters for
cell delay variation tolerance indication
20pp E 16607 F 16608 S 16609 17 CHF

Q.2961.6 (05/98) Additional signalling procedures
for the support of the SBR2 and SBR3 ATM transfer
capabilities
12pp E 14169 F 14170 S 14171 12 CHF

Q.2962 (05/98) Digital Subscriber Signalling System
No. 2 – Connection characteristics negotiation during
call/connection establishment phase
16pp E 13721 F 13722 S 13723 12 CHF

Q.2962F (12/00) Digital subscriber signalling system
No. 2 – Connection characteristics negotiation during
call/connection establishment phase: Abstract Test
Suite (ATS) and partial Protocol Implementation
eXtra Information for Testing (PIXIT) proforma for
the network
12pp E 20389 9 CHF

Q.2962B (12/00) Digital subscriber signalling system
No. 2 – Connection characteristics negotiation during
call/connection establishment phase: Protocol
Implementation Conformance Statement (PICS)
proforma
12pp E 20380 9 CHF

Q.2962D (12/00) Digital subscriber signalling
system No. 2 – Connection characteristics
negotiation during call/connection establishment
phase: Abstract Test Suite (ATS) and partial Protocol
Implementation eXtra Information for Testing
(PIXIT) proforma for the user
12pp E 20386 9 CHF

Q.2962E (12/00) Digital subscriber signalling system
No. 2 – Connection characteristics negotiation during
call/connection establishment phase: Test Suite
Structure and Test Purposes (TSS & TP) for the
network
12pp E 20464 9 CHF

Q.2962C (12/00) Digital subscriber signalling
system No. 2 – Connection characteristics
negotiation during call/connection establishment
phase: Test Suite Structure and Test Purposes (TSS
& TP) for the user
12pp E 20383 9 CHF

*Q.2963 Digital Subscriber Signalling System
No. 2 – Connection modification*

Q.2963.1 (12/99) Peak cell rate modification by the connection owner

36pp E 18883 F 18884 S 18885 22 CHF

Q.2963.1B (12/00) Digital subscriber signalling system No. 2 – Connection modification : Peak cell rate modification by the connection owner: Protocol Implementation Conformance Statement (PICS) proforma

ITU-T Q.2963.1 B was previously numbered as Q.2963.1 bis during the approval process

12pp E 20345 9 CHF

Q.2963.1C (12/00) Digital subscriber signalling system No. 2 – Connection modification : Peak cell rate modification by the connection owner: Test Suite Structure and Test Purposes (TSS & TP) for the user

ITU-T Q.2963.1 C was previously numbered as Q.2963.1 ter during the approval process

12pp E 20348 9 CHF

Q.2963.1D (12/00) Digital subscriber signalling system No. 2 – Connection modification : Peak cell rate modification by the connection owner: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma for the user

ITU-T Q.2963.1 D was previously numbered as Q.2963.1 quater during the approval process

12pp E 20351 9 CHF

Q.2963.1E (12/00) Digital subscriber signalling system No. 2 – Connection modification : Peak cell rate modification by the connection owner: Test Suite Structure and Test Purposes (TSS & TP) for the network

ITU-T Q.2963.1 E was previously numbered as Q.2963.1 quinques during the approval process

12pp E 20354 9 CHF

Q.2963.1F (12/00) Digital subscriber signalling system No. 2 – Connection modification : Peak cell rate modification by the connection owner: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma for the network

ITU-T Q.2963.1 F was previously numbered as Q.2963.1 sexies during the approval process

12pp E 20357 9 CHF

Q.2963.2 (09/97) Modification procedures for sustainable cell rate parameters

12pp E 12565 F 12566 S 12567 12 CHF

Q.2963.3 (05/98) ATM traffic descriptor modification with negotiation by the connection owner

16pp E 14149 F 14150 S 14151 12 CHF

*Q.2964 Digital Subscriber Signalling System
No. 2*

Q.2964.1 (07/96) Basic Look-Ahead

20pp E 10654 F 10655 S 10656 17 CHF

Q.2965.1 (03/99) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE's

12pp E 16610 F 16611 S 16612 12 CHF

Q.2965.1 Amendment 1 (06/00)

8pp E 19707 F 19708 S 19709 9 CHF

Q.2965.1B (12/00) Digital subscriber signalling system No. 2 – Support of Quality of Service classes: Protocol Implementation Conformance Statement (PICS) proforma

ITU-T Q.2965 B was previously numbered as Q.2965.1 bis during the approval process

22pp E 20527 F 20528 S 20529 17 CHF

Q.2965.2 (12/99) Digital Subscriber Signalling System No. 2 – Signalling of individual Quality of Service parameters

20pp E 18880 F 18881 S 18882 17 CHF

Q.2965.2B (12/00) Digital subscriber signalling system No. 2 – Signalling of individual Quality of Service parameters: Protocol Implementation Conformance Statement (PICS) proforma

ITU-T Q.2965 B was previously numbered as Q.2965.2 bis during the approval process

26pp E 20446 F 20447 S 20448 17 CHF

Q.2971 (10/95) Digital Subscriber Signalling System No. 2 (DSS2) – User-network interface layer 3 specification for point-to-multipoint call/connection control

Modifies ITU-T Q.2931, Q.2951 and Q.2957.

172pp E 6944 F 6945 S 6946 65 CHF

Q.2971D (12/99) Digital subscriber signalling system No. 2 – User-network interface layer 3 specification for point-to-multipoint call/connection control: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma for the user

ITU-T Q.2971 D was previously numbered as Q.2971 quater during the approval process

16pp E 18637 F 18638 S 18639 12 CHF

Q.2971E (12/99) Digital subscriber signalling system No. 2 – User-network interface layer 3 specification for point-to-multipoint call/connection control: Test Suite Structure and Test Purposes (TSS & TP) for the network

ITU-T Q.2971 E was previously numbered as Q.2971 quinques during the approval process

12pp E 18640 F 18641 S 18642 12 CHF

Q.2971C (12/99) Digital Subscriber signalling system No. 2 – User-network interface layer 3 specification for point-to-multipoint call/connection control: Test Suite Structure and Test Purposes (TSS & TP) for the user

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8pp E 18655 F 18656 S 18657 9 CHF

Q.2971F (12/99) Digital Subscriber Signalling System No. 2 – User-network interface layer 3 specification for point-to-multipoint call/connection control: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma for the network

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Q.2991 (12/99) Abstract test suite for the network integration testing for B-ISDN and B-ISDN/N-ISDN

To be published...

Q.2991.1 (12/99) Abstract test suite for the network integration testing for B-ISDN and B-ISDN/N-ISDN : TSS & TP

This Recommendation includes an electronic attachment containing Test Purpose list for network integration testing

16pp E 19661 F 19662 S 19663 62 CHF

Q.2991.2 (12/99) ICS & IXIT and ATS

This Recommendation includes an electronic attachment containing the ATS in machine processable form and in pdf form for network integration testing

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narrow-band services via broadband transport
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Suppl. 40 (02/03) Technical Report: Reference document on API/object interface between network control and application layer

To be published...

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 2pp E 4644 F 4643 S 4645 8 CHF
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 3pp E 4713 F 4712 S 4714 8 CHF
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- Suppl. 1 (11/88)** Minimal specifications for the bilingual (arabic/latin) teleprinter

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- T.1 (11/88)** Standardization of phototelegraph apparatus
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- 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
Individually through the Electronic Bookshop: 20 CHF
- 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
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T.4 (04/99) Standardization of Group 3 facsimile terminals for document transmission
64pp E 17332 F 17333 S 17334 29 CHF

T.4 Amendment 1 (02/00)
12pp E 18567 F 18568 S 18569 12 CHF

T.4 Amendment 2 (11/00) Amendment 2
8pp E 21552 F 21553 S 21554 9 CHF

T.5 (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
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T.10 (11/88) Document facsimile transmissions on leased telephone-type circuits
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T.10bis (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
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T.12 (11/88) Withdrawn (10/96)
Range of phototelegraph transmissions on a telephone-type circuit
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T.15 (11/88) Withdrawn (10/96)
Phototelegraph transmission over combined radio and metallic circuits
Deleted after its content became technically out of date
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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: 20 CHF

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: 20 CHF

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 Amendment 1 (02/00)
To be published...

