# List of ITU-T Recommendations

## Edition 2004-1

### Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>3</td>
</tr>
<tr>
<td>Legend</td>
<td>4</td>
</tr>
<tr>
<td>List of ITU-T Recommendations in force</td>
<td>5</td>
</tr>
<tr>
<td>Transferred ITU-R CMTT Recommendations to ITU-T J-Series</td>
<td>199</td>
</tr>
<tr>
<td>List of ITU-T Handbooks</td>
<td>201</td>
</tr>
<tr>
<td>List of ITU-T Software Packages</td>
<td>203</td>
</tr>
<tr>
<td>List of ITU-T Test Charts</td>
<td>209</td>
</tr>
<tr>
<td>Other ITU-T products</td>
<td>210</td>
</tr>
<tr>
<td>Sales and Distribution</td>
<td>214</td>
</tr>
<tr>
<td>ITU Electronic Bookshop</td>
<td>215</td>
</tr>
<tr>
<td>ITU-T Recommendations Online</td>
<td>216</td>
</tr>
<tr>
<td>General conditions of sale</td>
<td>217</td>
</tr>
<tr>
<td>Order Form</td>
<td>219</td>
</tr>
</tbody>
</table>

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

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 Pre-published and superseded ITU-T Recommendations are now also available via the yearly online subscription service and the Electronic Bookshop.

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

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

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

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

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

Telecommunication Standardization Bureau

* From June 2004.
# LEGEND

<table>
<thead>
<tr>
<th>Recommendation number</th>
<th>Approval date</th>
<th>Recommendation Title</th>
<th>Price in Swiss francs</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>G.707 (03/96)</td>
<td></td>
<td>Network node interface for the synchronous digital hierarchy (SDH)</td>
<td>E 7272, F 7273, S 7274, 55 CHF</td>
<td>English (E), French (F) and Spanish (S) text article numbers</td>
</tr>
<tr>
<td>Number of pages</td>
<td></td>
<td>136pp</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section Title</td>
<td></td>
<td>Coding of analogue signals by pulse code modulation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **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

- **I.254 Multiparty supplementary services**
  
  - **I.254.1 (11/88)** Conference calling (CONF)
    - Individually through the Electronic Bookshop: 20 CHF
  
  - **I.254.2 (08/92)** Three-Party Supplementary Service
    - 10pp  E 2904  F 2902  S 2906  11 CHF

- **G.161 (06/02)** Interaction aspects of signal processing network equipment
  
  To be published...

**Recommendation published in parts**

- **I.254**
  
  **Individual specific title**

**Annex published separately**

**Information on deliverables included when applicable**
# List of ITU-T Recommendations in force

## SERIES A

### Organization of the work of ITU-T

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Pages</th>
<th>E</th>
<th>F</th>
<th>S</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.1 (10/00)</td>
<td>Work Methods for Study Groups of the ITU Telecommunication Standardization Sector (ITU-T)</td>
<td>17</td>
<td>E 20202</td>
<td>F 20203</td>
<td>S 20204</td>
<td>12 CHF</td>
</tr>
<tr>
<td>A.2 (10/00)</td>
<td>Presentation of contributions relative to the study of Questions assigned to the ITU-T</td>
<td>12</td>
<td>E 20205</td>
<td>F 20206</td>
<td>S 20207</td>
<td>9 CHF</td>
</tr>
<tr>
<td>A.3 (10/96)</td>
<td>Withdrawn (10/00)</td>
<td>Elaboration and presentation of texts and development of terminology and other means of expression for Recommendations of the ITU Telecommunication Standardization Sector</td>
<td>Free of charge from the Electronic Bookshop</td>
<td>E 14771</td>
<td>F 14771</td>
<td>S 14771</td>
</tr>
<tr>
<td>A.4 (06/02)</td>
<td>Communication process between ITU-T and Forums and Consortia</td>
<td>14</td>
<td>E 22840</td>
<td>F 22841</td>
<td>S 22842</td>
<td>9 CHF</td>
</tr>
<tr>
<td>A.5 (11/01)</td>
<td>Generic procedures for including references to documents of other organizations in ITU-T Recommendations</td>
<td>8</td>
<td>E 21663</td>
<td>F 21664</td>
<td>S 21665</td>
<td>9 CHF</td>
</tr>
<tr>
<td>A.6 (06/02)</td>
<td>Cooperation and exchange of information between ITU-T and national and regional standards development organizations</td>
<td>14</td>
<td>E 22843</td>
<td>F 22844</td>
<td>S 22845</td>
<td>9 CHF</td>
</tr>
<tr>
<td>A.7 (06/02)</td>
<td>Focus groups: Working methods and procedures</td>
<td>12</td>
<td>E 22846</td>
<td>F 22847</td>
<td>S 22848</td>
<td>9 CHF</td>
</tr>
<tr>
<td>A.8 (10/00)</td>
<td>Alternative approval process for new and revised Recommendations</td>
<td>17</td>
<td>E 20214</td>
<td>F 20215</td>
<td>S 20216</td>
<td>12 CHF</td>
</tr>
<tr>
<td>A.9 (11/03)</td>
<td>Working procedures for the Special Study Group on IMT-2000 and Beyond</td>
<td>13</td>
<td>E 24779</td>
<td>F 24780</td>
<td>S 24781</td>
<td>12 CHF</td>
</tr>
<tr>
<td>A.11 (10/00)</td>
<td>Publication of ITU-T Recommendations and WTSA proceedings</td>
<td>Free of charge from the Electronic Bookshop</td>
<td>E 20220</td>
<td>F 20221</td>
<td>S 20222</td>
<td>9 CHF</td>
</tr>
<tr>
<td>A.12 (10/00)</td>
<td>Identification and layout of ITU-T Recommendations</td>
<td>10</td>
<td>E 20223</td>
<td>F 20224</td>
<td>S 20225</td>
<td>9 CHF</td>
</tr>
<tr>
<td>A.13 (10/00)</td>
<td>Supplements to ITU-T Recommendations</td>
<td>Free of charge from the Electronic Bookshop</td>
<td>E 20226</td>
<td>F 20227</td>
<td>S 20228</td>
<td>9 CHF</td>
</tr>
<tr>
<td>A.30 (03/93)</td>
<td>Withdrawn (10/00)</td>
<td>Major degradation or disruption of service</td>
<td>This Recommendation is also included but not published in F series under alias number F.12</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>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</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Supplements to the Series A Recommendations

<table>
<thead>
<tr>
<th>Suppl.</th>
<th>Title</th>
<th>Pages</th>
<th>E</th>
<th>F</th>
<th>S</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suppl. 3 (01/04)</td>
<td>IETF and ITU-T collaboration guidelines</td>
<td>14</td>
<td>E 23317</td>
<td>F 23318</td>
<td>S 23319</td>
<td>12 CHF</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Document</th>
<th>Title</th>
<th>Pages</th>
<th>Status</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.1 (07/91)</td>
<td>General principles for the lease of international (continental and intercontinental) private telecommunication circuits and networks</td>
<td>8pp</td>
<td>E 2164 F 2163 S 2165</td>
<td>10 CHF</td>
</tr>
<tr>
<td>D.3 (06/92)</td>
<td>Principles for the lease of analogue international circuits for private service</td>
<td>2pp</td>
<td>E 2622 F 2653 S 2684</td>
<td>8 CHF</td>
</tr>
<tr>
<td>D.4 (12/98)</td>
<td>Special conditions for the lease of international (continental and intercontinental) sound- and television-programme circuits for private service</td>
<td>12pp</td>
<td>E 16030 F 16031 S 16032</td>
<td>12 CHF</td>
</tr>
<tr>
<td>D.5 (11/88)</td>
<td>Costs and value of services rendered as factors in the fixing of rates</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>D.7 (01/92)</td>
<td>Concept and implementation of &quot;one-stop shopping&quot; for international private leased telecommunication circuits</td>
<td>3pp</td>
<td>E 2602 F 2631 S 2662</td>
<td>8 CHF</td>
</tr>
<tr>
<td>D.8 (11/88)</td>
<td>Special conditions for the lease of international end-to-end digital circuits for private service</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>D.9 (11/88)</td>
<td>Private leasing of transmitters or receivers</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Document</th>
<th>Title</th>
<th>Pages</th>
<th>Status</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.10 (07/91)</td>
<td>General tariff principles for international public data communication services</td>
<td>3pp</td>
<td>E 2137 F 2136 S 2138</td>
<td>7 CHF</td>
</tr>
<tr>
<td>D.11 (03/91)</td>
<td>Special tariff principles for international packet-switched public data communication services by means of the virtual call facility</td>
<td>3pp</td>
<td>E 1978 F 1977 S 1979</td>
<td>7 CHF</td>
</tr>
<tr>
<td>D.12 (11/88)</td>
<td>Measurement unit for charging by volume in the international packet-switched data communication service</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>D.13 (11/88)</td>
<td>Guiding principles to govern the apportionment of accounting rates in international packet-switched public data communication relations</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>D.15 (11/88)</td>
<td>General charging and accounting principles for non-voice services provided by interworking between public data networks</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>D.20 (11/88)</td>
<td>Special tariff principles for the international circuit-switched public data communication services</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>D.21 (11/88)</td>
<td>Special tariff principles for short transaction transmissions on the international packet-switched public data networks using the fast select facility with restriction</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>D.23 (11/03)</td>
<td>Charging and accounting in the international land mobile telephone service (provided via cellular radio systems)</td>
<td></td>
<td></td>
<td>To be published...</td>
</tr>
<tr>
<td>D.30 (11/88)</td>
<td>Implementation of reverse charging on international public data communication services</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>D.35 (01/92)</td>
<td>General charging principles in the international public message handling services and associated applications</td>
<td>2pp</td>
<td>E 2600 F 2629 S 2660</td>
<td>8 CHF</td>
</tr>
<tr>
<td>D.36 (03/95)</td>
<td>General accounting principles applicable to message handling services and associated applications</td>
<td>12pp</td>
<td>E 6090 F 6089 S 6091</td>
<td>11 CHF</td>
</tr>
</tbody>
</table>
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 telemesage service

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

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

32pp  E 17694  F 17695  S 17696  17 CHF

### D.98 (03/93)
Withdrawn (10/96)
Charging and accounting provisions relating to the transferred account telegraph and telematic services

Deleted after its content became technically out of date

### Charging and accounting in the mobile services

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Description</th>
<th>Individual Price</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>D.90 (03/95)</strong></td>
<td>Charging, billing, international accounting and settlement in the maritime mobile service&lt;br&gt;The date of entry into force of this Recommendation was fixed at the 01 July 1995.</td>
<td><strong>Individually through the Electronic Bookshop:</strong> 20 CHF</td>
</tr>
<tr>
<td><strong>D.91 (07/96)</strong></td>
<td>Transmission in encoded form of maritime telecommunications accounting information&lt;br&gt;&lt;br&gt;<em>TSB circular 125 (29 June 1998) and corresponding covering note detail year 2000 issues regarding the interpretation of transmitted year data.</em></td>
<td>28pp  E 7478  F 7479  S 7480  17 CHF</td>
</tr>
<tr>
<td><strong>D.91 (1996) Amendment 1 (06/98)</strong></td>
<td>Year 2000 issue and its impact on ITU-T D.91 application&lt;br&gt;&lt;br&gt;<em>Published as a covering note</em></td>
<td>1pp  E 7478  F 7479  S 7480  9 CHF</td>
</tr>
<tr>
<td><strong>D.93 (11/03)</strong></td>
<td>Charging and accounting in the international land mobile telephone service (provided via cellular radio systems)</td>
<td>20pp  E 24767  F 24768  S 24769  12 CHF</td>
</tr>
<tr>
<td><strong>D.94 (01/92)</strong></td>
<td>Charging, billing and accounting principles for international aeronautical mobile service, and international aeronautical mobile-satellite service</td>
<td>4pp  E 2601  F 2630  S 2661  8 CHF</td>
</tr>
<tr>
<td><strong>D.95 (10/92)</strong></td>
<td>Charging, billing, accounting and refunds in the data messaging land/maritime mobile-satellite service</td>
<td>8pp  E 3227  F 3226  S 3228  11 CHF</td>
</tr>
<tr>
<td><strong>D.93 (11/03) Amendment 1</strong></td>
<td>Charging and accounting in the international land mobile telephone service</td>
<td>20pp  E 24767  F 24768  S 24769  12 CHF</td>
</tr>
<tr>
<td><strong>D.94 (01/92) Amendment 1</strong></td>
<td>Charging, billing and accounting for conference calls</td>
<td>1pp  E 2621  F 2652  S 2683  8 CHF</td>
</tr>
<tr>
<td><strong>D.115 (10/96)</strong></td>
<td>Tariff principles and accounting for the International Freephone Service (IFS)</td>
<td>8pp  E 9994  F 9995  S 9996  9 CHF</td>
</tr>
</tbody>
</table>
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

8pp E 23157 F 23158 S 23159 9 CHF

D.140 (2002) Amendment 2 (06/03) Revision to Annex E
7pp E 24121 F 24122 S 24123 9 CHF

Charging and accounting in the international telephone service

D.140 (2002) Amendment 3 (11/03)
Revised Annex A – Guideline for the cost elements to be taken into account when determining accounting rates and accounting rate shares for the international telephone service
10pp E 24798 F 24799 S 24800 12 CHF

Charging and accounting for international satellite services

D.140 Supplement 1 (06/02) Updated teledensities and indicative target settlement rates
12pp E 22809 F 22810 S 22811 9 CHF

D.140 Supplement 2 (06/03) Updated teledensities and indicative target settlement rates (1 January 2003)
10pp E 24143 F 24144 S 24145 9 CHF

Charging and accounting in the international telephone service

D.150 (06/99) New system for accounting in international telephony
20pp E 16059 F 16060 S 16061 17 CHF

D.151 (11/88) Old system for accounting in international telephony
A correction was introduced in a Covering note by June 1990
Individually through the Electronic Bookshop: 20 CHF

D.155 (07/96) Guiding principles governing the apportionment of accounting rates in intercontinental telephone relations
8pp E 7409 F 7410 S 7411 9 CHF