T.30 (04/99) Procedures for document facsimile transmission in the general switched telephone network
288pp E 17761 F 17762 S 17763 96 CHF

T.30 Amendment 1 (02/00) Amendment 1 (02/00) to Recommendation T.30
40pp E 20876 F 20877 S 20878 22 CHF

T.30 Amendment 2 (11/00) Amendment 2
16pp E 21787 F 21788 S 21789 12 CHF

T.30 Amendment 3 (03/01) Procedures for document facsimile transmission in the general switched telephone network
4pp E 19564 F 19565 S 19566 9 CHF

T.30 Amendment 4 (07/01) Procedure for document facsimile transmission in the general switched telephone network
8pp E 20894 F 20895 S 20896 9 CHF

T.30 Corrigendum 1 (07/01)*Available as a prepublished version***T.31 (08/95)** Asynchronous facsimile DCE control – Service Class 1

23pp E 6324 F 6325 S 6326 15 CHF

T.31 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 Amendment 1 (07/96)

8pp E 7436 F 7437 S 7438 9 CHF

T.33 (07/96) Facsimile routing utilizing the Subaddress

16pp E 7462 F 7463 S 7464 12 CHF

T.35 (02/00) Procedure for the allocation of ITU-T defined codes for non-standard facilities

12pp E 18405 F 18406 S 18407 12 CHF

T.36 (07/97) Security capabilities for use with Group 3 facsimile terminals

40pp E 11638 F 11639 S 11640 22 CHF

T.36 Amendment 1 (04/99)

8pp E 16147 F 16148 S 16149 9 CHF

T.37 (06/98) Procedures for the transfer of facsimile data via store-and-forward on the Internet

12pp E 13917 F 13918 S 13919 12 CHF

T.37 Amendment 1 (09/99) Full Mode

60pp E 17744 F 17745 S 17746 29 CHF

T.37 Amendment 2 (03/01)

8pp E 19555 F 19556 S 19557 9 CHF

T.37 Amendment 3 (11/02)

7pp E 23082 F 23083 S 23084 9 CHF

T.38 (03/02) Procedures for real-time Group 3 facsimile communication over IP networks

78pp E 22572 F 22573 S 22574 34 CHF

T.39 (10/97) Application profiles for simultaneous voice and facsimile terminals

16pp E 12674 F 12675 S 12676 12 CHF

T.42 (10/96) Continuous-tone colour representation method for facsimile

12pp E 10657 F 10658 S 10659 12 CHF

T.43 (07/97) Colour and gray-scale image representations using lossless coding scheme for facsimile

16pp E 11629 F 11630 S 11631 12 CHF

T.43 Amendment 1 (02/00) Accommodation of new and future Resolutions

8pp E 18365 F 18366 S 18367 9 CHF

T.44 (04/99) Mixed raster content (MRC)

40pp E 16549 F 16550 S 16551 22 CHF

T.44 Amendment 1 (02/00) Accommodation of new Annex B

28pp E 18434 F 18435 S 18436 17 CHF

T.45 (02/00) Run-length colour encoding

8pp E 18362 F 18363 S 18364 9 CHF

T.50 (09/92) International Reference Alphabet (IRA) (Formerly International Alphabet No. 5 or IA5) – Information technology – 7-bit coded character set for information interchange

20pp E 3177 F 3176 S 3178 15 CHF

T.51 (09/92) Latin based coded character sets for telematic services

26pp E 3224 F 3223 S 3225 15 CHF

T.51 Amendment 1 (08/95)

8pp E 6603 F 6604 S 6605 8 CHF

T.52 (03/93) Non-latin coded character sets for telematic services

88pp E 4416 F 4415 S 4417 33 CHF

T.52 Amendment 1 (10/96)

8pp E 10633 F 10634 S 10635 9 CHF

T.53 (04/94) Character coded control functions for telematic services

68pp E 5462 F 5461 S 5463 29 CHF

T.60 (03/93) Withdrawn (05/00)

Terminal equipment for use in the teletex service

Deleted as a consequence of the suppression of Teletex service

21pp E 5594 F 5593 S 5595 15 CHF

T.61 (03/93) Withdrawn (08/95)

Character repertoire and coded character sets for the international teletex service

*Never published. Deleted as a consequence of the suppression of Teletex service***T.62 (03/93)** Control procedures for teletex and Group 4 facsimile services

163pp E 5597 F 5596 S 5598 65 CHF

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.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.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
Common text with ISO/IEC
84pp E 7496 F 7497 S 7498 39 CHF

T.84 Amendment 1 (04/99) Provisions to allow registration of new compression types and versions in the SPIFF header
Common text with ISO/IEC
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 Amendment 1 (10/96)
8pp E 10860 F 10861 S 10862 9 CHF

T.85 Amendment 2 (10/97)
Covering note: 7 February 2000: French, Spanish only.
8pp E 12391 F 12392 S 12393 9 CHF

T.85 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

T.87 (06/98) Information Technology – Lossless and near-lossless compression of continuous-tone still images – Baseline
Common text with ISO/IEC
This Recommendation includes one diskette containing the JPEG-LS Lossless and near-lossless image compression reference implementation and a conformance testing image set.
72pp E 15804 F 15805 S 15806 74 CHF

T.88 (02/00) Information technology – Coded representation of picture and audio information – Lossy/lossless coding of bi-level images 165pp E 18592 F 18593 S 18594 73 CHF	T.120 (07/96) Data protocols for multimedia conferencing 24pp E 7406 F 7407 S 7408 17 CHF
T.89 (09/01) Application profiles for Recommendation T.88 – Lossy/lossless coding of bi-level images (JBIG2) for facsimile 24pp E 22191 F 22192 S 22193 12 CHF	T.120 Annex C (02/98) Lightweight profiles for the T.120 architecture 24pp E 13525 F 13526 S 13527 17 CHF
T.90 (02/92) Characteristics and protocols for terminals for telematic services in ISDN 58pp E 2809 F 2771 S 2844 24 CHF	T.121 (07/96) Generic application template 44pp E 9551 F 9552 S 9553 22 CHF
T.90 Amendment 1 (11/94) Characteristics and protocols for terminals for telematic services in ISDN 18pp E 5686 F 5685 S 5687 15 CHF	T.122 (02/98) Multipoint communication service – Service definition 44pp E 13400 F 13401 S 13402 22 CHF
T.90 Amendment 2 (07/96) 8pp E 7341 F 7342 S 7343 9 CHF	T.123 (05/99) Network-specific data protocol stacks for multimedia conferencing 76pp E 16845 F 16846 S 16847 34 CHF
T.90 Amendment 3 (06/98) Cause value for a G4 fax fallback 8pp E 13604 F 13605 S 13606 17 CHF	T.124 (02/98) Generic Conference Control 212pp E 13979 F 13980 S 13981 96 CHF
T.100 (11/88) International information exchange for interactive videotex <i>Individually through the Electronic Bookshop:</i> 22 CHF	T.125 (02/98) Multipoint communication service protocol specification 144pp E 13784 F 13785 S 13786 55 CHF
T.101 (11/94) International interworking for videotex services 826pp E 6251 F 6252 S 6253 248 CHF	T.126 (07/97) Multipoint still image and annotation protocol 132pp E 12251 F 12252 S 12253 55 CHF
T.102 (03/93) Syntax-based videotex end-to-end protocols for the circuit mode ISDN 6pp E 5116 F 5115 S 5117 8 CHF	T.127 (08/95) Multipoint binary file transfer protocol 60pp E 6432 F 6433 S 6434 25 CHF
T.103 (03/93) Syntax-based videotex end-to-end protocols for the packet mode ISDN 60pp E 5414 F 5413 S 5415 29 CHF	T.128 (02/98) Multipoint application sharing 216pp E 13727 F 13728 S 13729 96 CHF
T.104 (03/93) Packet mode access for syntax-based videotex via PSTN 13pp E 5155 F 5219 S 5254 11 CHF	T.134 (02/98) Text chat application entity 16pp E 13015 F 13016 S 13017 12 CHF
T.105 (11/94) Syntax-based videotex application layer protocol 85pp E 5689 F 5688 S 5690 34 CHF	T.135 (02/98) User-to-reservation system transactions within T.120 conferences 76pp E 13237 F 13239 S 13240 34 CHF
T.106 (03/93) Framework of videotex terminal protocols 3pp E 5209 F 5244 S 5280 8 CHF	T.136 (05/99) Remote device control application protocol 12pp E 16546 F 16547 S 16548 12 CHF
T.107 (08/95) Enhanced man machine interface for videotex and other retrieval services (VEMMI) 128pp E 6650 F 6651 S 6652 44 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 <i>Individually through the Electronic Bookshop:</i> 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
Individually through the Electronic Bookshop: 20 CHF