Drawing up and exchange of international telephone and telex accounts

D.160 (11/88) Mode of application of the flat-rate price procedure set forth in Recommendation D.67 and Recommendation D.150 for remuneration of facilities made available to the Administrations of other countries
Individually through the Electronic Bookshop: 20 CHF

D.170 (06/98) Monthly telephone and telex accounts
16pp E 13757 F 13758 S 13759 12 CHF

D.171 (11/88) Adjustments and refunds in the international telephone service
Individually through the Electronic Bookshop: 20 CHF

D.172 (11/88) Accounting for calls circulated over international routes for which accounting rates have not been established
Individually through the Electronic Bookshop: 20 CHF

D.173 (11/88) Defaulting subscribers
Individually through the Electronic Bookshop: 20 CHF

D.174 (11/88) Conventional transmission of information necessary for billing and accounting regarding collect and credit card calls
Individually through the Electronic Bookshop: 20 CHF

D.176 (12/97) Transmission in encoded form of telephone reversed charge billing and accounting information
TSB circular 125 (29 June 1998) and corresponding covering note detail year 2000 issues regarding the interpretation of transmitted year data.
12pp E 13895 F 13896 S 13897 12 CHF
### ITU-T D Series

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

*Published as a covering note*

<table>
<thead>
<tr>
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<th>Code E</th>
<th>Code F</th>
<th>Code S</th>
<th>Price</th>
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<tr>
<td>1pp</td>
<td>E 13895</td>
<td>F 13896</td>
<td>S 13897</td>
<td>9 CHF</td>
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</table>

#### 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)

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Code E</th>
<th>Code F</th>
<th>Code S</th>
<th>Price</th>
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<tr>
<td>1pp</td>
<td>E 4201</td>
<td>F 4200</td>
<td>S 4202</td>
<td>8 CHF</td>
</tr>
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</table>

#### International sound- and television-programme transmissions

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

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Code E</th>
<th>Code F</th>
<th>Code S</th>
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<tr>
<td>22pp</td>
<td>E 22800</td>
<td>F 22801</td>
<td>S 22802</td>
<td>17 CHF</td>
</tr>
</tbody>
</table>

#### 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

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Code E</th>
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<tr>
<td>12pp</td>
<td>E 10003</td>
<td>F 10004</td>
<td>S 10005</td>
<td>12 CHF</td>
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#### D.188 (10/92)
General charging and accounting principles applicable to an international videoconferencing service

<table>
<thead>
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<th>Quantity</th>
<th>Code E</th>
<th>Code F</th>
<th>Code S</th>
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<tr>
<td>3pp</td>
<td>E 3207</td>
<td>F 3206</td>
<td>S 3208</td>
<td>8 CHF</td>
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</table>

#### Transmission of monthly international accounting information

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

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Code E</th>
<th>Code F</th>
<th>Code S</th>
<th>Price</th>
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<tbody>
<tr>
<td>14pp</td>
<td>E 22569</td>
<td>F 22570</td>
<td>S 22571</td>
<td>12 CHF</td>
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### Service and privilege telecommunications

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

<table>
<thead>
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<th>Quantity</th>
<th>Code E</th>
<th>Code F</th>
<th>Code S</th>
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<td>E 2624</td>
<td>F 2655</td>
<td>S 2686</td>
<td>8 CHF</td>
</tr>
</tbody>
</table>

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

*Individually through the Electronic Bookshop:* 20 CHF

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

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Code E</th>
<th>Code F</th>
<th>Code S</th>
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<tr>
<td>8pp</td>
<td>E 24764</td>
<td>F 24765</td>
<td>S 24766</td>
<td>9 CHF</td>
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</table>

### Settlement of international telecommunication balances of accounts

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

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Code E</th>
<th>Code F</th>
<th>Code S</th>
<th>Price</th>
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<tr>
<td>2pp</td>
<td>E 2620</td>
<td>F 2651</td>
<td>S 2682</td>
<td>8 CHF</td>
</tr>
</tbody>
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#### D.197 (07/91)
Notification of change of address(es) for accounting and settlement purposes

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Code E</th>
<th>Code F</th>
<th>Code S</th>
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<tr>
<td>3pp</td>
<td>E 2119</td>
<td>F 2118</td>
<td>S 2120</td>
<td>7 CHF</td>
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</table>

### Terms and definitions

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

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Code E</th>
<th>Code F</th>
<th>Code S</th>
<th>Price</th>
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<tr>
<td>8pp</td>
<td>E 23048</td>
<td>F 23049</td>
<td>S 23050</td>
<td>9 CHF</td>
</tr>
</tbody>
</table>

### 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)

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Code E</th>
<th>Code F</th>
<th>Code S</th>
<th>Price</th>
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<tr>
<td>3pp</td>
<td>E 5647</td>
<td>F 5646</td>
<td>S 5648</td>
<td>8 CHF</td>
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</tbody>
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#### 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

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Code E</th>
<th>Code F</th>
<th>Code S</th>
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<tr>
<td>8pp</td>
<td>E 16027</td>
<td>F 16028</td>
<td>S 16029</td>
<td>9 CHF</td>
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</tbody>
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#### D.212 (10/96)
Charging and accounting principles for the use of Signalling System No. 7

<table>
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<th>Code E</th>
<th>Code F</th>
<th>Code S</th>
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<tr>
<td>8pp</td>
<td>E 9962</td>
<td>F 9963</td>
<td>S 9964</td>
<td>9 CHF</td>
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<tr>
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<td>Pages</td>
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<tr>
<td>D.220</td>
<td>Charging and accounting principles to be applied to international</td>
<td>2pp</td>
<td>E 2003</td>
<td>F 2002</td>
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<tr>
<td></td>
<td>circuit-mode demand bearer services provided over the integrated services</td>
<td></td>
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<td></td>
<td>digital network (ISDN)</td>
<td></td>
<td></td>
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<tr>
<td>D.224</td>
<td>Charging and accounting principles for ATM/B-ISDN</td>
<td>24pp</td>
<td>E 17776</td>
<td>F 17777</td>
</tr>
<tr>
<td>D.225</td>
<td>Charging and accounting principles to be applied to frame relay</td>
<td>8pp</td>
<td>E 13703</td>
<td>F 13704</td>
</tr>
<tr>
<td></td>
<td>data transmission service</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>D.230</td>
<td>General charging and accounting principles for supplementary services</td>
<td>2pp</td>
<td>E 5979</td>
<td>F 5978</td>
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<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
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<tr>
<td>D.231</td>
<td>Charging and accounting principles relating to the User-to-User</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td>Information (UUI) supplementary service</td>
<td></td>
<td></td>
<td></td>
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<td>Individually through the Electronic Bookshop: 20 CHF</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>D.232</td>
<td>Specific tariff and accounting principles applicable to ISDN</td>
<td>12pp</td>
<td>E 11632</td>
<td>F 11633</td>
</tr>
<tr>
<td></td>
<td>supplementary services</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D.233</td>
<td>Charging and accounting principles to be applied to the reversed</td>
<td>8pp</td>
<td>E 7415</td>
<td>F 7416</td>
</tr>
<tr>
<td></td>
<td>charge supplementary service</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D.240</td>
<td>Charging and accounting principles for teleservices supported by the</td>
<td>2pp</td>
<td>E 2015</td>
<td>F 2014</td>
</tr>
<tr>
<td></td>
<td>ISDN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D.250</td>
<td>General charging and accounting principles for non-voice services</td>
<td>2pp</td>
<td>E 2125</td>
<td>F 2124</td>
</tr>
<tr>
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<td>provided by interworking between the ISDN and existing public data</td>
<td></td>
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<td></td>
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<td>D.251</td>
<td>General charging and accounting principles for the basic telephone</td>
<td></td>
<td></td>
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<td>service provided over the ISDN or by interconnection between the</td>
<td></td>
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<tr>
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<td>ISDN and the public switched telephone network</td>
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<tr>
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<td>Individually through the Electronic Bookshop: 20 CHF</td>
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<td></td>
</tr>
<tr>
<td>D.260</td>
<td>Charging and accounting capabilities to be applied on the ISDN</td>
<td>3pp</td>
<td>E 2027</td>
<td>F 2026</td>
</tr>
<tr>
<td>D.280</td>
<td>Principles for charging and billing, accounting and</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>reimbursements for universal personal telecommunication</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D.285</td>
<td>Guiding principles for charging and accounting for intelligent</td>
<td>12pp</td>
<td>E 7481</td>
<td>F 7482</td>
</tr>
<tr>
<td></td>
<td>network supported services</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>D.286</td>
<td>Charging and accounting principles for the global virtual network</td>
<td>8pp</td>
<td>E 7484</td>
<td>F 7485</td>
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**Recommendations for regional application**

<table>
<thead>
<tr>
<th>Document</th>
<th>Title</th>
<th>Pages</th>
<th>E</th>
<th>F</th>
<th>S</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.300R</td>
<td>Determination of accounting rate shares in telephone relations</td>
<td>10pp</td>
<td>E 6102</td>
<td>F 6101</td>
<td>S 6103</td>
<td>11 CHF</td>
</tr>
<tr>
<td></td>
<td>between countries in Europe and the Mediterranean Basin</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
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<tr>
<td>D.301R</td>
<td>Determination of accounting rate shares and collection charges in</td>
<td>11pp</td>
<td>E 6150</td>
<td>F 6149</td>
<td>S 6151</td>
<td>11 CHF</td>
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<tr>
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<td></td>
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<td>D.302R</td>
<td>Determination of the accounting rate shares and collection charges</td>
<td>3pp</td>
<td>E 5976</td>
<td>F 5975</td>
<td>S 5977</td>
<td>8 CHF</td>
</tr>
<tr>
<td></td>
<td>for the international public telegram service applicable to</td>
<td></td>
<td></td>
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</table>
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:

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

2pp E 2122 F 2121 S 2123 7 CHF

D.307R (03/95) Remuneration of digital systems and channels used in telecommunication relations between the countries of Europe and the Mediterranean Basin

Covering note, August 1998: Applicability of 1984 values of flat-rate remuneration

4pp E 6129 F 6128 S 6130 8 CHF

D.310R (03/95) Determination of rentals for the lease of international programme (sound- and television-) circuits and associated control circuits for private service in relations between countries in Europe and the Mediterranean Basin

Covering note, August 1998: Applicability of 1984 values of the annual rental

2pp E 5984 F 5983 S 5985 8 CHF

D.390R (11/88) Withdrawn (03/95)
Accounting system in the international automatic telephone service

Deleted after its content became technically out of date

Individually through the Electronic Bookshop:

Recommendations applicable in Latin America

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

24pp E 17956 F 17957 S 17958 17 CHF

D.401R (11/88) Withdrawn (09/98)
Accounting rates applicable to telex relations between countries in Latin America

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

Individually through the Electronic Bookshop: 20 CHF

Recommendations applicable in Asia and Oceania

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

16pp E 15428 F 15429 S 15430 12 CHF

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

2pp E 4668 F 4667 S 4669 8 CHF

Recommendations applicable to the African Region

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

22pp E 19630 F 19631 S 19632 17 CHF

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

8pp E 5163 F 5221 S 5256 11 CHF

Recommendations applicable in Asia and Oceania

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

8pp E 23045 F 23046 S 23047 9 CHF
D.603R (12/02)  Minimizing collection charges on inter-African calls
8pp  E 23057  F 23058  S 23059  9 CHF

Recommendations applicable to the African Region

D.606R (11/88)  Preferential rates in telecommunication relations between countries in Africa
Individually through the Electronic Bookshop:  20 CHF

Supplements to the Series D Recommendations

Suppl. 1 (11/88)  Cost and tariff study method

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

Suppl. 3 (03/93)  Handbook on the methodology for determining costs and establishing national tariffs
44pp  E 7508  F 7509  S 7510  22 CHF

SERIES E
Overall network operation, telephone service, service operation and human factors

International operation

Definitions

E.100 (11/88)  Definitions of terms used in international telephone operation
Individually through the Electronic Bookshop:  20 CHF

General provisions concerning Administrations

E.104 (02/95)  International telephone directory assistance service and public access
2pp  E 5858  F 5857  S 5859  8 CHF

E.105 (08/92)  International telephone service
6pp  E 3010  F 3003  S 3017  8 CHF

E.106 (10/03)  International Emergency Preference Scheme for disaster relief operations (IEPS)
16pp  E 24558  F 24559  S 24560  12 CHF

E.109 (02/95)  International billed number screening procedures for collect and third-party calling
4pp  E 5861  F 5860  S 5862  8 CHF

E.110 (11/88)  Organization of the international telephone network
Individually through the Electronic Bookshop:  20 CHF

E.111 (11/88)  Extension of international telephone services
Individually through the Electronic Bookshop:  20 CHF

E.112 (11/88)  Arrangements to be made for controlling the telephone services between two countries
Individually through the Electronic Bookshop:  20 CHF

E.113 (05/97)  Validation procedures for the international telecommunications charge card service
12pp  E 11994  F 11995  S 11996  12 CHF

E.114 (11/88)  Supply of lists of subscribers (directories and other means)
Individually through the Electronic Bookshop:  20 CHF

E.115 (02/95)  Computerized directory assistance
22pp  E 5995  F 5994  S 5996  15 CHF

E.116 (05/97)  International telecommunication charge card service
16pp  E 11883  F 11884  S 11885  12 CHF

E.117 (06/94)  Terminal devices used in connection with the public telephone service (other than telephones)
2pp  E 5185  F 5235  S 5270  8 CHF

E.118 (02/01)  The international telecommunication charge card
16pp  E 20927  F 20928  S 20929  12 CHF

General provisions concerning users

E.120 (11/88)  Instructions for users of the international telephone service
Individually through the Electronic Bookshop:  20 CHF

E.121 (07/96)  Pictograms, symbols and icons to assist users of the telephone service
24pp  E 7391  F 7392  S 7393  17 CHF

E.122 (11/88)  Measures to reduce customer difficulties in the international telephone service
Individually through the Electronic Bookshop:  20 CHF
E.123 (02/01) Notation for national and international telephone numbers, e-mail addresses and Web addresses
14pp E 20897 F 20898 S 20899 12 CHF

E.124 (11/88) Discouragement of frivolous international calling to unassigned or vacant numbers answered by recorded announcements without charge
Individually through the Electronic Bookshop: 20 CHF

E.125 (10/84) Inquiries among users of the international telephone service
Electronic Bookshop only
20 CHF

E.126 (11/88) Harmonization of the general information pages of the telephone directories published by administrations
Individually through the Electronic Bookshop: 20 CHF

E.127 (11/88) Pages in the telephone directory intended for foreign visitors
Individually through the Electronic Bookshop: 20 CHF

E.128 (11/88) Leaflet to be distributed to foreign visitors
Individually through the Electronic Bookshop: 20 CHF

General provisions concerning Administrations

E.129 (09/02) Presentation of national numbering plans
20pp E 22915 F 22916 S 22917 12 CHF

General provisions concerning users

E.130 (11/88) Choice of the most useful and desirable supplementary telephone services
Individually through the Electronic Bookshop: 20 CHF

E.131 (11/88) Subscriber control procedures for supplementary telephone services
Individually through the Electronic Bookshop: 20 CHF

E.132 (11/88) Standardization of elements of control procedures for supplementary telephone services
Individually through the Electronic Bookshop: 20 CHF

E.133 (11/88) Operating procedures for cardphones
Individually through the Electronic Bookshop: 20 CHF

E.134 (03/93) Human factors aspects of public terminals: generic operating procedures
4pp E 3935 F 3934 S 3936 8 CHF

E.135 (10/95) Human factors aspects of public telecommunication terminals for people with disabilities
12pp E 6452 F 6453 S 6454 11 CHF

E.136 (05/97) Specification of a tactile identifier for use with telecommunication cards
8pp E 11982 F 11983 S 11984 9 CHF

E.137 (05/97) User instructions for payphones
16pp E 12028 F 12029 S 12030 12 CHF

General provisions concerning Administrations

E.138 (06/02) Human factors aspects of public telephones to improve their usability for older people
28pp E 22697 F 22698 S 22699 17 CHF

E.138 Erratum 1 (02/03)

Operation of international telephone services

E.140 (08/92) Operator-assisted telephone service
4pp E 3012 F 3005 S 3019 8 CHF

E.141 (03/93) Withdrawn (12/02)
Instructions for operators on the operator-assisted international telephone service
Issued as an independent instructions handbook. This Recommendation was deleted on December 20th, 2002 since it was no longer of interest
E 3382 F 3381 S 3383 23 CHF

E.148 (11/88) Routing of traffic by automatic transit exchanges
Individually through the Electronic Bookshop: 20 CHF

E.149 (11/88) Presentation of routing data
Individually through the Electronic Bookshop: 20 CHF

E.150 (11/88) Withdrawn (02/96)
Publication of a "list of international telephone routes"
Deleted after ITU-T decision not to publish the list due to the impossibility of updating it in the existing international environment
Individually through the Electronic Bookshop:

E.151 (08/92) Telephone conference calls
2pp E 3013 F 3006 S 3020 8 CHF
E.152 (02/01) International freephone service
36pp E 21209 F 21210 S 21211 17 CHF

E.153 (10/96) Home country direct
8pp E 10836 F 10837 S 10838 9 CHF

E.154 (03/98) International shared cost service
28pp E 13475 F 13476 S 13477 17 CHF

E.155 (03/98) International premium rate service
25pp E 13456 F 13457 S 13548 17 CHF

E.155 (1998) Amendment 1 (02/01) The international telecommunication charge card
6pp E 20879 F 20880 S 20881 9 CHF

Numbering plan of the international telephone service

E.160 (03/93) Withdrawn (05/97)
Definitions relating to national and international numbering plans
The content of this Recommendation is now covered by ITU-T E.164 (1997)
5pp E 4563 F 4562 S 4564 8 CHF

E.161 (02/01) Arrangement of digits, letters and symbols on telephones and other devices that can be used for gaining access to a telephone network
14pp E 20885 F 20886 S 20887 12 CHF

E.162 (04/95) Withdrawn (08/03)
Capability for seven digit analysis of international E.164 numbers at time T
ITU-T Rec. E.162 was deleted on August 13, 2003 since the increased digit analysis from 6 to 7-digits at Time 'T' that it contains has been incorporated into E.164
1pp E 5989 F 5988 S 5990 8 CHF

E.163 (11/88) Withdrawn (08/91)
Numbering plan for the international telephone service
The content of this Recommendation was incorporated in ITU-T E.164 (1991)
Individually through the Electronic Bookshop:

E.164 (05/97) The international public telecommunication numbering plan
Replaces former E.163 numbering plan
24pp E 11877 F 11878 S 11879 17 CHF

E.164 Supplement 1 (03/98) Alternatives for carrier selection and network identification
16pp E 13513 F 13514 S 13515 12 CHF

E.164 Supplement 2 (11/98) Number Portability
24pp E 15318 F 15319 S 15320 17 CHF

16       ITU-T 05/04 – Series E

Numbering plan and dialling procedures in the international service

E.164 Supplement 3 (05/02) Supplement 3:
Operational and administrative issues associated with national implementations of the ENUM functions
30pp E 22932 F 22933 S 22934 17 CHF

E.164 Supplement 4 (05/03) Operational and administrative issues associated with the implementation of ENUM for non-geographic country codes
17pp E 24448 F 24449 S 24450 12 CHF

Numbering plan of the international telephone service

E.164.1 (10/03) Criteria and procedures for the reservation, assignment and reclamation of E.164 country codes and associated identification codes (ICs)
23pp E 24633 F 24634 S 24635 17 CHF

E.164.2 (02/01) E.164 numbering resources for trials
10pp E 20900 F 20901 S 20902 9 CHF

E.164.3 (09/01) Principles, criteria and procedures for the assignment and reclamation of E.164 country codes and associated identification codes for groups of countries
13pp E 23185 F 23186 S 23187 12 CHF

E.165 (11/88) Timetable for coordinated implementation of the full capability of the numbering plan for the ISDN era (Recommendation E.164)
This Recommendation is also published under alias number Q.11 ter
Individually through the Electronic Bookshop: 20 CHF

E.165.1 (10/96) Use of escape code "0" within the E.164 numbering plan during the transition period to implementation of NPI mechanism
8pp E 10006 F 10007 S 10008 9 CHF

Public data networks

E.166/X.122 (03/98) Numbering plan interworking for the E.164 and X.121 numbering plans
This Recommendation is published with the double number E.166 and X.122
44pp E 13314 F 10010 S 10011 22 CHF
E.167 (11/88)  ISDN network identification codes

Individually through the Electronic Bookshop:  20 CHF

Numbering plan and dialling procedures in the international service

E.168 (05/02)  Application of E.164 numbering plan for UPT
18pp  E 22426  F 22427  S 22428  12 CHF

E.168.1 (05/02)  Assignment procedures for universal personal telecommunications (UPT) numbers in the provisioning of the UPT service
20pp  E 22426  F 22427  S 22428  12 CHF

Numbering plan of the international telephone service

E.169 (05/02)  Application of Recommendation E.164 numbering plan for universal international numbers for international telecommunications services using country codes for global services
14pp  E 23079  F 23080  S 23081  12 CHF

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

This version is a revision of former Rec. E.169 (11/1998)
30pp  E 21715  F 21716  S 21717  17 CHF

E.169.2 (10/00)  Application of Recommendation E.164 numbering plan for universal international premium rate numbers for the international premium rate service
24pp  E 18897  F 18898  S 18899  17 CHF

E.169.3 (10/00)  Application of Recommendation E.164 numbering plan for universal international shared cost numbers for international shared cost service
24pp  E 18771  F 18772  S 18773  17 CHF

International routing plan

E.170 (10/92)  Traffic routing
8pp  E 3277  F 3276  S 3278  8 CHF

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

Individually through the Electronic Bookshop:  20 CHF

E.172 (10/92)  ISDN routing plan

18pp  E 3354  F 3353  S 3355  15 CHF

E.173 (08/91)  Routing plan for interconnection between public land mobile networks and fixed terminal networks
12pp  E 2339  F 2317  S 2361  10 CHF

E.174 (04/95)  Routing principles and guidance for Universal Personal Telecommunications (UPT)
9pp  E 6162  F 6161  S 6163  11 CHF

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

Individually through the Electronic Bookshop:  20 CHF

E.177 (10/96)  B-ISDN routing
16pp  E 10012  F 10013  S 10014  12 CHF

Tones in national signalling systems

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

This Recommendation is published with the double number E.180 and Q.35
16pp  E 13110  F 13111  S 13112  12 CHF

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

Individually through the Electronic Bookshop:  20 CHF

E.182 (03/98)  Application of tones and recorded announcements in telephone services
12pp  E 13244  F 13246  S 13248  12 CHF

E.183 (03/98)  Guiding principles for telephone announcements
8pp  E 13250  F 13253  S 13255  9 CHF

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

Individually through the Electronic Bookshop:  20 CHF

Numbering plan of the international telephone service

E.190 (05/97)  Principles and responsibilities for the management, assignment and reclamation of E-series international numbering resources
12pp  E 11785  F 11786  S 11787  12 CHF

E.191 (03/00)  B-ISDN addressing
22pp  E 17930  F 17931  S 17932  17 CHF

E.191 (2000) Corrigendum 1 (02/02)
Criteria and procedures for the allocation of the ITU-T International Network Designator addresses

14pp E 22154 F 22155 S 22156 12 CHF

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

E.192 (03/00) E.164 country code expansion

16pp E 18191 F 18194 S 18193 12 CHF

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

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

12pp E 18736 F 18737 S 18738 12 CHF

Maritime mobile service and public land mobile service

E.200 (07/96) Withdrawn (10/96) Operational provisions for the maritime mobile service

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

E.201 (08/91) Withdrawn (09/02) Reference recommendation for mobile services

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

9pp E 2335 F 2313 S 2357 10 CHF

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

6pp E 3268 F 3267 S 3269 8 CHF

E.210 (11/88) Ship station identification for VHF/UHF and maritime mobile-satellite services

This Recommendation is also published under alias number F.120. For more details, see F.120

Individually through the Electronic Bookshop: 20 CHF

E.211 (11/88) Withdrawn (02/02) Selection procedures for VHF/UHF maritime mobile services

Deleted because E.211 has no service function

Individually through the Electronic Bookshop: 20 CHF

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

8pp E 14489 F 14490 S 14491 9 CHF

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

11pp E 24158 F 24159 S 24160 9 CHF

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

Individually through the Electronic Bookshop: 20 CHF

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

Individually through the Electronic Bookshop: 20 CHF

E.215 (05/97) Withdrawn (12/02) Telephone/ISDN numbering plan for the mobile-satellite services of Inmarsat

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

20pp E 11828 F 11829 S 11830 17 CHF

E.216 (03/93) Withdrawn (10/96) Selection procedures for the INMARSAT 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

34pp E 23088 F 23089 S 23090 17 CHF

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

8pp E 7136 F 7137 S 7138 9 CHF

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

Charging in the international telephone service

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

1pp E 3014 F 3007 S 3021 8 CHF

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

This Recommendation is published under alias number D.103
E.232 (11/88) Charging for calls to subscriber’s station connected either to the absent subscriber’s service or to a device substituting a subscriber in his absence

This Recommendation is also published under alias number D.104. For more details, see D.104

Individually through the Electronic Bookshop: 20 CHF

E.251 (11/88) Withdrawn (02/98)
Old system for accounting in international telephony

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

E.252 (11/88) Withdrawn ()
Mode of application of the flat-rate price procedure set forth in Recommendations D.67 and D.150 for remuneration of facilities made available to the Administrations of other countries

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

Measuring and recording call durations for accounting purposes

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

Individually through the Electronic Bookshop: 20 CHF

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

Individually through the Electronic Bookshop: 20 CHF

E.270 (03/95) Withdrawn (02/98)
Monthly telephone and telex accounts

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

E.275 (09/95) Withdrawn (02/98)
Exchange of international traffic accounting data between Administrations using electronic data interchange (EDI) techniques

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

E.276 (12/97) Withdrawn (02/98)
Transmission in encoded form of telephone reversed charge billing and accounting information

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

Individually through the Electronic Bookshop:

E.277 (11/88) Withdrawn (02/98)
Conventional transmission of information necessary for the collection of charges and the accounting regarding collect and credit card calls

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

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

E.300 Series Supplement 1 (11/88) List of possible supplementary telephone services which may be offered to subscribers

Individually through the Electronic Bookshop: 20 CHF

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

34pp E 5529 F 5528 S 5530 17 CHF

E.300 Series Supplement 3 (11/88) North american precise audible tone plan

Individually through the Electronic Bookshop: 20 CHF

E.300 Series Supplement 4 (11/88) Treatment of calls considered as terminating abnormally

Individually through the Electronic Bookshop: 20 CHF

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

12pp E 21894 F 21894 S 21894 9 CHF

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

Individually through the Electronic Bookshop: 20 CHF

E.300 Series Supplement 7 (11/88) Description of INMARSAT existing and planned systems

Individually through the Electronic Bookshop: 20 CHF
Utilization of the international telephone network for non-telephony applications

General

E.300 (11/88) Special uses of circuits normally employed for automatic telephone traffic

Individually through the Electronic Bookshop: 20 CHF

E.301 (03/93) Impact of non-voice applications on the telephone network

15pp E 5098 F 5097 S 5099 11 CHF

Phototelegraphy

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

Individually through the Electronic Bookshop: 20 CHF

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

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

ISDN provisions concerning users

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

Individually through the Electronic Bookshop: 20 CHF

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

6pp E 2341 F 2319 S 2363 7 CHF

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

This Recommendation is published under alias number Z.323

International routing plan

E.350 (03/00) Dynamic Routing Interworking

48pp E 18048 F 18049 S 18050 22 CHF

E.351 (03/00) Routing of multimedia connections across TDM-, ATM-, and IP-based networks

52pp E 18266 F 18267 S 18268 29 CHF

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

20pp E 18125 F 18126 S 18127 17 CHF

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

16pp E 20924 F 20925 S 20926 12 CHF

E.360.1 (05/02) Framework for QoS routing and related traffic engineering methods for IP-, ATM-, and TDM-based multiservice networks

50pp E 23114 F 23115 S 23116 22 CHF

E.360.2 (05/02) QoS routing & related traffic engineering methods – Call routing and connection routing methods

38pp E 23095 F 23096 S 23097 22 CHF

E.360.3 (05/02) QoS routing and related traffic engineering methods – QoS resource management methods