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 Amendment 1 (10/97) 20pp E 12725 F 12726 S 12727 17 CHF					
T.417 Amendment 2 (02/00) Amendment 2 Common text with ISO/IEC 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					
T.432 Amendment 1 (08/95) Revisions of T.432 to support G4 colour and file transfer 3pp E 6362 F 6363 S 6364 8 CHF					
T.433 (09/92) Document Transfer And Manipulation (DTAM) – Services and protocols – Protocol specification 82pp E 3652 F 3651 S 3653 33 CHF					
T.433 Amendment 1 (08/95) Revisions of T.433 to support G4 colour and file transfer 5pp E 6303 F 6304 S 6305 8 CHF					
T.434 (04/99) Binary file transfer format for the telematic services 24pp E 17281 F 17282 S 17283 17 CHF					
T.435 (08/95) Document Transfer And Manipulation (DTAM) – Services and protocols – Abstract service definition and procedures for confirmed document manipulation 64pp E 6683 F 6684 S 6685 25 CHF					
T.436 (08/95) Document Transfer And Manipulation (DTAM) – Services and protocols – Protocol specifications for confirmed document manipulation 12pp E 6597 F 6598 S 6599 11 CHF					
T.441 (11/88) Document Transfer And Manipulation (DTAM) – Operational structure <i>Individually through the Electronic Bookshop:</i> 20 CHF					
T.501 (03/93) Document application profile MM for the interchange of formatted mixed mode documents 21pp E 5532 F 5531 S 5533 15 CHF					
T.502 (11/94) Document application profile PM-11 for the interchange of simple structure, character content documents in processable and formatted forms 52pp E 5692 F 5691 S 5693 25 CHF					
T.503 (02/00) A document application profile for the interchange of Group 4 facsimile documents E 19106 F 19107 S 19108 22 CHF					
T.504 (03/93) Document application profile for videotex interworking 7pp E 5306 F 5293 S 5316 11 CHF					
T.505 (11/94) Document application profile PM-26 for the interchange of enhanced structure, mixed content documents in processable and formatted forms 100pp E 6080 F 6079 S 6081 39 CHF					

T.506 (08/93) Document application profile PM-36 for the interchange of extended document structures and mixed content documents in processable and formatted forms
180pp E 5607 F 5606 S 5608 65 CHF

T.510 (03/93) General overview of the T.510-Series Recommendations
12pp E 5298 F 5289 S 5312 11 CHF

T.521 (11/94) Communication application profile BT0 for document bulk transfer based on the session service
15pp E 5940 F 5939 S 5941 15 CHF

T.521 Amendment 1 (08/95) Communication application profile BT0 for document bulk transfer based on the session service – Amendment 1
3pp E 6300 F 6301 S 6302 8 CHF

T.522 (09/92) Communication application profile BT1 for document bulk transfer
5pp E 3319 F 3318 S 3320 8 CHF

T.523 (03/93) Communication application profile DM-1 for videotex interworking
19pp E 5381 F 5380 S 5382 15 CHF

T.541 (03/93) Operational application profile for videotex interworking
21pp E 5305 F 5292 S 5315 15 CHF

T.561 (11/88) Terminal characteristics for mixed mode of operation MM
Individually through the Electronic Bookshop: 20 CHF

T.562 (11/88) Terminal characteristics for teletex processable mode PM.1
Individually through the Electronic Bookshop: 20 CHF

T.563 (10/96) Terminal characteristics for Group 4 facsimile apparatus
28pp E 11039 F 11040 S 11041 17 CHF

T.563 Amendment 1 (07/97)
8pp E 11230 F 11231 S 11232 9 CHF

T.563 Amendment 2 (10/97) Annex C – T.30 frames for G4 facsimile
8pp E 12502 F 12503 S 12504 9 CHF

T.563 Amendment 3 (04/99)
8pp E 16223 F 16224 S 16225 9 CHF

T.563 Corrigendum 1 (06/98)

T.564 (03/93) Gateway characteristics for videotex interworking
30pp E 5538 F 5537 S 5539 15 CHF

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

To be published...

T.801 (08/02) Information technology – JPEG 2000 image coding system: Extensions

To be published...

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

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 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)

Individually through the Electronic Bookshop: 20 CHF

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
Individually through the Electronic Bookshop: 20 CHF

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
Individually through the Electronic Bookshop: 20 CHF

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
Individually through the Electronic Bookshop: 20 CHF

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: 20 CHF

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: 20 CHF

V.7 (11/88) Definitions of terms concerning data
communication over the telephone network
Individually through the Electronic Bookshop: 20 CHF

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 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 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 Amendment 1 (11/02)

7pp 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: 20 CHF

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 (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
Individually through the Electronic Bookshop: 20 CHF

V.22bis (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.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.25bis (10/96) Synchronous and asynchronous automatic dialling procedures on switched networks
28pp E 10124 F 10125 S 10226 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 Corrigendum 1 (07/01)

Available as a republished version

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.26bis (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.26ter (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.27ter (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.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.27bis (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.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.31bis (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 single-current interchange circuits controlled by contact closure
Individually through the Electronic Bookshop: 20 CHF

V.32bis (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
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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
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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

Individually through the Electronic Bookshop: 20 CHF

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 circuit-terminating equipment standardized for use on digital point-to-point leased circuits

20pp	E 10127	F 10128	S 10129	17 CHF
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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: 20 CHF

V.41 (11/88) Code-independent error-control system

Individually through the Electronic Bookshop: 20 CHF

V.42bis (01/90) Data compression procedures for data circuit-terminating equipment (DCE) using error correction procedures

27pp	E 1757	F 1758	S 1759	10 CHF
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V.42 (03/02) Error-correcting procedures for DCEs using asynchronous-to-synchronous conversion

70pp	E 22467	F 22468	S 22469	34 CHF
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V.43 (02/98) Data flow control

12pp	E 13318	F 13319	S 13320	12 CHF
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V.44 (11/00) Data compression procedures

64pp	E 20450	F 20451	S 20452	29 CHF
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V.44 Corrigendum 1 (03/02)

V.44 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: 20 CHF

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: 20 CHF

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 O.71.

Individually through the Electronic Bookshop: 20 CHF

V.56bis (08/95) Network transmission model for evaluating modem performance over 2-wire voice grade connections

64pp	E 6411	F 6412	S 6413	25 CHF
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V.56 (11/88) Comparative tests of modems for use over telephone-type circuits

Individually through the Electronic Bookshop: 20 CHF

V.56ter (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

Individually through the Electronic Bookshop: 20 CHF

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 Corrigendum 1 (07/01)

Available as a prepublished version

V.59 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 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 Corrigendum 1 (07/01)

V.92 (11/00) Enhancements to Recommendation V.90

76pp E 20395 F 20396 S 20397 34 CHF

V.92 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 Amendment 2 (03/02) Enhancements to Recommendation V.90

8pp E 22218 F 22219 S 22220 9 CHF

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 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

V.150.0 (01/03) Modem-over-IP networks:
Foundation

To be published...

V.150.1 (01/03) Modem-over-IP networks:
Procedures for the end-to-end connection of V-series DCEs

To be published...

Interface layer specifications for data communication

V.230 (11/88) General data communications interface layer 1 specification

Individually through the Electronic Bookshop: 22 CHF

Control procedures

V.250 (05/99) Serial asynchronous automatic dialling and control

96pp E 17329 F 17330 S 17331 39 CHF

V.250 Amendment 1 (07/01) Serial asynchronous automatic dialling and control

24pp E 21612 F 21613 S 21614 17 CHF

V.250 Amendment 2 (03/02) Additional commands to support Rec. V.59

8pp E 22202 F 22203 S 22204 9 CHF

V.250 Supplement 1 (06/01) Various extensions to V.250 basic command set

24pp E 21573 F 21574 S 21575 17 CHF

V.251 (02/98) Procedure for DTE-controlled call negotiation

Published as Annex A to V.25 ter (07/97), renumbered in february 98 without being republished.

1pp E 16917 F 16918 S 16919 17 CHF

V.252 (02/98) Procedure for control of V.70 and H.324 terminals by a DTE

32pp E 13082 F 13083 S 13084 17 CHF

V.253 (02/98) Control of voice-related functions in a DCE by an asynchronous DTE

100pp E 13503 F 13504 S 13505 44 CHF

Modems on digital circuits

V.300 (07/99) A 128 (144) kbit/s data circuit-terminating equipment standardized for use on digital point-to-point leased circuits

24pp E 16473 F 16474 S 16475 17 CHF

SERIES X

Data networks and open system communications

Public data networks

Services and facilities

X.1 (03/00) International user classes of service in, and categories of access to, public data networks and Integrated Services Digital Networks (ISDNs)

16pp E 17966 F 17967 S 17968 12 CHF

X.2 (03/00) International data transmission services and optional user facilities in public data networks and ISDNs

28pp E 18144 F 18145 S 18146 17 CHF

X.3 (03/00) Packet assembly/disassembly facility (PAD) in a public data network

28pp E 17969 F 17970 S 17971 9 CHF

X.4 (11/88) General structure of signals of International Alphabet No. 5 code for character oriented data transmission over public data networks

Individually through the Electronic Bookshop: 20 CHF

X.5 (10/96) Facsimile Packet Assembly/Disassembly facility (FPAD) in a public data network

20pp E 9554 F 9555 S 9556 17 CHF

X.6 (08/97) Multicast service definition

40pp E 12426 F 12427 S 12428 22 CHF

X.6 Amendment 1 (03/00) Frame relay PVC multicast service definition
8pp E 19710 F 19711 S 19712 9 CHF

X.7 (03/00) Technical characteristics of data transmission services
48pp E 18013 F 18014 S 18015 22 CHF

X.8 (07/94) Multi-aspect PAD (MAP) framework and service definition
9pp E 5544 F 5543 S 5545 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

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.20bis (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.21bis (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 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 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 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

To be published...