38pp E 23067 F 23068 S 23069 22 CHF

E.360.4 (05/02) QoS routing and related traffic engineering methods – routing table management methods & requirements

32pp E 23021 F 23022 S 23023 17 CHF

E.360.5 (05/02) QoS routing and related traffic engineering methods – Transport routing methods

29pp E 23131 F 23132 S 23133 17 CHF

E.360.6 (05/02) QoS routing and related traffic engineering methods – capacity management methods

38pp E 23101 F 23102 S 23103 17 CHF

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

20pp E 22966 F 22967 S 22968 12 CHF

E.361 (05/03) QoS routing support for interworking of QoS service classes across routing technologies

23pp E 23984 F 23985 S 23986 17 CHF
ISDN provisions concerning users

E.370 (02/01) Service principles when public circuit-switched international telecommunication networks interwork with IP-based networks
16pp E 20602 F 20603 S 20604 12 CHF

Network management

International service statistics

E.401 (11/88) Statistics for the international telephone service (number of circuits in operation and volume of traffic)
Individually through the Electronic Bookshop: 20 CHF

E.410 (03/98) International network management – General information
12pp E 13256 F 13257 S 13258 12 CHF

E.411 (03/00) International network management – Operational guidance
28pp E 18195 F 18196 S 18197 17 CHF

E.411 (2000) Amendment 1 (03/01)
8pp E 20535 F 20536 S 20537 9 CHF

E.412 (01/03) Network management controls
30pp E 23595 F 23596 S 23597 17 CHF

E.413 (11/88) International network management – Planning
Individually through the Electronic Bookshop: 20 CHF

E.414 (11/88) International network management – Organization
Individually through the Electronic Bookshop: 20 CHF

E.415 (08/91) International network management guidance for common channel signalling system No. 7
7pp E 2336 F 2314 S 2358 10 CHF

E.416 (03/00) Network Management Principles and Functions for B-ISDN Traffic
16pp E 18109 F 18110 S 18111 12 CHF

E.417 (02/01) Framework for the network management of IP-Based networks
20pp E 20888 F 20889 S 20890 17 CHF

E.418 (05/03) Framework for network management of IMT-2000 networks
13pp E 24386 F 24387 S 24388 12 CHF

Checking the quality of the international telephone service

E.420 (11/88) Checking the quality of the international telephone service – General considerations
Individually through the Electronic Bookshop: 20 CHF

E.421 (11/88) Service quality observations on a statistical basis
Individually through the Electronic Bookshop: 20 CHF

E.422 (02/96) Observations on international outgoing telephone calls for quality of service
16pp E 7230 F 7232 S 7235 12 CHF

E.423 (11/88) Observations on traffic set up by operators
Individually through the Electronic Bookshop: 20 CHF

E.424 (10/92) Test calls
3pp E 3280 F 3279 S 3281 8 CHF

E.425 (03/02) Internal automatic observations
20pp E 22034 F 22035 S 22036 12 CHF

E.426 (10/92) General guide to the percentage of effective attempts which should be observed for international telephone calls
1pp E 3274 F 3273 S 3275 8 CHF

E.427 (11/88) Collection and statistical analysis of special quality of service observation data for measurements of customer difficulties in the international automatic service
Individually through the Electronic Bookshop: 20 CHF

E.428 (10/92) Connection retention
2pp E 3252 F 3251 S 3253 8 CHF

E.430 (06/92) Quality of service framework
3pp E 2707 F 2706 S 2708 8 CHF

E.431 (06/92) Service quality assessment for connection set-up and release delays
3pp E 2801 F 2763 S 2836 8 CHF

E.432 (06/92) Connection quality
5pp E 2802 F 2764 S 2837 8 CHF
E.433 (06/92)  Billing integrity
3pp  E 2803  F 2765  S 2838  8 CHF

E.434 (06/92)  Subscriber-to-subscriber measurement of the public switched telephone network
8pp  E 2814  F 2779  S 2849  11 CHF

E.436 (03/98)  Customer Affecting Incidents and blocking Defects Per Million
8pp  E 12970  F 12971  S 12972  9 CHF

E.437 (05/99)  Comparative metrics for network performance management
12pp  E 15974  F 15975  S 15976  12 CHF

E.438 (03/00)  Performance parameters and measurement methods to assess N-ISDN 64 kbit/s circuit switched bearer service UDI in operation
12pp  E 18643  F 18644  S 18645  12 CHF

E.439 (03/00)  Test call measurement to assess N-ISDN 64 kbit/s circuit-switched bearer service UDI in operation
20pp  E 18598  F 18599  S 18600  17 CHF

E.440 (02/96)  Customer satisfaction point
4pp  E 7030  F 7031  S 7032  9 CHF

E.450 (03/98)  Facsimile quality of service on public networks – General aspects
8pp  E 13113  F 13114  S 13115  9 CHF

E.451 (02/01)  Facsimile call cut-off performance
8pp  E 20921  F 20922  S 20923  9 CHF

E.452 (03/93)  Facsimile modem speed reductions and transaction time
3pp  E 4156  F 4155  S 4157  8 CHF

E.453 (08/94)  Facsimile image quality as corrupted by transmission-induced scan line errors
5pp  E 5653  F 5652  S 5654  8 CHF

E.454 (10/96)  Transmission performance metrics based on Error Correction Mode (ECM) facsimile
12pp  E 9914  F 9915  S 9916  12 CHF

E.456 (03/98)  Test transaction for facsimile transmission performance
8pp  E 13259  F 13260  S 13261  9 CHF

E.457 (02/96)  Facsimile measurement methodologies
8pp  E 7203  F 7204  S 7205  9 CHF

E.458 (02/96)  Figure of merit for facsimile transmission performance
4pp  E 7033  F 7034  S 7035  9 CHF

E.459 (03/98)  Measurements and metrics for characterizing facsimile transmission performance using non-intrusive techniques
16pp  E 13009  F 13010  S 13011  12 CHF

E.460 (03/00)  Measurements and metrics for monitoring the performance of V.34 Group 3 facsimile
12pp  E 18198  F 18199  S 18200  12 CHF

Traffic engineering

Measurement and recording of traffic

E.490 (06/92)  Traffic measurement and evaluation – General survey
5pp  E 2804  F 2766  S 2839  8 CHF

E.490.1 (01/03)  Overview of Recommendations on traffic engineering
26pp  E 23536  F 23537  S 23538  17 CHF

E.491 (05/97)  Traffic measurement by destination
8pp  E 11799  F 11800  S 11801  9 CHF

E.492 (02/96)  Traffic reference period
8pp  E 7108  F 7109  S 7110  9 CHF

E.493 (02/96)  Grade of service (GOS) monitoring
16pp  E 7308  F 7309  S 7310  12 CHF

E.500 (11/98)  Traffic intensity measurement principles
16pp  E 14598  F 14599  S 14600  12 CHF

E.501 (05/97)  Estimation of traffic offered in the network
28pp  E 11973  F 11974  S 11975  17 CHF

E.502 (02/01)  Traffic measurement requirements for digital telecommunication exchanges
34pp  E 21411  F 21412  S 21413  17 CHF

E.503 (06/92)  Traffic measurement data analysis
6pp  E 2813  F 2775  S 2848  8 CHF

E.504 (11/88)  Traffic measurement administration

Individually through the Electronic Bookshop: 20 CHF
E.505 (06/92)  Measurements of the performance of common channel signalling network
13pp  E 2815  F 2780  S 2850  11 CHF

Forecasting of traffic

E.506 (06/92)  Forecasting international traffic
19pp  E 2818  F 2783  S 2853  15 CHF

E.507 (11/88)  Models for forecasting international traffic
Individually through the Electronic Bookshop:  20 CHF

E.508 (10/92)  Forecasting new telecommunication services
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  9 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

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Individually through the Electronic Bookshop:  20 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

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Individually through the Electronic Bookshop:  20 CHF

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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
<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>E.681 (10/01)</td>
<td>Traffic engineering methods for IP access networks based on hybrid fiber/coax system</td>
<td>18pp</td>
<td>12 CHF</td>
</tr>
<tr>
<td>E.700 (10/92)</td>
<td>Framework of the E.700-Series Recommendations</td>
<td>1pp</td>
<td>8 CHF</td>
</tr>
<tr>
<td>E.701 (10/92)</td>
<td>Reference connections for traffic engineering</td>
<td>2pp</td>
<td>8 CHF</td>
</tr>
<tr>
<td>E.710 (10/92)</td>
<td>ISDN traffic modelling overview</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E.711 (10/92)</td>
<td>User demand modelling</td>
<td>9pp</td>
<td>11 CHF</td>
</tr>
<tr>
<td>E.712 (10/92)</td>
<td>User plane traffic modelling</td>
<td>14pp</td>
<td>11 CHF</td>
</tr>
<tr>
<td>E.713 (10/92)</td>
<td>Control plane traffic modelling</td>
<td>8pp</td>
<td>8 CHF</td>
</tr>
<tr>
<td>E.716 (10/96)</td>
<td>User demand modelling in Broadband-ISDN</td>
<td>16pp</td>
<td>12 CHF</td>
</tr>
<tr>
<td>E.720 (11/88)</td>
<td>ISDN grade of service concept</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E.721 (05/99)</td>
<td>Network grade of service parameters and target values for circuit-switched services in the evolving ISDN</td>
<td>12pp</td>
<td>12 CHF</td>
</tr>
<tr>
<td>E.723 (06/92)</td>
<td>Grade-of-service parameters for Signalling System No. 7 networks</td>
<td>5pp</td>
<td>8 CHF</td>
</tr>
<tr>
<td>E.724 (02/96)</td>
<td>GOS parameters and target GOS objectives for IN services</td>
<td>12pp</td>
<td>12 CHF</td>
</tr>
<tr>
<td>E.726 (03/00)</td>
<td>Network grade of service parameters and target values for B-ISDN</td>
<td>20pp</td>
<td>17 CHF</td>
</tr>
<tr>
<td>E.728 (03/98)</td>
<td>Grade-of-service parameters for B-ISDN signalling</td>
<td>12pp</td>
<td>12 CHF</td>
</tr>
<tr>
<td>E.730 (10/92)</td>
<td>Withdrawn (10/96) ISDN dimensioning methods overview</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E.731 (10/92)</td>
<td>Methods for dimensioning resources operating in circuit-switched mode</td>
<td>10pp</td>
<td>9 CHF</td>
</tr>
<tr>
<td>E.733 (11/98)</td>
<td>Methods for dimensioning resources in Signalling System No. 7 networks</td>
<td>20pp</td>
<td>17 CHF</td>
</tr>
<tr>
<td>E.734 (10/96)</td>
<td>Methods for allocating and dimensioning Intelligent Network (IN) resources</td>
<td>28pp</td>
<td>17 CHF</td>
</tr>
<tr>
<td>E.735 (05/97)</td>
<td>Framework for traffic control and dimensioning in B-ISDN</td>
<td>32pp</td>
<td>17 CHF</td>
</tr>
<tr>
<td>E.736 (03/00)</td>
<td>Methods for cell level traffic control in B-ISDN</td>
<td>36pp</td>
<td>22 CHF</td>
</tr>
<tr>
<td>E.737 (02/01)</td>
<td>Dimensioning methods for B-ISDN</td>
<td>46pp</td>
<td>22 CHF</td>
</tr>
<tr>
<td>E.743 (04/95)</td>
<td>Traffic measurements for SS No. 7 dimensioning and planning</td>
<td>3pp</td>
<td>8 CHF</td>
</tr>
<tr>
<td>E.744 (10/96)</td>
<td>Traffic and congestion control requirements for SS No. 7 and IN-structured networks</td>
<td>16pp</td>
<td>12 CHF</td>
</tr>
<tr>
<td>E.745 (03/00)</td>
<td>Cell level measurement requirements for the B-ISDN</td>
<td>20pp</td>
<td>17 CHF</td>
</tr>
<tr>
<td>E.750 (03/00)</td>
<td>Introduction to the E.750 series of Recommendations on traffic engineering aspects of networks supporting personal communications services</td>
<td>16pp</td>
<td>12 CHF</td>
</tr>
</tbody>
</table>
E.751 (02/96)  Reference connections for traffic engineering of land mobile networks
12pp  E 7206  F 7207  S 7208  12 CHF

E.752 (10/96)  Reference connections for traffic engineering of maritime and aeronautical systems
20pp  E 10015  F 10016  S 10017  17 CHF

E.755 (02/96)  Reference connections for UPT traffic performance and GOS
8pp  E 7036  F 7037  S 7038  9 CHF

E.760 (03/00)  Terminal mobility traffic modelling
20pp  E 18390  F 18391  S 18392  17 CHF

E.770 (03/93)  Land mobile and fixed network interconnection traffic grade of service concept
3pp  E 4308  F 4307  S 4309  8 CHF

E.771 (10/96)  Network grade of service parameters and target values for circuit-switched public land mobile services
20pp  E 9923  F 9924  S 9925  17 CHF

E.773 (10/96)  Maritime and aeronautical mobile grade of service concept
8pp  E 9862  F 9863  S 9864  9 CHF

E.774 (10/96)  Network grade of service parameters and target values for maritime and aeronautical mobile services
12pp  E 9865  F 9866  S 9867  12 CHF

E.775 (02/96)  UPT grade of service concept
8pp  E 7104  F 7105  S 7106  9 CHF

E.776 (10/96)  Network grade of service parameters for UPT
8pp  E 9868  F 9869  S 9870  9 CHF

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

Terms and definitions related to the quality of telecommunication services

E.800 (08/94)  Terms and definitions related to quality of service and network performance including dependability
53pp  E 5867  F 5866  S 5868  20 CHF

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

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

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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

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5pp E 3316 F 3315 S 3317 9 CHF

E.855 (11/88) Connection integrity objective for the international telephone service
Individually through the Electronic Bookshop: 20 CHF

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E.860 (06/02) Framework of a service level agreement
30pp E 22803 F 22804 S 22805 17 CHF

E.862 (06/92) Dependability planning of telecommunication networks
13pp E 2821 F 2786 S 2856 11 CHF

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

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Individually through the Electronic Bookshop: 20 CHF

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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:

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

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
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 telemessage service