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.42 (03/00) Procedures and methods for accessing a public data network from a DTE operating under control of a generalized polling protocol

36pp E 20174 F 20175 S 20176 22 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 (11/88) Fundamental parameters of a multiplexing scheme for the international interface between synchronous data networks

Individually through the Electronic Bookshop: 20 CHF

X.50bis (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.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.51bis (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 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

To be published...

X.77 (08/97) Interworking between PSPDNs via B-ISDN

28pp E 12432 F 12433 S 12434 17 CHF

X.77 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 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 Amendment 1 (04/02) Using Ethernet flow control as rate limiting

8pp 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

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
To be published...

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 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
44pp 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 circuit-switched 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 packet-switched services

Published with ITU-T T.135.

36pp E 12505 F 12506 S 12507 22 CHF

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 packet-switched 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.144 (10/00) User information transfer performance parameters for data networks providing international frame relay PVC service
 46pp E 20236 F 20237 S 20238 22 CHF

Network aspects

X.144 Amendment 1 (02/03)

To be published...

Network aspects

X.145 (10/96) Performance for data networks providing international frame relay SVC service
 20pp E 10173 F 10174 S 10175 17 CHF

Network aspects

X.145 Amendment 1 (02/03)

To be published...

Network aspects

X.146 (10/00) Performance objectives and quality of service classes applicable to frame relay
 24pp E 19937 F 19938 S 19939 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
 To be published...

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

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
 16pp 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)
Withdrawn on 30 October 2002 as it has been superseded by ITU-T X.680-X.683 (1997 and 2002)
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)

Withdrawn on 30 October 2002 as it has been superseded by ITU-T X.680-X.683 (1997 and 2002)

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.213 Amendment 2 (03/00) Addition of the authority and format identifier for ITU-T international network designators

4pp E 19567 F 19568 S 19569 9 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 Amendment 1 (08/97) Efficiency enhancements

Common text with ISO/IEC

8pp E 12367 F 12368 S 12369 9 CHF

X.215 Amendment 2 (12/97) Nested connections functional unit

Common text with ISO/IEC

8pp E 12836 F 12837 S 12838 9 CHF

X.215 (1995) Technical Cor. 1 (03/00)

X.216 (07/94) Information technology – Open Systems Interconnection – Presentation service definition

Common text with ISO/IEC

41pp E 5363 F 5948 S 5710 20 CHF

X.216 Amendment 1 (08/97) Efficiency enhancements

Common text with ISO/IEC

8pp E 12370 F 12371 S 12372 9 CHF

X.216 Amendment 2 (12/97) Nested connections functional unit

Common text with ISO/IEC

8pp E 12898 F 12899 S 12900 9 CHF

X.217 (04/95) Information technology – Open Systems Interconnection – Service definition for the Association Control Service Element

Common text with ISO/IEC

28pp E 6699 F 7142 S 7143 15 CHF

X.217bis (09/98) Information technology – Open Systems Interconnection – Service definition for the Application Service Object Association Control Service Element

Common text with ISO/IEC

32pp E 14399 F 14400 S 14401 22 CHF

X.217 Amendment 1 (10/96) Support of authentication mechanisms for the connectionless mode

Common text with ISO/IEC

8pp E 10866 F 10867 S 10868 9 CHF

X.217 Amendment 2 (08/97) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE's

8pp E 12352 F 12353 S 12354 9 CHF

X.218 (03/93) Reliable Transfer: Model and service definition

17pp E 3625 F 3624 S 3626 15 CHF

X.219 (11/88) Remote Operations: Model, notation and service definition

Individually through the Electronic Bookshop: 20 CHF

Connection-mode protocol specifications

X.220 (03/93) Use of X.200-Series protocols in CCITT applications

4pp E 3631 F 3630 S 3632 8 CHF

X.222 (04/95) Use of X.25 LAPB-compatible Data Link procedures to provide the OSI connection-mode Data Link service

This title results from the modification of ITU-T X.222 (04/95) former title by Amendment 1 (10/96).

8pp E 6269 F 6270 S 6271 11 CHF

X.222 Amendment 1 (10/96) Frame relay mapping
8pp E 10514 F 10515 S 10516 9 CHF

X.223 (11/93) Use of X.25 to provide the OSI connection-mode Network service for ITU-T applications
35pp E 5619 F 5618 S 5620 20 CHF

X.223 Amendment 1 (10/96) Transit delay and other refinements
8pp E 10538 F 10539 S 10540 9 CHF

X.224 (11/95) Information technology – Open Systems Interconnection – Protocol for providing the connection-mode transport service
Common text with ISO/IEC
156pp E 9681 F 9682 S 9683 61 CHF

X.224 Amendment 1 (08/97) Relaxation of class conformance requirements and expedited data service feature negotiation
Common text with ISO/IEC
8pp E 12373 F 12374 S 12375 9 CHF

X.225 (11/95) Information technology – Open Systems Interconnection – Connection-oriented Session protocol: Protocol specification
Common text with ISO/IEC
180pp E 6734 F 9842 S 9843 73 CHF

X.225 Amendment 1 (08/97) Efficiency enhancements
Common text with ISO/IEC
36pp E 12223 F 12224 S 12225 22 CHF

X.225 Amendment 2 (12/97) Nested connections functional unit
Common text with ISO/IEC
16pp E 12901 F 12902 S 12903 12 CHF

X.225 (1995) Technical Cor. 1 (03/00)

X.226 (07/94) Information technology – Open Systems Interconnection – Connection-oriented Presentation protocol: Protocol specification
Common text with ISO/IEC
60pp E 5364 F 5949 S 5711 29 CHF

X.226 Amendment 1 (08/97) Nested connections functional unit
24pp E 12226 F 12227 S 12228 17 CHF

X.226 Amendment 2 (12/97) Nested connections functional unit
Common text with ISO/IEC
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
Common text with ISO/IEC
44pp E 6743 F 9956 S 9957 22 CHF

X.227bis (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 Amendment 1 (10/96) Incorporation of extensibility markers
Common text with ISO/IEC
12pp E 10869 F 10870 S 10871 12 CHF

X.227 Amendment 2 (08/97) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE's
8pp E 12376 F 12377 S 12378 9 CHF

X.228 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 Amendment 1 (11/95) Addition of connectionless-mode multicast capability
Common text with ISO/IEC
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 Amendment 1 (06/99) Efficiency enhancements
Common text with ISO/IEC
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 Amendment 1 (06/99) Efficiency enhancements
Common text with ISO/IEC
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.237bis (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 Amendment 1 (10/96) Incorporation of extensibility markers and authentication parameters
Common text with ISO/IEC
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
Individually through the Electronic Bookshop: 20 CHF

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 – Open Systems 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 Amendment 1 (10/96) Support of authentication parameters
Common text with ISO/IEC
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
Common text with ISO/IEC
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

Common text with ISO/IEC

36pp 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)

To be published...

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: 20 CHF

X.371/Y.1402 (02/01) General arrangements for interworking between Public Data Networks and the Internet

Available as a prepublished version

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

Available as a prepublished version

To be published...

X.402 (06/99) Information technology – Message Handling Systems (MHS): Overall architecture

Common text with ISO/IEC

Available as a prepublished version

To be published...

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: 20 CHF

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: 20 CHF

X.408 (11/88) Message handling systems: Encoded information type conversion rules

Individually through the Electronic Bookshop: 22 CHF

X.411 (06/99) Information technology – Message Handling Systems (MHS): Message transfer system: abstract service definition and procedures

Common text with ISO/IEC

Available as a prepublished version

To be published...

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

Available as a prepublished version

To be published...

X.420 (06/99) Information technology – Message Handling Systems (MHS): Interpersonal messaging system

Common text with ISO/IEC

Available as a prepublished version

To be published...

X.421 (06/99) Message handling systems: COMFAX use of MHS

16pp 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
Available as a prepublished version
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
Common text with ISO/IEC
146pp E 19454 F 19455 S 19456 61 CHF

X.509 (2000) Technical Cor.1 (10/01)

X.509 Cor2 (02/01)
Common text with ISO/IEC

X.509 Cor2 (02/01)
Common text with ISO/IEC

X.509 (2000) Technical Cor.2 (04/02)

X.509 Corrigendum 3 (02/03)
To be published...

X.509 Corrigendum 5 (02/03)
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

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) Enhanced Communications Transport Protocol: Specification of QoS management for simplex multicast transport
To be published...

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 – Open Systems 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 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
Common text with ISO/IEC
12pp E 9725 F 9726 S 9727 12 CHF

X.660 Amendment 2 (08/97) Incorporation of the root arcs of the object identifier tree
Common text with ISO/IEC
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 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 (07/02) Information technology – Abstract Syntax Notation One (ASN.1): Specification of basic notation
To be published...