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

F.41 (03/91) Interworking between the telemessage service and the international public telegram service
   Formerly Rec. F.51.
   2pp E 1963 F 1962 S 1964 7 CHF

The international telex service

F.59 (10/96) General characteristics of the international telex service
   12pp E 10889 F 10890 S 10891 12 CHF

F.60 (08/92) Operational provisions for the international telex service
   31pp E 3009 F 3002 S 3016 15 CHF

F.61 (11/88) Operational provisions relating to the chargeable duration of a telex call
   Individually through the Electronic Bookshop: 20 CHF

F.63 (03/93) Additional facilities in the international telex service
   2pp E 3748 F 3747 S 3749 8 CHF

F.64 (11/88) Determination of the number of international telex circuits required to carry a given volume of traffic
   Individually through the Electronic Bookshop: 20 CHF

F.65 (11/88) Time-to-answer by operators at international telex positions
   Individually through the Electronic Bookshop: 20 CHF

F.68 (11/88) Establishment of the automatic intercontinental telex network
   Individually through the Electronic Bookshop: 20 CHF

F.69 (06/94) The international telex service – Service and operational provisions of telex destination codes and telex network identification codes
   5pp E 5456 F 5455 S 5457 8 CHF

F.70 (11/88) Evaluating the quality of the international telex service
   Individually through the Electronic Bookshop: 20 CHF

F.71 (11/88) Interconnection of private teleprinter networks with the telex network
   Individually through the Electronic Bookshop: 20 CHF

F.72 (10/96) The international telex service – General principles and operational aspects of a store and forward facility
   20pp E 11009 F 11010 S 11011 17 CHF

F.73 (07/90) Operational principles for communication between terminals of the international telex service and data terminal equipment on packet-switched public data networks
   Corr. 12/90
   6pp E 1887 F 1886 S 1888 7 CHF

F.74 (08/92) Intermediate storage devices accessed from the international telex service using single stage selection – Answerback format
   2pp E 2876 F 2868 S 2884 8 CHF

F.80 (10/91) Basic requirements for interworking relations between the international telex service and other services
   3pp E 2348 F 2326 S 2370 7 CHF
F.82 (10/91)  Operational provisions to permit interworking between the international telex service and the intex service
2pp E 2345 F 2323 S 2367 7 CHF

F.83 (07/90)  Operational principles for communication between terminals of the international telex service and data terminal equipment on packet-switched public data networks
Published as F.73, then renumbered as F.83. A Corrigendum was indicated in 12/1990.
6pp E 1887 F 1886 S 1888 7 CHF

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

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

Covering note, December 1999: Intercommunication between the IPM service and the telex service.
Individually through the Electronic Bookshop:

F.86 (10/91)  Interworking between the international telex service and the videotex service
6pp E 2350 F 2328 S 2372 7 CHF

F.87 (03/91)  Operational principles for the transfer of messages from terminals on the telex network to Group 3 facsimile terminals connected to the public switched telephone network
Drafted as F.76, then renumbered and published as F.87.
9pp E 1966 F 1965 S 1967 10 CHF

F.89 (08/92)  Status enquiry function in the international telex service
4pp E 2877 F 2869 S 2885 8 CHF

Statistics and publications on international telegraph services

F.91 (11/88)  Withdrawn (07/96)
General statistics for the telegraph services
Deleted as a consequence of the abolishment of a number of service documents
Individually through the Electronic Bookshop:

F.92 (11/88)  Withdrawn (07/96)
Service codes
The content of this Recommendation is now covered by ITU-T F.32
Individually through the Electronic Bookshop:

F.93 (11/88)  Withdrawn (07/96)
Routing table for offices connected to the gentex service
Deleted as a consequence of the abolishment of a number of service documents
Individually through the Electronic Bookshop:

F.95 (11/88)  Withdrawn (07/96)
Table of international telex relations and traffic
Deleted as a consequence of the abolishment of a number of service documents
Individually through the Electronic Bookshop:

Scheduled and leased communication services

F.100 (11/88)  Scheduled radiocommunication service
Individually through the Electronic Bookshop: 20 CHF

F.104 (10/91)  International leased circuit services – customer circuit designations
2pp E 2342 F 2320 S 2364 7 CHF

Phototelegraph service

F.105 (11/88)  Operational provisions for phototelegrams
Published as F.80 (11/88), then renumbered as F.105.
Individually through the Electronic Bookshop: 20 CHF

F.106 (11/88)  Operational provisions for private phototelegraph calls
Published as F.80 bis (11/88), then renumbered as F.106.
Individually through the Electronic Bookshop: 20 CHF

F.107 (11/88)  Rules for phototelegraph established calls over circuits normally used for telephone traffic
Published as F.82 (11/88), then renumbered as F.107. This Recommendation is also included but not published in E series under alias number E.323.
Individually through the Electronic Bookshop: 20 CHF

F.108 (11/88)  Operating rules for international phototelegraph calls to multiple destinations
Published as F.85 (11/88), then renumbered as F.108.
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


F.112 (11/88) Quality objectives for 50-baud start-stop telegraph transmission in the maritime mobile-satellite service
Individually through the Electronic Bookshop: 20 CHF

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

3pp E 2879 F 2871 S 2887 8 CHF

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

9pp E 5967 F 5966 S 5968 11 CHF

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

16pp E 18042 F 18043 S 18044 12 CHF

F.120 (11/88) Ship station identification for VHF/UHF and maritime mobile-satellite services
This Recommendation is also published under alias number E.210
Individually through the Electronic Bookshop: 20 CHF

F.122 (11/88) Operational procedures for the maritime satellite data transmission service
Individually through the Electronic Bookshop: 20 CHF

F.125 (08/93) Numbering plan for access to the mobile-satellite services of INMARSAT from the international telex service
Recs E.215 and F.125 were deleted on December 20th, 2002 since their content was published as an annex to ITU-T Rec. E.217 (05/2002)

8pp E 4496 F 4495 S 4497 11 CHF

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

8pp E 10801 F 10802 S 10803 9 CHF

F.130 (11/88) Maritime answer-back codes
Individually through the Electronic Bookshop: 20 CHF

F.131 (11/88) Radiotelex service codes
Individually through the Electronic Bookshop: 20 CHF

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

4pp E 3862 F 3861 S 3863 8 CHF

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

3pp E 5468 F 5467 S 5469 8 CHF

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

4pp E 2349 F 2327 S 2371 7 CHF

Telematic services

Public facsimile service

F.160 (03/93) Withdrawn (07/99)
General operational provisions for the international public facsimile services
Deleted as a result of liberalisation in the telecommunications environment resulting in the removal of international regulated services

5pp E 3672 F 3671 S 3673 8 CHF

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

12pp E 9565 F 9566 S 9567 12 CHF

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

12pp E 9651 F 9652 S 9653 12 CHF

F.166 (07/96) Withdrawn (07/99)
Service and operational requirements for a fax database service (FaxDB)
Deleted as there are no plans for the introduction of a service of this nature

8pp E 7275 F 7276 S 7277 9 CHF

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

12pp E 13034 F 13035 S 13036 12 CHF

F.171 (11/88) Operational provisions relating to the use of store-and-forward switching nodes within the bureaufax service
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.182 bis (10/96) Guidelines for the support of the communication of documents using Group 3 facsimile between user terminals via public networks
8pp E 10777 F 10778 S 10779 9 CHF

F.182 (10/96) Withdrawn (07/99)
Operational provisions for the international public facsimile service between subscribers with Group 3 facsimile terminals (Telefax 3)
Deleted as a result of liberalisation in the telecommunications environment resulting in the removal of international regulated services
8pp E 10774 F 10775 S 10776 9 CHF

F.184 (07/96) Withdrawn (07/99)
Operational provisions for the international public facsimile service between subscriber stations with group 4 facsimile terminals (telefax 4)
Deleted as a result of liberalisation in the telecommunications environment resulting in the removal of international regulated services
16pp E 7487 F 7488 S 7489 12 CHF

F.185 (06/98) Internet facsimile: Guidelines for the support of the communication of facsimile documents
8pp E 13964 F 13965 S 13966 9 CHF

F.190 (08/92) Operational provisions for the international facsimile service between public bureaux and subscriber stations and vice versa (bureaufax-telefax and vice versa)
3pp E 2989 F 2982 S 2996 8 CHF

Teletex service

F.200 (08/92) Withdrawn (07/96)
Teletex service
Deleted as a consequence of the suppression of Teletex service

F.201 (03/93) Withdrawn (07/96)
Interworking between teletex service and telex service – General principles
Deleted as a consequence of the suppression of Teletex service

F.202 (11/88) Withdrawn (07/96)
Interworking between the telex service and the teletex service – General procedures and operational requirements for the international interconnection of telex/teletex conversion facilities
Deleted as a consequence of the suppression of Teletex service
Individually through the Electronic Bookshop:

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
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.422 (11/88) Withdrawn (07/96)
Message handling services: Intercommunication between the IPM service and the telex service
Deleted as a consequence of the suppression of Teletex service
Individually through the Electronic Bookshop:

F.423 (08/92) Message handling system: Intercommunication between the interpersonal messaging service and the telefax service
6pp E 3064 F 3063 S 3065 8 CHF

F.435 (06/99) Message handling services: Electronic Data Interchange messaging service
54pp E 17675 F 17676 S 17677 29 CHF

F.440 (08/92) Message handling services: The voice messaging service
32pp E 3080 F 3079 S 3081 20 CHF

F.471 (08/97) Operational requirements for the interconnection of voice-mail store-and-forward units
16pp E 11952 F 11953 S 11954 12 CHF

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

F.472 (08/97) Service and operational requirements of the voice-mail store-and-forward service
16pp E 11926 F 11927 S 11928 12 CHF

Directory services

F.500 (08/92) International public directory services
37pp E 3192 F 3191 S 3193 20 CHF

F.510 (02/03) Automated directory assistance – White pages service definition
54pp E 23964 F 23965 S 23966 29 CHF

F.515 (04/03) Unified Directory Specification
71pp E 24364 F 24365 S 24366 34 CHF

Document communication

F.551 (03/93) Withdrawn (05/00)
Service Recommendation for the telematic file transfer within telex 3, telefax 4, teletex services and message handling services
This Recommendation is no longer needed since the characteristics of the file transfer capabilities are fully described in ITU-T T.434 (BFT)
4pp E 3723 F 3722 S 3724 8 CHF

Programming communication interfaces

F.581 (03/93) Guidelines for programming communication interfaces (PCIs) definition: service Recommendation
8pp E 3977 F 3976 S 3978 11 CHF

Data transmission services

F.600 (09/98) Service and operational principles for public data transmission service
12pp E 14601 F 14602 S 14603 12 CHF

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

Audiovisual services

F.700 (11/00) Framework Recommendation for multimedia services
56pp E 18501 F 18502 S 18503 29 CHF

F.701 (11/00) Guideline Recommendation for identifying multimedia service requirements
12pp E 18733 F 18734 S 18735 12 CHF

F.701 (11/88) Withdrawn (05/98)
Teleconference service
This Recommendation was published as F.710 (11/88), then renumbered as F.701. Its content is superseded by ITU-T F.702 on multimedia
Individually through the Electronic Bookshop:
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

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 teletypewriter 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
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 (05/03) One-way transmission time

19pp E 24508 F 24509 S 24510 12 CHF

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

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

To be published...

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

To be published...

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

4pp E 7039 F 7040 S 7041 9 CHF

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

16pp E 17578 F 17579 S 17580 12 CHF

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

20pp E 7288 F 7290 S 7291 17 CHF

General characteristics of national systems forming part of international connections

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

16pp E 14677 F 14678 S 14679 12 CHF

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

13pp E 4656 F 4655 S 4657 11 CHF

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

11pp E 4814 F 4813 S 4815 11 CHF

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

Characteristics of national circuits on carrier systems

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

Individually through the Electronic Bookshop: 20 CHF

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

7pp E 4659 F 4658 S 4660 11 CHF

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

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

17pp E 24967 F 24968 S 24969 12 CHF

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

Attenuation distortion

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

Individually through the Electronic Bookshop: 20 CHF

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

Group-delay distortion

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

Individually through the Electronic Bookshop: 20 CHF

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

Linear crosstalk

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

Individually through the Electronic Bookshop: 20 CHF

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

Error on the reconstituted frequency

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

Individually through the Electronic Bookshop: 20 CHF

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

Covering note, May 2000: Erratum

8pp E 17347 F 17348 S 17349 9 CHF

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

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

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

Attenuation distortion

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

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 companders
Deleted because it deals with compandor transmission aspects, which use is no more recommended in networks
Individually through the Electronic Bookshop: 20 CHF

G.144 (11/88) Withdrawn (09/97)
Echo cancellers
27pp E 4246 F 4245 S 4247 20 CHF

G.145 (11/88) Withdrawn (02/99)
Characteristics of syllabic compandors for telephony on high capacity long distance systems
Deleted because it deals with compandor transmission aspects, which use is no more recommended in networks
Individually through the Electronic Bookshop: 20 CHF

G.146 (06/02) Digital network echo cancellers
108pp E 23300 F 23301 S 23302 44 CHF

G.147 (06/02) Acoustic echo controllers
16pp E 4108 F 4107 S 4109 15 CHF

G.148 (06/02) Transmission performance objectives for terrestrial digital wireless systems using portable terminals to access the PSTN
18pp E 4871 F 4870 S 4872 15 CHF

G.149 (06/04) 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.150 (11/88) Echo suppressors
Individually through the Electronic Bookshop: 22 CHF

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.160 (06/02) Interaction aspects of signal processing network equipment
32pp E 22751 F 22752 S 22753 17 CHF

G.161 (10/76) Withdrawn (03/93)
Echo-suppressors suitable for circuits having either short or long propagation times
Deleted after its content became technically out of date
Individually through the Electronic Bookshop:

G.162 (11/88) Withdrawn (02/99)
Characteristics of compandors for telephony
Individually through the Electronic Bookshop: 20 CHF

G.163 (11/88) Withdrawn (03/93)
Call concentrating systems
Deleted after its content became technically out of date
Individually through the Electronic Bookshop:

G.164 (11/88) Echo suppressors
Individually through the Electronic Bookshop: 22 CHF

G.165 (03/93) Echo cancellers
27pp E 4246 F 4245 S 4247 20 CHF

G.166 (11/88) Withdrawn (02/99)
Characteristics of syllabic compandors for telephony on high capacity long distance systems
Deleted because it deals with compandor transmission aspects, which use is no more recommended in networks
Individually through the Electronic Bookshop: 20 CHF

G.167 (03/93) Acoustic echo controllers
16pp E 4108 F 4107 S 4109 15 CHF

G.168 (06/02) Digital network echo cancellers
108pp E 23300 F 23301 S 23302 44 CHF

G.169 (07/99) Automatic level control devices
32pp E 16467 F 16468 S 16469 17 CHF

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

G.170 (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.171 (11/88) Transmission plan aspects of international conference calls
Individually through the Electronic Bookshop: 20 CHF

G.172 (11/88) Transmission plan aspects of the speech service in digital public land mobile networks
18pp E 4871 F 4870 S 4872 15 CHF

G.173 (03/93) Transmission planning aspects of the speech service in digital public land mobile networks
18pp E 4871 F 4870 S 4872 15 CHF

G.174 (06/94) Transmission performance objectives for terrestrial digital wireless systems using portable terminals to access the PSTN
13pp E 5558 F 5557 S 5559 11 CHF

G.175 (05/00) Transmission planning for private/public network interconnection of voice traffic
20pp E 19394 F 19395 S 19396 12 CHF
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>G.176</td>
<td>Planning guidelines for the integration of ATM technology into networks supporting voiceband services</td>
<td>16pp</td>
<td>12 CHF</td>
</tr>
<tr>
<td>G.177</td>
<td>Transmission planning for voiceband services over hybrid Internet/PSTN connections</td>
<td>20pp</td>
<td>17 CHF</td>
</tr>
<tr>
<td></td>
<td><strong>Protection and restoration of transmission systems</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G.180</td>
<td>Characteristics of N + M type direct transmission restoration systems for use on digital and analogue sections, links or equipment</td>
<td>12pp</td>
<td>11 CHF</td>
</tr>
<tr>
<td>G.181</td>
<td>Characteristics of 1 + 1 type restoration systems for use on digital transmission links</td>
<td>3pp</td>
<td>8 CHF</td>
</tr>
<tr>
<td></td>
<td><strong>Software tools for transmission systems</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G.191</td>
<td>Software tools for speech and audio coding standardization</td>
<td>16pp</td>
<td>62 CHF</td>
</tr>
<tr>
<td></td>
<td><em>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.</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G.192</td>
<td>A common digital parallel interface for speech standardisation activities</td>
<td>20pp</td>
<td>17 CHF</td>
</tr>
<tr>
<td></td>
<td><strong>General characteristics common to all analogue carrier-transmission systems</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G.211</td>
<td>Make-up of a carrier link</td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>G.212</td>
<td>Hypothetical reference circuits for analogue systems</td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>G.213</td>
<td>Interconnection of systems in a main repeater station</td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>G.214</td>
<td>Line stability of cable systems</td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>G.215</td>
<td>Hypothetical reference circuit of 5000 km for analogue systems</td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td></td>
<td><strong>Definitions and general considerations</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G.221</td>
<td>Overall recommendations relating to carrier-transmission systems</td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td></td>
<td><em>Individually through the Electronic Bookshop:</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G.222</td>
<td>Noise objectives for design of carrier-transmission systems of 2500 km</td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td></td>
<td><em>Individually through the Electronic Bookshop:</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G.223</td>
<td>Assumptions for the calculation of noise on hypothetical reference circuits for telephony</td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td></td>
<td><em>Individually through the Electronic Bookshop:</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G.224</td>
<td>Maximum permissible value for the absolute power level (power referred to one milliwatt) of a signalling pulse</td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td></td>
<td><em>This Recommendation was formerly also included in Q series under number Q.16</em></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td><em>Individually through the Electronic Bookshop:</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G.225</td>
<td>Recommendations relating to the accuracy of carrier frequencies</td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td></td>
<td><em>Individually through the Electronic Bookshop:</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G.226</td>
<td>Noise on a real link</td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td></td>
<td><em>Individually through the Electronic Bookshop:</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G.227</td>
<td>Conventional telephone signal</td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td></td>
<td><em>Individually through the Electronic Bookshop:</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G.228</td>
<td>Measurement of circuit noise in cable systems using a uniform-spectrum random noise loading</td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td></td>
<td><em>Individually through the Electronic Bookshop:</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G.229</td>
<td>Unwanted modulation and phase jitter</td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td></td>
<td><em>Individually through the Electronic Bookshop:</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G.230</td>
<td>Measuring methods for noise produced by modulating equipment and through-connection filters</td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td></td>
<td><em>Individually through the Electronic Bookshop:</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G.231</td>
<td>Arrangement of carrier equipment</td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td></td>
<td><em>Individually through the Electronic Bookshop:</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G.232</td>
<td>12-channel terminal equipments</td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td></td>
<td><em>Individually through the Electronic Bookshop:</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G.233</td>
<td>Recommendations concerning translating equipments</td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td></td>
<td><em>Individually through the Electronic Bookshop:</em></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
G.234 (10/76) Withdrawn (03/93)
8-channel terminal equipments

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

G.235 (11/88) Withdrawn (03/93)
16-channel terminal equipments

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

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.

Individually through the Electronic Bookshop: 20 CHF

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

Individually through the Electronic Bookshop: 20 CHF

Individual characteristics of international carrier telephone systems on metallic lines

G.311 (11/88) Withdrawn (03/93)
General characteristics of systems providing 12 carrier telephone circuits on an open-wire pair

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

G.312 (11/88) Withdrawn (03/93)
Intermediate repeaters for open-wire carrier systems conforming to Recommendation G.311

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

G.313 (11/88) Withdrawn (03/93)
Open-wire lines for use with 12-channel carrier systems

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

G.314 (10/76) Withdrawn (03/93)
General characteristics of systems providing eight carrier telephone circuits on an open-wire pair

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

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

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

G.324 (10/76) Withdrawn (03/93)
General characteristics for valve-type systems on symmetric cable pairs

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

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

Individually through the Electronic Bookshop: 20 CHF

G.326 (11/88) Withdrawn (03/93)
Typical systems on symmetric cable pairs [(12 + 12) systems]

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

G.327 (10/76) Withdrawn (03/93)
Valve-type systems offering 12 carrier telephone circuits on a symmetric cable pair [(12 + 12) systems]

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

Carrier systems on 2.6/9.5 mm coaxial cable pairs

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

Individually through the Electronic Bookshop: 20 CHF

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

Individually through the Electronic Bookshop: 20 CHF
G.334 (11/88) 18 MHz systems on standardized 2.6/9.5 mm coaxial cable pairs

Individually through the Electronic Bookshop: 20 CHF

G.337 (10/76) Withdrawn (03/93)
General characteristics of systems on 2.6/9.5 mm coaxial cable pairs

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

G.338 (10/76) Withdrawn (03/93)
4 MHz valve-type systems on standardized 2.6/9.5 mm coaxial cable pairs

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

G.339 (10/76) Withdrawn (03/93)
12 MHz valve-type systems on standardized 2.6/9.5 mm coaxial cable pairs

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

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

Individually through the Electronic Bookshop: 20 CHF

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

Individually through the Electronic Bookshop: 20 CHF

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

Individually through the Electronic Bookshop: 20 CHF

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

Individually through the Electronic Bookshop: 20 CHF

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

Individually through the Electronic Bookshop: 20 CHF

Additional Recommendations on cable systems

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

Individually through the Electronic Bookshop: 20 CHF

G.356 (11/80) Withdrawn (03/93)
(120 + 120) channel systems on a single coaxial pair

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

G.361 (11/88) Withdrawn (03/93)
Systems providing three carrier telephone circuits on a pair of open-wire lines

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

G.371 (11/88) Withdrawn (03/93)
FDM carrier systems for submarine cable

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

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

General Recommendations

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

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

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

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

Individually through the Electronic Bookshop: 20 CHF
Hypothetical reference circuits

G.431 (11/88)  Hypothetical reference circuits for frequency-division multiplex radio-relay systems
Individually through the Electronic Bookshop:  20 CHF

G.433 (06/64)  Withdrawn (03/93)
Hypothetical reference circuit for trans-horizon radio-relay systems for telephony using frequency-division multiplex
Deleted after its content became technically out of date
Individually through the Electronic Bookshop:

G.434 (06/64)  Withdrawn (03/93)
Hypothetical reference circuit for systems using analogue transmission in the fixed-satellite service
Deleted after its content became technically out of date
Individually through the Electronic Bookshop:

Circuit noise

G.441 (11/88)  Permissible circuit noise on frequency-division multiplex radio-relay systems
Individually through the Electronic Bookshop:  20 CHF

G.442 (11/88)  Radio-relay system design objectives for noise at the far end of a hypothetical reference circuit with reference to telegraphy transmission
Individually through the Electronic Bookshop:  20 CHF

G.444 (06/64)  Withdrawn (03/93)
Allowable noise power in the hypothetical reference circuit of trans-horizon radio-relay systems for telephony using frequency-division multiplex
Deleted after its content became technically out of date
Individually through the Electronic Bookshop:

G.445 (06/64)  Withdrawn (03/93)
Allowable noise power in the hypothetical reference circuit for frequency-division multiplex telephony in the fixed-satellite service
Deleted after its content became technically out of date
Individually through the Electronic Bookshop:

Coordination of radiotelephony and line telephony

G.451 (11/88)  Use of radio links in international telephone circuits
Individually through the Electronic Bookshop:  20 CHF

G.453 (11/88)  Withdrawn (03/93)
Improved transmission system for HF radiotelephone circuits
Deleted after its content became technically out of date
Individually through the Electronic Bookshop:

G.464 (11/88)  Withdrawn (03/93)
Principles of the devices used to achieve privacy in radiotelephone conversations
Deleted after its content became technically out of date
Individually through the Electronic Bookshop:

Links with mobile stations

G.473 (11/88)  Withdrawn (09/97)
Interconnection of a maritime mobile satellite system with the international automatic switched telephone service; transmission aspects
Withdrawn because it provided transmission planning information that was obsolete and no longer used
Individually through the Electronic Bookshop:

Supplements to Sections 2 to 5 of the Series G Recommendations

Suppl. 4 (12/72)  Certain methods of avoiding the transmission of excessive noise between interconnected systems
Green Book Volume III.2, page 572

Suppl. 5 (10/84)  Measurement of the load of telephone circuits under field conditions
Red Book Fascicle III.2, page 295

Suppl. 7 (12/72)  Loss-frequency response of channel-translating equipment used in some countries for international circuits
Green Book Volume III.2, page 590

Suppl. 8 (12/72)  Method proposed by the Belgian telephone administration for interconnection between coaxial and symmetric pair systems
Green Book Volume III.2, page 591
Suppl. 13 (10/76) Noise at the terminals of the battery supply
*Orange Book Fascicle III.3, page 664*

Suppl. 17 (10/84) Group-delay distortion performance of terminal equipment
*Red Book Fascicle III.2, page 311*

Suppl. 22 (10/84) Mathematical models of multiplex signals
*Red Book Fascicle III.2, page 326*

Suppl. 26 (10/84) Estimating the signal load margin of FDM wideband amplifier equipment and transmission systems
*Red Book Fascicle III.2, page 344*

Suppl. 27 (10/84) Interference from external sources
*This Supplement is also published as G.900 series supplement in Red Book fascicle III.3*
*Red Book Fascicle III.2, page 346*

Testing equipments

G.511 (02/98) Test methodology for Group 3 facsimile processing equipment in the Public Switched Telephone Network
*This Recommendation was renumbered as ITU-T Rec. T.5 on 2002-02-15 without further modification*

40pp E 13076 F 13077 S 13078 22 CHF

G.541 (10/76) **Withdrawn (03/93)** Specification of factory lengths of loaded telecommunication cable
*Deleted after its content became technically out of date*
*Individually through the Electronic Bookshop:*

G.542 (10/76) **Withdrawn (03/93)** Specification of loading coils for loaded telecommunication cables
*Deleted after its content became technically out of date*
*Individually through the Electronic Bookshop:*

G.543 (10/76) **Withdrawn (03/93)** Specification for repeater sections of loaded telecommunication cable
*Deleted after its content became technically out of date*
*Individually through the Electronic Bookshop:*

G.544 (10/76) **Withdrawn (03/93)** Specifications for terminal equipment and intermediate repeater stations
*Deleted after its content became technically out of date*
*Individually through the Electronic Bookshop:*

Transmission media characteristics

General

G.601 (11/88) Terminology for cables
*Individually through the Electronic Bookshop: 20 CHF*

G.602 (11/88) Reliability and availability of analogue cable transmission systems and associated equipments
*Individually through the Electronic Bookshop: 20 CHF*

G.611 (11/88) Characteristics of symmetric cable pairs for analogue transmission
*Individually through the Electronic Bookshop: 20 CHF*

G.612 (11/88) Characteristics of symmetric cable pairs designed for the transmission of systems with bit rates of the order of 6 to 34 Mbit/s
*Individually through the Electronic Bookshop: 20 CHF*

G.613 (11/88) Characteristics of symmetric cable pairs usable wholly for the transmission of digital systems with a bit rate of up to 2 Mbits
*Individually through the Electronic Bookshop: 20 CHF*

G.614 (11/88) Characteristics of symmetric pair 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
*Individually through the Electronic Bookshop: 20 CHF*

G.622 (11/88) Characteristics of 1.2/4.4 mm coaxial cable pairs
*Individually through the Electronic Bookshop: 20 CHF*