X.680-X.693 (07/02) ASN.1

To be published...

X.681 (07/02) Information technology – Abstract Syntax Notation One (ASN.1): Information object specification
To be published...

X.682 (07/02) Information technology – Abstract Syntax Notation One (ASN.1): Constraint specification
To be published...

X.683 (07/02) Information technology – Abstract Syntax Notation One (ASN.1): Parameterization of ASN.1 specifications

To be published...

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)

To be published...

X.691 (07/02) Information technology – ASN.1 encoding rules: Specification of Packed Encoding Rules (PER)

To be published...

X.692 (03/02) Information technology – ASN.1 encoding rules – Specification of encoding control notation (ECN)

To be published...

X.693 (12/01) Information technology – ASN.1 encoding rules: XML encoding rules

To be published...

OSI management

Systems Management framework and architecture

X.700 (09/92) Management framework for Open Systems Interconnection (OSI) for CCITT applications
11pp E 3438 F 3437 S 3439 11 CHF

X.701 (08/97) Information technology – Open Systems Interconnection – Systems management overview
Common text with ISO/IEC
32pp E 12568 F 12569 S 12570 17 CHF

X.702 (11/95) Information technology – Open Systems Interconnection – Application context for systems management with transaction processing
Common text with ISO/IEC
16pp E 6701 F 7102 S 7103 11 CHF

X.703 (10/97) Information technology – Open Distributed Management Architecture
Common text with ISO/IEC
56pp E 12857 F 12858 S 12859 29 CHF

X.703 Amendment 1 (06/98) Support using Common Object Request Broker Architecture (CORBA)
Common text with ISO/IEC
12pp E 14172 F 14173 S 14174 12 CHF

Management Communication Service and Protocol

X.710 (10/97) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE's
36pp E 12481 F 12482 S 12483 22 CHF

X.711 (10/97) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE's
40pp E 12616 F 12617 S 12618 22 CHF

X.711 (1997) Technical Cor. 1 (03/99)

X.711 (1997) Technical Cor.2 (02/00)

Common text with ISO/IEC

X.712 (09/92) Information technology – Open Systems Interconnection – Common management information protocol: Protocol Implementation Conformance Statement (PICS) proforma
Common text with ISO/IEC
61pp E 3084 F 3094 S 3103 29 CHF

X.712 (1992) Technical Cor. 3 (06/98)

X.712 (1992) Technical Cor. 1 (10/96) Technical Corrigenda 1 and 2
8pp

Structure of Management Information

X.720 (01/92) Information technology – Open Systems Interconnection – Structure of management information: Management information model
Common text with ISO/IEC
31pp E 3158 F 3157 S 3159 15 CHF

X.720 Amendment 1 (11/95) Generalization of terms
Common text with ISO/IEC
8pp E 6694 F 6947 S 6948 8 CHF

X.720 (1992) Technical Cor. 1 (02/94)

X.721 (02/92) Information technology – Open Systems Interconnection – Structure of management information: Definition of management information
Common text with ISO/IEC
63pp E 2828 F 2793 S 2863 29 CHF

X.721 Amendment 1 (08/01) States to support lifecycle
10pp E 21288 S 21290 9 CHF

X.721 (1992) Technical Cor.1 (02/94)

X.721 (1992) Technical Cor.2 (10/96)

X.721 (1992) Technical Cor.3 (06/98)

X.721 (1992) Technical Cor.4 (02/00)

X.722 (01/92) Information technology – Open Systems Interconnection – Structure of Management Information: Guidelines for the definition of managed objects
Common text with ISO/IEC
50pp E 3045 F 3086 S 3046 24 CHF

X.722 Amendment 1 (11/95) Set by create and component registration
Common text with ISO/IEC
8pp E 6695 F 6964 S 6965 8 CHF

X.722 Amendment 2 (08/97) Addition of the NO-MODIFY syntax element and guidelines extension
Common text with ISO/IEC
16pp E 12484 F 12485 S 12486 12 CHF

X.722 Amendment 3 (08/97) Guidelines for the use of Z in formalizing the behaviour of managed objects
Common text with ISO/IEC
24pp E 12534 F 12535 S 12536 17 CHF

X.722 (1992) Technical Cor. 1 (10/96)

X.722 (1992) Technical Cor.2 (02/00)
Common text with ISO/IEC

X.723 (11/93) Information technology – Open Systems Interconnection – Structure of management information: Generic management information
Common text with ISO/IEC
18pp E 4488 F 5213 S 5248 15 CHF

X.723 (1993) Technical Cor. 1 (06/98)

X.723 (1993) Technical Cor.2 (02/00)

X.724 (10/96) Information technology – Open Systems Interconnection – Structure of management information: Requirements and guidelines for implementation conformance statement proformas associated with OSI management
Common text with ISO/IEC
64pp E 9646 F 9647 S 9648 29 CHF

X.725 (11/95) Information technology – Open Systems Interconnection – Structure of management information: General Relationship Model
Common text with ISO/IEC
52pp E 6750 F 9769 S 9770 29 CHF

X.727 (03/99) Information technology – Open Systems Interconnection – Structure of management information: Systems management application layer managed objects
Common text with ISO/IEC
16pp E 16090 F 16091 S 16092 17 CHF

Management functions and ODMA functions

X.730 (01/92) Information technology – Open Systems Interconnection – Systems Management: Object management function
Common text with ISO/IEC
24pp E 3047 F 3087 S 3098 15 CHF

X.730 Amendment 1 (04/95) Implementation Conformance Statement proformas
Common text with ISO/IEC
32pp E 6423 F 6910 S 6911 15 CHF

X.730 (1992) Am1 Technical Cor.1 (10/96)

X.731 (01/92) Information technology – Open Systems Interconnection – Systems Management: State management function
Common text with ISO/IEC
23pp E 3044 F 3085 S 3097 15 CHF

X.731 Amendment 1 (04/95) Implementation Conformance Statement proformas
Common text with ISO/IEC
24pp E 6422 F 6912 S 6913 15 CHF

X.731 (1992) Am1 Technical Cor.1 (10/96)

X.731 Amendment 2 (01/01) Amendment to X.721 and X.731 to support LIFECYCLE state
Common text with ISO/IEC
10pp E 19903 F 19904 S 19905 9 CHF

X.731 (1992) Technical Cor. 1 (04/95)

X.731 (1992) Technical Cor. 2 (01/01)

X.732 (01/92) Information technology – Open Systems Interconnection – Systems Management: Attributes for representing relationships
Common text with ISO/IEC
17pp E 3048 F 3088 S 3099 15 CHF

X.732 Amendment 1 (04/95) Implementation Conformance Statement proformas
Common text with ISO/IEC
28pp E 6425 F 6949 S 6950 15 CHF

X.732 (1992) Amendment 1 Technical Cor.1 (10/96)

X.733 (02/92) Information technology – Open Systems Interconnection – Systems Management: Alarm reporting function
Common text with ISO/IEC
20pp E 2830 F 2795 S 2865 15 CHF

X.733 Amendment 1 (04/95) Implementation
Conformance Statement proformas
Common text with ISO/IEC
36pp E 6293 F 6462 S 6723 20 CHF

X.733 Amendment 1 Corrigendum 1 (10/96)
To be published...

X.733 (1992) Technical Cor. 1 (02/94)

X.733 (1992) Technical Cor. 2 (03/99)

X.733 Amendment 1 (10/96) Technical
Corrigendum 2
Common text with ISO/IEC
8pp

X.734 (09/92) Information technology – Open
Systems Interconnection – Systems Management:
Event report management function
Common text with ISO/IEC
19pp E 3066 F 3089 S 3100 15 CHF

X.734 Amendment 1 (04/95) Implementation
Conformance Statement proformas
Common text with ISO/IEC
28pp E 6292 F 6738 S 6525 15 CHF

X.734 (1992) Am1 Technical Cor.1 (10/96)

X.734 (1992) Technical Cor. 1 (02/94)

X.734 (1992) Technical Cor. 2 (03/99)

X.735 (09/92) Information technology – Open
Systems Interconnection – Systems Management:
Log control function
Common text with ISO/IEC
20pp E 3130 F 3129 S 3131 15 CHF

X.735 Amendment 1 (04/95) Implementation
Conformance Statement proformas
Common text with ISO/IEC
8pp E 6290 F 6896 S 6739 15 CHF

X.735 (1992) Amendment 1 Technical Cor.1 (10/96)

X.735 (1992) Technical Cor.1 (03/01)
Common text with ISO/IEC

X.736 (01/92) Information technology – Open
Systems Interconnection – Systems Management:
Security alarm reporting function
Common text with ISO/IEC
15pp E 2807 F 2769 S 2842 15 CHF

X.736 Amendment 1 (04/95) Implementation
Conformance Statement proformas
Common text with ISO/IEC
8pp E 6649 F 6740 S 6718 15 CHF

X.736 (1992) Amendment 1 Technical Cor.1 (10/96)

X.737 (11/95) Information technology – Open
Systems Interconnection – Systems management:
Confidence and diagnostic test categories
Common text with ISO/IEC
68pp E 6781 F 7511 S 7512 30 CHF

X.737 (1995) Technical Cor. 1 (06/98)

X.737 (1995) Technical Cor.2 (02/00)

X.737 (1995) Technical Cor.3 (03/01)
Common text with ISO/IEC

X.738 (11/93) Information technology – Open
Systems Interconnection – Systems management:
Summarization function
Common text with ISO/IEC
59pp E 5704 F 6296 S 6183 30 CHF

X.738 Amendment 1 (10/96) Implementation
conformance statement proformas
Common text with ISO/IEC
92pp E 9621 F 9622 S 9623 39 CHF

X.738 (1993) Technical Cor. 1 (06/98)

X.738 (1993) Technical Cor.2 (02/00)

X.739 (11/93) Information technology – Open
Systems Interconnection – Systems Management:
Metric objects and attributes
Common text with ISO/IEC
50pp E 5448 F 6295 S 6184 24 CHF

X.739 Amendment 1 (08/97) Implementation
conformance statement proformas
Common text with ISO/IEC
60pp E 12619 F 12620 S 12621 29 CHF

X.739 (1993) Technical Cor. 1 (06/98)

X.740 (09/92) Information technology – Open
Systems Interconnection – Systems Management:
Security audit trail function
Common text with ISO/IEC
27pp E 3108 F 3107 S 3109 15 CHF

X.740 (1992) Technical Cor. 1 (04/95)

X.740 (1992) Technical Cor. 2 (10/96)

X.740 (1992) Technical Cor. 3 (06/98)

X.741 (04/95) Information technology – Open
Systems Interconnection – Systems management:
Objects and attributes for access control
Common text with ISO/IEC
120pp E 6327 F 6769 S 6730 44 CHF

X.741 (1995) Technical Cor. 1 (10/96)

X.741 (1995) Technical Cor. 2 (06/98)

X.741 (1995) Technical Cor.3 (02/00)

X.742 (04/95) Information technology – Open
Systems Interconnection – Systems management:
Usage metering function for accounting purposes
Common text with ISO/IEC
50pp E 6289 F 6735 S 6722 25 CHF

X.742 Amendment 1 (10/97) Implementation
conformance statement proformas
Common text with ISO/IEC
52pp E 12845 F 12846 S 12847 29 CHF

X.742 (1995) Technical Cor. 1 (06/98)

X.742 (1995) Technical Cor.2 (02/00)

X.743 (06/98) Information technology – Open
Systems Interconnection – Systems Management:
Time Management Function
Common text with ISO/IEC
92pp E 14221 F 14222 S 14223 96 CHF

X.743 (1998) Technical Cor.1 (03/01)

X.744 (10/96) Information technology – Open
Systems Interconnection – Systems management:
Software Management function
Common text with ISO/IEC
140pp E 9965 F 9966 S 9967 55 CHF

X.744 (1996) Technical Cor. 1 (06/98)

Common text with ISO/IEC

*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)

X.744 (1996) Technical Cor.3 (03/01)

X.745 (11/93) Information technology – Open
Systems Interconnection – Systems Management:
Test management function
Common text with ISO/IEC
48pp E 5082 F 5642 S 5643 20 CHF

X.745 (1993) Technical Cor. 1 (08/97)

X.745 (1993) Technical Cor. 2 (06/98)

X.745 (1993) Technical Cor.3 (02/00)

X.746 (02/00) Information technology – Open
Systems Interconnection – Systems management:
Scheduling function
Common text with ISO/IEC
50pp E 20619 F 20620 S 20621 22 CHF

X.746 Erratum (02/00) Erratum to pre-published
Recommendation ITU-T X.746 (02/00)

X.748 (03/99) Information technology – Open
Systems Interconnection – Systems Management:
Response Time Monitoring Function
Common text with ISO/IEC
92pp E 16502 F 16503 S 16504 39 CHF

X.749 (08/97) Information technology – Open
Systems Interconnection – Systems management:
Management domain and management policy
management function
Common text with ISO/IEC

104pp E 11970 F 11971 S 11972 44 CHF

X.750 (10/96) Information technology – Open
Systems Interconnection – Systems management:
Management knowledge management function
Common text with ISO/IEC

108pp E 9719 F 9720 S 9721 44 CHF

X.750 Amendment 1 (10/97) Extension for General
Relationship model
Common text with ISO/IEC

20pp E 12848 F 12849 S 12850 17 CHF

X.750 (1996) Technical Cor.1 (02/00)

X.751 (11/95) Information technology – Open
Systems Interconnection – Systems management:
Changeover function
Common text with ISO/IEC

60pp E 6759 F 10065 S 10066 29 CHF

X.751 (1995) Technical Cor. 1 (06/98)

X.751 (1995) Technical Cor.2 (02/00)

X.753 (10/97) Information technology – Open
Systems Interconnection – Systems management:
Command sequencer for systems management
Common text with ISO/IEC

180pp E 13006 F 13007 S 13008 73 CHF

X.754 (02/00) Enhanced Event Control Function
20pp E 20434 F 20435 S 20436 17 CHF

X.770 (01/01) ODMA notification dispatch function
Common text with ISO/IEC

32pp E 20479 F 20480 S 20481 22 CHF

X.780 (01/01) TMN guidelines for defining CORBA managed objects

86pp E 20494 F 20495 S 20496 39 CHF

X.780 Amendment 1 (05/02) System Objects and user guide for bulk attribute retrieval

14pp E 22264 F 22265 S 22266 12 CHF

X.780 Corrigendum 1 (10/01)

X.780 Corrigendum 2 (05/02)

X.780.1 (08/01) TMN guidelines for defining coarse-grained CORBA managed object interfaces

32pp E 21901 F 21902 S 21903 17 CHF

X.780.1 Amendment 1 (05/02) System facades and user guide for bulk attribute retrieval

12pp E 22290 F 22291 S 22292 9 CHF

X.780.1 Corrigendum 1 (05/02)

X.781 (08/01) Requirements and guidelines for Implementation Conformance Statements proformas associated with CORBA-based systems

32pp E 21793 F 21794 S 21795 17 CHF

X.790 (11/95) Trouble management function for ITU-T applications

120pp E 6473 F 6474 S 6475 44 CHF

X.790 Amendment 1 (10/96) Implementation conformance statement proformas

132pp E 10182 F 10183 S 10184 55 CHF

X.790 Corrigendum 1 (03/99)

X.790 Corrigendum 2 (03/01)

X.791 (10/96) Profile for trouble management function for ITU-T applications

152pp E 11049 F 11050 S 11051 61 CHF

X.792 (03/99) Configuration audit support function for ITU-T applications

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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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ISO/IEC 10733	X.283
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ISO/IEC 10737	X.284
ISO/IEC 10742	X.282
ISO/IEC 10745	X.803
ISO/IEC 10746-1	X.901
ISO/IEC 10746-2	X.902
ISO/IEC 10746-3	X.903
ISO/IEC 10746-4	X.904
ISO/IEC 10918-1	T.81
ISO/IEC 10918-2	T.83
ISO/IEC 10918-3	T.84
ISO/IEC 10918-4	T.86
ISO/IEC ISP 11181-1	T.505
ISO/IEC ISP 11182-1	T.506
ISO/IEC ISP 11188-1	X.637
ISO/IEC ISP 11188-2	X.639
ISO/IEC ISP 11188-3	X.638
ISO/IEC 11544	T.82
ISO/IEC 11570	X.264
ISO/IEC 11575	X.222
ISO/IEC 11577	X.273
ISO/IEC 11586-1	X.830
ISO/IEC 11586-2	X.831
ISO/IEC 11586-3	X.832
ISO/IEC 11586-4	X.833
ISO/IEC 11586-5	X.834
ISO/IEC 11586-6	X.835
ISO/IEC 11587	X.702
ISO/IEC 11588-1	X.460
ISO/IEC 11588-3	X.462
ISO/IEC 11588-8	X.467
ISO/IEC 12062-2	X.481
ISO/IEC 12062-6	X.487
ISO/IEC 12063-2	X.486
ISO/IEC 12063-5	X.488