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

*Deleted after its content became technically out of date

*Individually through the Electronic Bookshop:*

**Optical fibre**

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

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

68pp E 22714 F 22715 S 22716 29 CHF

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

11pp E 23877 F 23878 S 23879 9 CHF

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

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

56pp E 22691 F 22692 S 22693 29 CHF

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

10pp E 23957 F 23958 S 23959 9 CHF

**Optical fibre cables**

**G.651 (02/98)** Characteristics of a 50/125 µm multimode graded index optical fibre cable

36pp E 13535 F 13536 S 13537 22 CHF

**Optical fibre**

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

20pp E 23916 F 23917 S 23918 12 CHF

**Optical fibre cables**

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

20pp E 25029 F 25030 S 25031 12 CHF

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

16pp E 19857 F 19858 S 19859 12 CHF

**Optical fibre**

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

24pp E 22694 F 22695 S 22696 17 CHF

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

19pp E 24155 F 24156 S 24157 12 CHF

**Characteristics of optical components and subsystems**

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

16pp E 14732 F 14733 S 14734 12 CHF

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

16pp E 14629 F 14630 S 14631 12 CHF

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

40pp E 19770 F 19771 S 19772 22 CHF

**Optical fibre cables**

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

10pp E 23499 F 23500 S 23501 9 CHF

**Characteristics of optical components and subsystems**

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

25pp E 24177 F 24178 S 24179 17 CHF

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

50pp E 22587 F 22588 S 22589 22 CHF

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

50pp E 25097 22 CHF

**Characteristics of optical components and subsystems**

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

*Covering note, 07.01.2000: Corrigendum 1*

40pp E 14418 F 14419 S 14420 22 CHF

**G.692 (1998) Corrigendum 1 (01/00)**
Characteristics of optical components and subsystems

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

Characteristics of optical components and subsystems

G.693 (11/01) Optical interfaces for intra-office systems
24pp   E 21878   F 21879   S 21880   17 CHF

G.693 (12/03) Optical interfaces for intra-office systems
26pp   E 25100   F 25101   S 25102   17 CHF

G.694.1 (06/02) Spectral grids for WDM applications: DWDM frequency grid
14pp   E 22348   F 22349   S 22350   12 CHF

G.694.2 (12/03) Spectral grids for WDM applications: CWDM wavelength grid
12pp   E 24851   F 24851   S 24853   9 CHF

G.695 (02/04) Optical interfaces for coarse wavelength division multiplexing applications
42pp   E 25326   22 CHF

Supplements to Section 6 of the Series G Recommendations

Suppl. 19 (10/84) Digital crosstalk measurement
(method used by the Administrations of France, the Netherlands and Spain)
Red Book Fascicle III.2, page 326

Digital terminal equipments

General

G.700 (11/88) Withdrawn (03/93)
Framework of the series G.700, G.800 and G.900 Recommendations
Deleted after its content became technically out of date

G.701 (03/93) Vocabulary of digital transmission and multiplexing, and pulse code modulation (PCM) terms
37pp   E 4350   F 4349   S 4351   20 CHF

G.702 (11/88) Digital hierarchy bit rates
Individually through the Electronic Bookshop: 20 CHF

G.703 (11/01) Physical/electrical characteristics of hierarchical digital interfaces
62pp   E 22057   F 22058   S 22059   29 CHF

G.704 (10/98) Synchronous frame structures used at 1544, 6312, 2048, 8448 and 44 736 kbit/s hierarchical levels
44pp   E 15440   F 15441   S 15442   22 CHF

G.705 (11/88) Withdrawn (10/96)
Characteristics required to terminate digital links on a digital exchange
The content of this Recommendation is now covered by ITU-T Q.500 series, and more specifically Q.554

G.705 (10/00) Characteristics of plesiochronous digital hierarchy (PDH) equipment functional blocks
204pp   E 20964   F 20965   S 20966   73 CHF

G.706 (04/91) Frame alignment and cyclic redundancy check (CRC) procedures relating to basic frame structures defined in Recommendation G.704
16pp   E 2101   F 2100   S 2102   13 CHF

G.707/Y.1322 (12/03) Network node interface for the synchronous digital hierarchy (SDH)
192pp   E 25300   73 CHF

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 (03/03) Interfaces for the Optical Transport Network (OTN)
117pp   E 25054   F 25055   S 25056   44 CHF
General

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

Coding of analogue signals by pulse code modulation

G.711 Appendix I (09/99) A high quality low-complexity algorithm for packet loss concealment with G.711
24pp E 17350 F 17351 S 17352 17 CHF

G.711 Appendix II (02/00) A comfort noise payload definition for ITU-T G.711 use in packet-based multimedia communication systems
16pp E 18278 F 18279 S 18280 12 CHF

G.711 (11/88) Pulse code modulation (PCM) of voice frequencies
Corresponding ANSI-C code is available in the G.711 module of the ITU-T G.191 Software Tools Library.
Individually through the Electronic Bookshop: 20 CHF

G.712 (11/01) Transmission performance characteristics of pulse code modulation channels
40pp E 22088 F 22089 S 22090 22 CHF

G.712 (11/88) Withdrawn (03/93)
Performance characteristics of PCM channels between 4-wire interfaces at voice frequencies
Deleted after its content became technically out of date
Individually through the Electronic Bookshop:

G.713 (11/88) Withdrawn (03/93)
Performance characteristics of PCM channels between 2-wire interfaces at voice frequencies
The content of this Recommendation is now covered by ITU-T G.712
Individually through the Electronic Bookshop:

G.714 (11/88) Withdrawn (03/93)
Separate performance characteristics for the encoding and decoding sides of PCM channels applicable to 4-wire voice-frequency interfaces
The content of this Recommendation is now covered by ITU-T G.712
Individually through the Electronic Bookshop:

G.715 (11/88) Withdrawn (03/93)
Separate performance characteristics for the encoding and decoding side of PCM channels applicable to 2-wire interfaces

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

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

G.722 Annex A (03/93) Testing signal-to-total distortion ratio for 7 kHz audio-codecs at 64 kbit/s Recommendation G.722 connected back-to-back
3pp E 4117 F 4116 S 4118 8 CHF

G.722 Appendix II (03/87) Digital test sequences for the verification of the G.722 64 kbit/s SB-ADPCM 7 kHz codec
This document corresponds to ITU-T Rec. G.722 Appendix II which was published in the Blue Book (1988). It includes one diskette containing the digital test sequences for the verification of the G.722 SB-ADPCM codec.
16pp E 10036 F 10037 S 10038 52 CHF
Coding of analogue signals by methods other than PCM

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

Coding of analogue signals by methods other than PCM

G.722 (11/88) 7 kHz audio-coding within 64 kbit/s
Corresponding ANSI-C code is available in the G722 module of the ITU-T G.191 Software Tools Library Individually through the Electronic Bookshop: 34 CHF

G.722.1 (09/99) Coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss
Covering note, 17 November 2000.
This Recommendation includes an electronic attachment containing the reference code (release 1.2) and the test vectors for ITU-T G.722.1 algorithm implementation verification. This release includes the corrections indicated in corrigendum 1 (11/2000)
1pp E 17335 F 17336 S 17337 142 CHF

G.722.1 Annex A (02/00) Packet format, capability identifiers and capability parameters
8pp E 18030 F 18031 S 18032 9 CHF

G.722.1 Annex B (11/00) Floating-point implementation for G.722.1
This annex includes an electronic attachment containing the reference code and the test vectors for ITU-T G.722.1/Annex B floating-point algorithm implementation verification
8pp E 22251 F 22252 S 22253 59 CHF

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

Coding of analogue signals by methods other than PCM

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

Coding of analogue signals by methods other than PCM

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

G.722.2 Annex B (01/02) Source Controlled Rate operation
16pp E 22230 F 22231 S 22232 12 CHF

Coding of analogue signals by methods other than PCM


G.722.2 Annex C (03/04) Fixed-point C-code
E 25317 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 5.7.0. Test sequences are freely available on the ITU publications website. They are also available for a fee on a CD-ROM from the ITU Sales department at sales@itu.int
14pp E 22179 F 22180 S 22181 59 CHF

G.722.2 Annex E (01/02) Frame structure
28pp E 22236 F 22237 S 22238 17 CHF

Published as a covering note

G.722.2 Annex F (11/02) AMR-WB usage in H.245
12pp E 23273 F 23274 S 23275 9 CHF

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:

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.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
E 10198  F 10199  S 10200  115 CHF

G.728/G.Imp728 (09/92)  Coding of speech at 16 kbit/s using low-delay code excited linear prediction
63pp  E 2991  F 2984  S 2998  24 CHF

G.728 Annex G (11/94)  16 kbit/s fixed point specification
64pp  E 6087  F 6086  S 6088  30 CHF

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

G.728 Annex H (05/99)  Variable bit rate LD-CELP operation mainly for DCME at rates less than 16 kbit/s
This Annex includes 1 CD-ROM containing the test data for verification of the 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 the 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 coder
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

To be published...

G.729 Annex B (1996) Corrigendum 2 (02/00)
This corrigendum concerns only the software; the resulting version 1.4 is included in the published ITU-T Recommendation G.729 Annex B (10/1996)
Coding of analogue signals by methods other than PCM

G.729 Annex B (1996) Corrigendum 3 (03/01)
This annex includes an electronic attachment containing version 2.3 of reference C code for floating point implementation of CS-ACELP at 6.4/8/11.8 kbit/s with DTX functionality.
16pp E 17771 F 17772 S 17773 137 CHF

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

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 (02/1998).
28pp E 14448 F 14449 S 14450 57 CHF

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).
16pp E 17828 F 17829 S 17830 137 CHF

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 G (2000) Corrigendum 1 (03/01)
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 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 kbit/s without DTX functionality.
E 17838 F 17839 S 17840 134 CHF

G.729 Annex I (2000) Corrigendum 1 (03/01)
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.
16pp E 17828 F 17829 S 17830 137 CHF

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 6891 F 6892 S 6893 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


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

20pp E 6805 F 6806 S 6807 17 CHF

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

111pp E 3195 F 3194 S 3196 38 CHF

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

36pp E 6901 F 6902 S 6903 22 CHF

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

108pp E 10821 F 10822 S 10823 44 CHF

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

32pp E 14434 F 14435 S 14436 17 CHF

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

34pp E 20820 F 20822 S 20823 17 CHF

G.769/Y.1242 (08/02) Circuit Multiplication Equipment optimized for IP-based networks

32pp E 23167 F 23168 S 23169 17 CHF

**Operations, administration and maintenance features of transmission equipment**

G.771 (11/88) Withdrawn (03/93)

Q-interfaces and associated protocols for transmission equipment in the TMN

*Deleted after its content became technically out of date*

G.772 (03/93) Protected monitoring points provided on digital transmission systems

5pp E 4111 F 4110 S 4112 8 CHF

G.773 (03/93) Protocol suites for Q-interfaces for management of transmission systems

17pp E 4153 F 4152 S 4154 15 CHF

G.774 (02/01) Synchronous digital hierarchy (SDH) – Management information model for the network element view

108pp E 21119 F 21120 S 21121 44 CHF

G.774.1 (02/01) Synchronous digital hierarchy (SDH) – Bidirectional performance monitoring for the network element view

40pp E 20838 F 20839 S 20840 22 CHF
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.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 22898 F 22890 S 22891 96 CHF

G.798 (2002) Amendment 1 (06/02)
22pp E 22688 F 22689 S 22690 17 CHF

Supplements to Section 7 of the Series G Recommendations

Suppl. 28 (10/84) Application of transmultiplexers, FDM codecs, data-in-voice (DIV) systems and data-over-voice (DOV) systems during the transition from an analogue to a digital network
Red Book Fascicle III.3, page 397

Suppl. 31 (11/88) Withdrawn (04/00)
Status of work of presently considered digital circuit multiplication equipment (DCME) documents
This Supplement was withdrawn because its was no longer relevant

Digital networks

General aspects

G.801 (11/88) Digital transmission models
Individually through the Electronic Bookshop: 20 CHF

G.802 (11/88) Interworking between networks based on different digital hierarchies and speech encoding laws
Individually through the Electronic Bookshop: 20 CHF

G.803 (03/00) Architecture of transport networks based on the synchronous digital hierarchy (SDH)
56pp E 19599 F 19600 S 19601 29 CHF

G.804 (02/98) ATM cell mapping into Plesiochronous Digital Hierarchy (PDH)
20pp E 20094 F 20095 S 20096 29 CHF

G.805 (03/00) Generic functional architecture of transport networks
60pp E 20094 F 20095 S 20096 29 CHF

G.806 (02/04) Characteristics of transport equipment – Description methodology and generic functionality
To be published...

G.807/Y.1302 (07/01) Requirements for automatic switched transport networks (ASTN)
22pp E 20720 F 20721 S 20722 17 CHF

General

G.808.1 (12/03) Generic protection switching – Linear trail and sub-network protection
To be published...