ISO/IEC 13235-1	X.950
ISO/IEC 13235-3	X.952
ISO/IEC 13236	X.641
ISO/IEC 13243	X.642
ISO/IEC 13244	X.703
ISO/IEC 13248-1	X.583
ISO/IEC 13248-2	X.584
ISO/IEC 13248-3	X.585
ISO/IEC 13248-4	X.586
ISO/IEC 13252	X.605
ISO/IEC 13522-1	T.171
ISO/IEC TR 13594	X.802
ISO/IEC 13642	X.281
ISO/IEC 13712-1	X.880
ISO/IEC 13712-2	X.881
ISO/IEC 13712-3	X.882
ISO/IEC 13818-1	H.222.0
ISO/IEC 13818-2	H.262
ISO/IEC 14492	T.88
ISO/IEC 14495-1	T.87
ISO/IEC 14516	X.842
ISO/IEC 14608-1	X.581
ISO/IEC 14608-2	X.582
ISO/IEC 14699	X.634
ISO/IEC 14700	X.633
ISO/IEC 14750	X.920
ISO/IEC 14752	X.931
ISO/IEC 14753	X.930
ISO/IEC 14765	X.260
ISO/IEC 14769	X.960
ISO/IEC 14771	X.910
ISO/IEC TR 15294	V.43
ISO/IEC 15816	X.841
ISO/IEC 15945	X.843
ISO/IEC 15953	X.217 bis
ISO/IEC 15954	X.227 bis
ISO/IEC 15955	X.237 bis
ISO/IEC 16485	T.44

ITU-T Recommendations to ISO/IEC Standards

F.400/X.400	ISO/IEC 10021-1	X.217 bis	ISO/IEC 15953	X.296	ISO/IEC 9646-7
F.435	ISO/IEC 10021-8	X.218	ISO/IEC 9066-1	X.402	ISO/IEC 10021-2
H.222.0	ISO/IEC 13818-1	X.219	ISO/IEC 9072-1	X.404	ISO/IEC 10021-11
H.262	ISO/IEC 13818-2	X.222	ISO/IEC 11575	X.411	ISO/IEC 10021-4
T.44	ISO/IEC 16485	X.223	ISO/IEC 8878	X.412	ISO/IEC 10021-10
T.50	ISO 646	X.224	ISO/IEC 8073	X.413	ISO/IEC 10021-5
T.81	ISO/IEC 10918-1	X.225	ISO/IEC 8327-1	X.419	ISO/IEC 10021-6
T.82	ISO/IEC 11544	X.226	ISO/IEC 8823-1	X.420	ISO/IEC 10021-7
T.83	ISO/IEC 10918-2	X.227	ISO/IEC 8650-1	X.435	ISO/IEC 10021-9
T.84	ISO/IEC 10918-3	X.227 bis	ISO/IEC 15954	X.460	ISO/IEC 11588-1
T.86	ISO/IEC 10918-4	X.228	ISO/IEC 9066-2	X.462	ISO/IEC 11588-3
T.87	ISO/IEC 14495-1	X.229	ISO/IEC 9072-2	X.467	ISO/IEC 11588-8
T.88	ISO/IEC 14492	X.233	ISO/IEC 8473-1	X.481	ISO/IEC 12062-2
T.171	ISO/IEC 13522-1	X.234	ISO/IEC 8602	X.482	ISO/IEC 10611-3
T.411	ISO/IEC 8613-1	X.235	ISO/IEC 9548-1	X.483	ISO/IEC 10611-4
T.412	ISO/IEC 8613-2	X.236	ISO/IEC 9576-1	X.484	ISO/IEC 10611-5
T.413	ISO/IEC 8613-3	X.237	ISO/IEC 10035-1	X.486	ISO/IEC 12063-2
T.414	ISO/IEC 8613-4	X.237 bis	ISO/IEC 15955	X.487	ISO/IEC 12062-6
T.415	ISO/IEC 8613-5	X.245	ISO/IEC 8327-2	X.488	ISO/IEC 12063-5
T.416	ISO/IEC 8613-6	X.246	ISO/IEC 8823-2	X.500	ISO/IEC 9594-1
T.417	ISO/IEC 8613-7	X.247	ISO/IEC 8650-2	X.501	ISO/IEC 9594-2
T.418	ISO/IEC 8613-8	X.248	ISO/IEC 9066-3	X.509	ISO/IEC 9594-8
T.419	ISO/IEC 8613-9	X.249	ISO/IEC 9072-3	X.511	ISO/IEC 9594-3
T.421	ISO/IEC 8613-11	X.255	ISO/IEC 9548-2	X.518	ISO/IEC 9594-4
T.422	ISO/IEC 8613-12	X.256	ISO/IEC 9576-2	X.519	ISO/IEC 9594-5
T.424	ISO/IEC 8613-14	X.257	ISO/IEC 10035-2	X.520	ISO/IEC 9594-6
T.502	ISO/IEC ISP 10610-1	X.260	ISO/IEC 14765	X.521	ISO/IEC 9594-7
T.505	ISO/IEC ISP 11181-1	X.263	ISO/IEC 9577	X.525	ISO/IEC 9594-9
T.506	ISO/IEC ISP 11182-1	X.264	ISO/IEC 11570	X.530	ISO/IEC 9594-10
V.43	ISO/IEC TR 15294	X.273	ISO/IEC 11577	X.581	ISO/IEC 14608-1
X.200	ISO/IEC 7498-1	X.274	ISO/IEC 10736	X.582	ISO/IEC 14608-2
X.207	ISO/IEC 9545	X.281	ISO/IEC 13642	X.583	ISO/IEC 13248-1
X.208	ISO/IEC 8824	X.282	ISO/IEC 10742	X.584	ISO/IEC 13248-2
X.209	ISO/IEC 8825	X.283	ISO/IEC 10733	X.585	ISO/IEC 13248-3
X.210	ISO/IEC 10731	X.284	ISO/IEC 10737	X.586	ISO/IEC 13248-4
X.211	ISO/IEC 10022	X.287	ISO/IEC 10165-8	X.605	ISO/IEC 13252
X.212	ISO/IEC 8886	X.290	ISO/IEC 9646-1	X.612	ISO/IEC 9574
X.213	ISO/IEC 8348	X.291	ISO/IEC 9646-2	X.613	ISO/IEC 10588
X.214	ISO/IEC 8072	X.292	ISO/IEC 9646-3	X.614	ISO/IEC 10732
X.215	ISO/IEC 8326	X.293	ISO/IEC 9646-4	X.622	ISO/IEC 8473-3
X.216	ISO/IEC 8822	X.294	ISO/IEC 9646-5	X.623	ISO/IEC 8473-4
X.217	ISO/IEC 8649	X.295	ISO/IEC 9646-6	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
X.642	ISO/IEC 13243
X.650	ISO/IEC 7498-3
X.660	ISO/IEC 9834-1
X.662	ISO/IEC 9834-3
X.665	ISO/IEC 9834-6
X.666	ISO/IEC 9834-7
X.680	ISO/IEC 8824-1
X.681	ISO/IEC 8824-2
X.682	ISO/IEC 8824-3
X.683	ISO/IEC 8824-4
X.690	ISO/IEC 8825-1
X.691	ISO/IEC 8825-2
X.700	ISO/IEC 7498-4
X.701	ISO/IEC 10040
X.702	ISO/IEC 11587
X.703	ISO/IEC 13244
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
X.722	ISO/IEC 10165-4
X.723	ISO/IEC 10165-5
X.724	ISO/IEC 10165-6
X.725	ISO/IEC 10165-7
X.727	ISO/IEC 10165-9

X.730	ISO/IEC 10164-1
X.731	ISO/IEC 10164-2
X.732	ISO/IEC 10164-3
X.733	ISO/IEC 10164-4
X.734	ISO/IEC 10164-5
X.735	ISO/IEC 10164-6
X.736	ISO/IEC 10164-7
X.737	ISO/IEC 10164-14
X.738	ISO/IEC 10164-13
X.739	ISO/IEC 10164-11
X.740	ISO/IEC 10164-8
X.741	ISO/IEC 10164-9
X.742	ISO/IEC 10164-10
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
X.815	ISO/IEC 10181-6
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 ITU Radiocommunications Sector and subsequently transferred to 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 measurement 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-programme 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 transmissions 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 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

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

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 20 CHF

Protection of telecommunication buildings from fire (2001)

Article: E 19255 F 19256 S 19257 28 CHF

Handbook on Marinized Terrestrial Cables (2001)

Article: E 20502 F 20503 S 20504 34 CHF

Addition to section 3 of the Handbook on Telephonometry (2001)

Article: E 20261 F 20262 S 20263 12 CHF

Guide to the use of ITU-T publications produced by Study Group 5 aimed at achieving electromagnetic compatibility and safety (2001)

Article: E 20954 F 20955 S 20956 17 CHF

Handbook on interference measuring techniques (2001)

Article: E 20506 F 20505 S 20507 38 CHF

Protection against Electromagnetic Effects

Earthing of Telecommunication Installations (1976)

Article: E 497 F 498 S 499 41 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 (1990)

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 (1990)

Article: E 1775 F 1766 S 1784 56 CHF

Volume IV: Inducing currents and voltages in electrified railway systems (1990)

Article: E 1776 F 1767 S 1785 62 CHF

Volume V: Inducing currents and voltages in power transmission and distribution systems (1999)

Article: E 15071 F 15072 S 15073 24 CHF

Volume VI: Danger and disturbance (1990)

Article: E 1778 F 1769 S 1787 21 CHF

Volume VII: Protective measures and safety precautions. (1990)

Article: E 1779 F 1770 S 1788 21 CHF

Volume VIII: Protective devices (1990)

Article: E 1780 F 1771 S 1789 9 CHF

Volume IX: Testing methods and measuring apparatus (1990)

Article: E 1781 F 1772 S 1790 84 CHF

Measurement Methods

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

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 CD-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 purpose
G.722 Appendix II (03/87)	This document corresponds to ITU-T Rec. G.722 Appendix II which was published in the Blue Book (1988). It includes one diskette containing the digital test sequences for the verification of the G.722 SB-ADPCM codec
G.722.1 (09/99)	This annex includes one CD-ROM containing the reference code and the test vectors for ITU-T G.722.1 algorithm implementation verification
G.722.1 Annex B (11/00)	
G.722.2 Annex C (01/02)	
G.722.2 Annex D (01/02)	
G.723.1 Annex A (11/96)	This annex includes 3 diskettes which are common to the Recommendation's main body and to this annex, and which contain test vectors and the C reference code for implementation verification of the G.723.1 fixed point dual rate speech coder for multimedia communications
G.723.1 Annex B (11/96)	This annex includes one CD-ROM containing the reference code and the test vectors for implementation verification of the G.723.1 floating point speech coder. The CD-ROM may be replaced on demand by 14 diskettes
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 ITU-T Rec. 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)
G.727 Appendix I test vectors (03/91)	This document corresponds to ITU-T Rec. G.727 Appendix I. It includes 6 diskettes containing digital test sequences for the verification of the G.727 embedded ADPCM codec implementations. The document reproduces the user guide published in the CCITT Collective Letter No. 12/XV (1991)

Series	Subject
G.728 Annex H (05/99)	This annex includes one CD-ROM containing the test data for verification of ITU-T Rec. G.728 Annex H low bit-rate LD-CELP implementations
G.728 Annex J (09/99)	This annex includes one CD-ROM containing the test vectors for verification of ITU-T Rec. G.728 Annex J variable bit-rate LD-CELP implementations
G.728 Appendix I Software (07/95)	This document corresponds to ITU-T Rec. G.728 Appendix I. It includes 4 diskettes containing programs and test sequences for verification of the floating point and fixed point implementations of the G.728 LD-CELP algorithm. The document reproduces the user guide published in the CCITT Collective Letter No. 17/XV (1992)
G.729 (03/96)	This Recommendation includes 3 diskettes containing source code and test sequences for implementation verification of the algorithm of the G.729 8 kbit/s CS-ACELP speech coder
G.729 Annex A (11/96)	This annex includes 3 diskettes containing source code and test sequences for implementation verification of the algorithm of the G.729 reduced complexity 8 kbit/s CS-ACELP speech coder
G.729 Annex B (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 C (09/98)	This annex includes one diskette containing version 1.01 of reference C code for floating point implementation of the G.729 8 kbit/s CS-ACELP speech coder
G.729 Annex C+ (02/00)	This annex includes an electronic attachment containing version 2.1 of reference C code for floating point implementation of CS-ACELP at 6.4 kbit/s, 8 kbit/s and 11.8 kbit/s with DTX functionality
G.729 Annex D (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)
G.729 Annex E (02/00)	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 F (02/00)	This annex includes an electronic attachment containing version 1.1 of reference C code and test vectors for fixed point implementation of CS-ACELP at 6.4 kbit/s and 8 kbit/s with DTX functionality

Series	Subject
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
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
G.967.2 (02/99)	This Recommendation includes one diskette containing the SDL process diagrams corresponding to the VB5.2 reference point
H.341 (05/99)	This Recommendation includes one diskette containing the formal descriptions of Annexes A, B, C, D and E for the multimedia management information base
H Supplement 1 (05/99)	This supplement includes one CD-ROM containing the video clip "Irene" to be used as test material for video coding of sign language
J.120 (05/00)	
J.170 (02/02)	
M.3120 (10/01)	
P Supplement 23 (02/98)	This supplement includes 3 CD-ROMs containing the ITU-T coded speech database for 8 kbit/s codec tests
P.50 Appendix I (02/98)	This appendix includes one CD-ROM containing the speech database for telephony applications
P.501 (05/00)	This Recommendation includes one CD-ROM containing test signals for telephony applications
P.561 Appendix III (02/98)	This appendix includes one CD-ROM containing digital speech recordings for INMD devices testing
P.834 (07/02)	

Series**Subject****P.861 (02/98)****Withdrawn (07/01)**

This Recommendation includes one diskette containing test vectors for implementation verification of the PSQM algorithm

P.862 (02/01)**Q.765.1 *bis* (12/99)****Q.784.2 (06/97)**

This Recommendation includes one diskette containing Annex D ISUP'92 ATS for Basic Call in graphical and in machine processable form

Q.784.3 (12/99)**Q.785.2 (03/99)**

This Recommendation includes one CD-ROM containing the ISUP'97 ATS for Supplementary Services in machine processable form and in graphical form

Q.785.2 Amendment 1 (12/00)**Q.921 *bis* (03/93)**

This Recommendation includes 5 diskettes containing postscript files of ATS for testing conformance of basic rate user side equipment to ITU-T Rec. Q.921

Q.933 *bis* (10/95)

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Q.953.5 (12/99)

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This Recommendation includes 3 diskettes containing ITU-T Rec. Q.1228 SDL diagrams in SDT source format and in PDF format

Q.1238.1 (06/00)**Q.1238.2 (06/00)****Q.1238.3 (06/00)****Q.1238.4 (06/00)****Q.1238.5 (06/00)****Q.1238.6 (06/00)****Q.1238.7 (06/00)****Q.1248.1 (07/01)****Q.1248.2 (07/01)****Q.1248.3 (07/01)****Q.1248.4 (07/01)****Q.1248.5 (07/01)****Q.1248.6 (07/01)****Q.1248.7 (07/01)****Q.1600 *bis* (12/99)****Q.1950 (07/01)****Q.2991.1 (12/99)****Q.2991.2 (12/99)**

<i>Series</i>	<i>Subject</i>
T.24 (06/98)	This Recommendation includes 2 CD-ROMs containing the digitized image set
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
T.87 (06/98)	This Recommendation includes one diskette containing the JPEG-LS Lossless and near-lossless image compression reference implementation and a conformance testing image set
T.804 (08/02)	
T.870 (03/02)	
V.56^{ter} (08/96)	This Recommendation includes 2 diskettes containing the data files used for the voiceband duplex modems throughput tests
X.633 Add.1 (09/98)	This annex includes one diskette containing the SDT files of the SDL specifications of the Network Fast Byte protocol
X.634 Add.1 (09/98)	This annex includes one diskette containing the SDT files of the SDL specifications of the Transport Fast Byte protocol

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:

<i>Test chart No. 4, high quality</i>	<i>4530</i>	<i>12 CHF</i>
<i>Test chart No. 4, standard quality</i>	<i>5494</i>	<i>5 CHF</i>

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.

<i>Test chart No. 5</i>	<i>11941</i>	<i>26 CHF</i>
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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.

<i>Test chart No. 6</i>	<i>10465</i>	<i>9 CHF</i>
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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 colour spaces (YUV, CMYK, RGB, CIELAB)
- low contrast gray scale images

<i>Rec. + CD-ROM</i>	<i>E 16670</i>	<i>F 9969</i>	<i>S 9970</i>	<i>154 CHF</i>
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OTHER ITU-T PRODUCTS

ITU Operational Bulletin (2003) (printed versions, electronic version and on-line service)

2003

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

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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
665	Various tones used in national networks (Supplement 2 to ITU-T Recommendation E.180) (Position on 1 April 1998)	20 CHF
669	Five-letter Code Groups for the use of the International Public Telegram Service (According to ITU-T Recommendation F.1 (03/98))	20 CHF
674	Status of Radiocommunications between Amateur Stations of different countries (In accordance with optional provision No. 2731 of the Radio Regulations) (Position on 15 August 1998)	20 CHF
691	Service Restrictions (Recapitulatory list of service restrictions in force relating to telecommunications operation) (Position on 1 May 1999)	20 CHF
693	List of Telex Destination Codes (TDC) and Telex Network Identification Codes (TNIC) (Complement to ITU-T Recommendations F.69 and F.68) (Position on 31 May 1999)	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
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)) (Position on 1 May 2001)	20 CHF

OB No.	Title	Price
741	List of mobile country or geographical area codes (Position on 1 June 2001)	20 CHF
746	List of Data Network Identification Codes (DNIC) (According to ITU-T Recommendation X.121 (10/00)) (Position on 15 August 2001)	20 CHF
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 (Complement to ITU-T Recommendation E.164 (05/1997)) (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
768	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 15 June 2002)	20 CHF
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

* 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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1999

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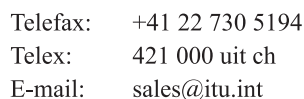
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