General aspects

G.809 (03/03) Functional architecture of connectionless layer networks
29pp E 24228 F 24229 S 24230 17 CHF

Design objectives for digital networks

G.810 (08/96) Definitions and terminology for synchronization networks
24pp E 9794 F 9795 S 9796 17 CHF

G.810 (1996) Corrigendum 1 (11/01)

G.811 (09/97) Timing characteristics of primary reference clocks
8pp E 12242 F 12243 S 12244 9 CHF
G.812 (06/98)  Timing requirements of slave clocks suitable for use as node clocks in synchronization networks
40pp  E 13565  F 13566  S 13567  22 CHF

G.813 (03/03)  Timing characteristics of SDH equipment slave clocks (SEC)
34pp  E 24044  F 24045  S 24046  17 CHF

G.821 (12/02)  Error performance of an international digital connection operating at a bit rate below the primary rate and forming part of an Integrated Services Digital Network
18pp  E 23355  F 23356  S 23357  12 CHF

G.822 (11/88)  Controlled slip rate objectives on an international digital connection
Individually through the Electronic Bookshop:  20 CHF

G.823 (03/00)  The control of jitter and wander within digital networks which are based on the 2048 kbit/s hierarchy
48pp  E 19758  F 19759  S 19760  22 CHF

G.824 (03/00)  The control of jitter and wander within digital networks which are based on the 1544 kbit/s hierarchy
24pp  E 19397  F 19398  S 19399  17 CHF

G.825 (03/00)  The control of jitter and wander within digital networks which are based on the synchronous digital hierarchy (SDH)
20pp  E 19273  F 19274  S 19275  12 CHF

G.825 Erratum 1 (08/01)  Erratum to Recommendation ITU-T G.825 (03/00)

G.826 (12/02)  End-to-end error performance parameters and objectives for international, constant bit-rate digital paths and connections
34pp  E 23371  F 23372  S 23373  17 CHF

G.827 (09/03)  Availability performance parameters and objectives for end-to-end international constant bit-rate digital paths
26pp  E 25076  17 CHF

G.827.1 (11/00)  Withdrawn (01/04)
Availability performance objectives for end-to-end international constant bit-rate digital paths at or above the primary rate

Deleted on 13/01/2004 after the incorporation of its content in G.827 (09/2003)
18pp  E 19866  F 19867  S 19868  12 CHF

G.828 (03/00)  Error performance parameters and objectives for international, constant bit rate synchronous digital paths
24pp  E 19498  F 19499  S 19500  17 CHF

G.828 (2000) Corrigendum 1 (07/01)

G.829 (12/02)  Error performance events for SDH multiplex and regenerator sections
16pp  E 23338  F 23339  S 23340  12 CHF

G.831 (03/00)  Management capabilities of transport networks based on the synchronous digital hierarchy (SDH)
16pp  E 19537  F 19528  S 19529  12 CHF

G.832 (10/98)  Transport of SDH elements on PDH networks – Frame and multiplexing structures
24pp  E 14607  F 14608  S 14609  17 CHF

G.841 (10/98)  Types and characteristics of SDH network protection architectures
140pp  E 15794  F 15795  S 15796  55 CHF

G.841 (1998) Corrigendum 1 (08/02)

G.842 (12/97)  Interworking of SDH network protection architectures
36pp  E 12031  F 12032  S 12033  22 CHF

G.851.1 (11/96)  Management of the transport network – Application of the RM-ODP framework
72pp  E 11053  F 11054  S 11055  34 CHF

G.852.1 (11/96)  Enterprise viewpoint for simple subnetwork connection management
16pp  E 11683  F 11684  S 11685  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
Digital sections and digital line system

General

G.901 (11/88)  General considerations on digital sections and digital line systems
   *Individually through the Electronic Bookshop:* 20 CHF

G.902 (11/95)  Framework Recommendation on functional access networks (AN) – Architecture and functions, access types, management and service node aspects
   44pp  E 9545  F 9546  S 9547  22 CHF

Parameters for optical fibre cable systems

G.911 (04/97)  Parameters and calculation methodologies for reliability and availability of fibre optic systems
   36pp  E 12157  F 12158  S 12159  22 CHF

Digital sections at hierarchical bit rates based on a bit rate of 2048 kbit/s

G.921 (11/88)  Digital sections based on the 2048 kbit/s hierarchy
   *Individually through the Electronic Bookshop:* 20 CHF

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

G.931 (11/88)  Withdrawn (05/02)
   Digital line sections at 3152 kbit/s
   *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’.*
   *Individually through the Electronic Bookshop:* 20 CHF

Digital line systems provided by FDM transmission bearers

G.941 (11/88)  Digital line systems provided by FDM transmission bearers
   *Individually through the Electronic Bookshop:* 20 CHF

Digital line systems

G.950 (11/88)  General considerations on digital line systems
   *Individually through the Electronic Bookshop:* 20 CHF

G.951 (11/88)  Digital line systems based on the 1544 kbit/s hierarchy on symmetric pair cables
   *Individually through the Electronic Bookshop:* 20 CHF

G.952 (11/88)  Digital line systems based on the 2048 kbit/s hierarchy on symmetric pair cables
   *Individually through the Electronic Bookshop:* 20 CHF

G.953 (11/88)  Digital line systems based on the 1544 kbit/s hierarchy on coaxial pair cables
   *Individually through the Electronic Bookshop:* 20 CHF

G.954 (11/88)  Digital line systems based on the 2048 kbit/s hierarchy on coaxial pair cables
   *Individually through the Electronic Bookshop:* 20 CHF

G.955 (11/88)  Withdrawn (03/93)
   Digital line systems based on the 1544 kbit/s and the 2048 kbit/s hierarchy on optical fibre cables
   *Deleted after its content became technically out of date*
   *Individually through the Electronic Bookshop:*

G.955 (11/96)  Digital line systems based on the 1544 kbit/s and the 2048 kbit/s hierarchy on optical fibre cables
   24pp  E 11701  F 11702  S 11703  17 CHF

G.956 (11/88)  Withdrawn (03/93)
   Digital line systems based on the 2048 kbit/s hierarchy on optical fibre cables
   *The content of this Recommendation is now covered by ITU-T G.955*
   *Individually through the Electronic Bookshop:*

G.957 (07/99)  Optical interfaces for equipments and systems relating to the synchronous digital hierarchy
   6pp  E 16537  F 16538  S 16539  22 CHF

G.957 (1999) Amendment 1 (12/03)
   10pp  E 24842  F 24843  S 24844  9 CHF

G.959.1 (12/03)  Optical transport network physical layer interfaces
   52pp  E 24895  F 24896  S 24897  22 CHF

Digital section and digital transmission systems for customer access to ISDN

G.960 (03/93)  Access digital section for ISDN basic rate access
   32pp  E 3914  F 3913  S 3915  20 CHF

G.961 (03/93)  Digital transmission system on metallic local lines for ISDN basic rate access
   *Covering note, 1st August 2000: Corrigendum 1*
   139pp  E 4102  F 4101  S 4103  42 CHF

G.961 erratum (08/00)
G.962 (03/93) Access digital section for ISDN primary rate at 2048 kbit/s
51pp E 3841 F 3840 S 3842 24 CHF

G.962 (1993) Amendment 1 (06/97) Maintenance channel
12pp E 11916 F 11917 S 11918 12 CHF

G.963 (03/93) Access digital section for ISDN primary rate at 1544 kbit/s
29pp E 3708 F 3707 S 3709 15 CHF

G.964 (03/01) V-interfaces at the digital local exchange (LE) – V5.1 interface (based on 2048 kbit/s) for the support of access network (AN)
203pp E 21555 F 21556 S 21557 73 CHF

G.965 (03/01) V-interfaces at the digital local exchange (LE) – V5.2 interface (based on 2048 kbit/s) for the support of access network (AN)
196pp E 21615 F 21616 S 21617 73 CHF

G.966 (02/99) Access digital section for B-ISDN
28pp E 16003 F 16004 S 16005 17 CHF

G.967 V-interfaces at the service node (SN)

G.967.1 (06/98) V-interfaces at the service node (SN) : VB5.1 reference point specification
This Recommendation includes one diskette containing the SDL process diagrams corresponding to the VB5.1 reference point.
192pp E 14280 F 14281 S 14282 12 CHF

G.967.2 (02/99) VB5.2 reference point specification
This Recommendation includes one diskette containing the SDL process diagrams corresponding to the VB5.2 reference point.
E 15920 F 15921 S 15922 101 CHF

G.967.3 (03/00) Protocol implementation conformance statements for interfaces at VB5 reference points
8pp E 19400 F 19401 S 19402 9 CHF

G.971 (04/00) General features of optical fibre submarine cable systems
20pp E 19686 F 19687 S 19688 12 CHF

G.972 (10/00) Definition of terms relevant to optical fibre submarine cable systems
24pp E 19906 F 19907 S 19908 17 CHF

G.973 (11/96) Characteristics of repeaterless optical fibre submarine cable systems
24pp E 11723 F 11724 S 11725 17 CHF

G.973 (12/03) Characteristics of repeaterless optical fibre submarine cable systems
To be published...

G.974 (03/93) Characteristics of regenerative optical fibre submarine cable systems
15pp E 4213 F 4212 S 4214 15 CHF

G.975 (10/00) Forward error correction for submarine systems
24pp E 20246 F 20247 S 20248 17 CHF

G.975.1 (02/04) Forward error correction for high bit rate DWDM submarine systems
To be published...

G.976 (10/00) Test methods applicable to optical fibre submarine cable systems
41pp E 19925 F 19926 S 19927 22 CHF

G.977 (03/04) Characteristics of optically amplified optical fibre submarine cable systems
To be published...

Access networks

G.977 (04/00) Characteristics of optically amplified optical submarine cable systems
40pp E 19689 F 19690 S 19691 22 CHF

Optical line systems for local and access networks

G.981 (01/94) PDH optical line systems for the local network
8pp E 5384 F 5383 S 5385 11 CHF

G.982 (11/96) Optical access networks to support services up to the ISDN primary rate or equivalent bit rates
28pp E 11714 F 11715 S 11716 17 CHF

G.983.1 (10/98) Broadband optical access systems based on Passive Optical Networks (PON)
116pp E 15705 F 15706 S 15707 49 CHF

G.983.1 (1998) Amendment 1 (11/01)
Amendment 1
20pp E 22001 F 22002 S 22003 12 CHF

G.983.1 (1998) Amendment 2 (03/03)
16pp E 24022 F 24023 S 24024 12 CHF
Suppl. 37 (10/98) ITU-T Recommendation G.763
digital circuit multiplication equipment (DCME)
tutorial and dimensioning
20pp E 15964 F 15965 S 15966 17 CHF

Suppl. 38 (10/98) Variable bit rate calculations for
ITU-T Recommendation G.767 Digital Circuit
Multiplication Equipment (DCME)
8pp E 14406 F 14407 S 14408 9 CHF

G.1000 (11/01) Communications Quality of Service:
A framework and definitions
16pp E 21742 F 21743 S 21744 12 CHF

G.1010 (11/01) End-user multimedia QoS categories
18pp E 21883 F 21884 S 21885 12 CHF

G.1020 (11/03) Performance parameter definitions
for quality of speech and other voiceband
applications utilising IP networks
30pp E 24964 F 24965 S 24966 17 CHF

G.7041/Y.1303 (12/03) Generic framing procedure
(GFP)
58pp E 24981 29 CHF

G.7042/Y.1305 (11/01) Link capacity adjustment
scheme (LCAS) for virtual concatenated signals
24pp E 21947 F 21948 S 21949 17 CHF

G.7042/Y.1305 (2001) Corrigendum 1 (06/02)
G.7042/Y.1305 (2001) Corrigendum 2 (03/03)

G.7710/Y.1701 (11/01) Common equipment
management function requirements
88pp E 22596 F 22597 S 22598 39 CHF

G.7712/Y.1703 (03/03) Architecture and
specification of data communication network
76pp E 24574 F 24575 S 24576 34 CHF

G.7713/Y.1704 (12/01) Distributed call and
connection management (DCM)
74pp E 22912 F 22913 S 22914 34 CHF

G.7713.1/Y.1704.1 (03/03) Distributed call and
connection management (DCM) based on PNNI
50pp E 24323 F 24324 S 24325 29 CHF

G.7713.2/Y.1704.2 (03/03) Distributed Call and
Connection Management: Signalling mechanism
using GMPLS RSVP-TE
45pp E 24418 F 24419 S 24420 22 CHF

G.7713.3/Y.1704.3 (03/03) Distributed Call and
Connection Management: Signalling mechanism
using GMPLS CR-LDP
43pp E 24383 F 24384 S 24385 22 CHF

G.7714/Y.1705 (11/01) Generalized automatic
discovery techniques
16pp E 21414 F 21415 S 21416 17 CHF

G.7714.1/Y.1705.1 (04/03) Protocol for automatic
discovery in SDH and OTN networks
30pp E 24421 F 24422 S 24423 17 CHF

G.7715/Y.1706 (06/02) Architecture and
Requirements for Routing in the Automatic Switched
Optical Networks
36pp E 22748 F 22749 S 22750 17 CHF

G.7715.1/Y.1706.1 (02/04) ASON routing
architecture and requirements for link state protocols
25pp E 25228 17 CHF

G.8010/Y.1306 (02/04) Architecture of Ethernet
Layer Networks
42pp E 25562 22 CHF

G.8040/Y.1340 (12/03) GFP frame mapping into
plesiochronous digital hierarchy (PDH)
10pp E 24845 F 24846 S 24847 9 CHF

G.8080/Y.1304 (11/01) Architecture for the
automatic switched optical networks (ASON)
48pp E 22221 F 22222 S 22223 22 CHF

G.8080/Y.1304 Amendment 1 (03/02)
To be published...

G.8201 (09/03) Error performance parameters and
objectives for multi-operator international paths
within the Optical Transport Network (OTN)
20pp E 24898 F 24899 S 24890 12 CHF
G.8251 (11/01)  The control of jitter and wander within the optical transport network (OTN)
64pp  E 22556  F 22557  S 22558  29 CHF

G.8251 (2001) Amendment 1 (06/02)
60pp  E 22874  F 22875  S 22876  29 CHF

G.8251 (2001) Corrigendum 1 (06/02)

**SERIES H**

**Audiovisual and multimedia systems**

H.11 (10/84)  Withdrawn (06/98)
Characteristics of circuits in the switched telephone network
Deleted after its content became technically out of date
Individually through the Electronic Bookshop:  20 CHF

H.12 (10/84)  Withdrawn (06/98)
Characteristics of telephone-type leased circuits
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 telephony-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 (03/04) Frame structure for a 64 to 1920 kbit/s channel in audiovisual teleservices
To be published...

H.221 Erratum (12/00) Erratum to Recommendation ITU-T H.221 (05/99)

H.222 (11/88) Withdrawn (12/90) Frame structure for 384-1920 kbit/s channels in audiovisual teleservices
Merged with ITU-T H.221 in 1990
Individually through the Electronic Bookshop:

H.222.0 (02/00) Information technology – Generic coding of moving pictures and associated audio information: Systems
This edition of ITU-T H.222.0 consolidates H.222.0 (07/1995) and its Amendments 1 and 2 (11/1996), 3 and 4 (02/1998), 5 and 6 (05/1999), 7 (02/2000) and Corrigendum 1 (02/1998)
172pp E 17983 F 17984 S 17985 73 CHF

Characteristics of visual telephone systems

H.222.0 (2000) Amendment 1 (12/02)
This amendment includes the correction introduced by H.222.0 (2000) Amend.1/Cor.1 (2003)
30pp E 23419 F 23420 S 23421 17 CHF

H.222.0 (2000) Amendment 1 Corrigendum 1 (06/03)
Never published, directly consolidated in Amend.1 to H.222.0 (2000)
To be published...

H.222.0 Amendment 2 (06/03) Support of IPMP on MPEG-2 systems
16pp E 24494 F 24495 S 24496 12 CHF

Infrastructure of audiovisual services

H.222.0 (2000) Amendment 2 Erratum 1 (02/04)
Applies to English version only

H.222.0 (2000) Amendment 3 (03/04) Transport of AVC video data over ITU-T Recommendation H.222.0 | ISO/IEC 13818-1 streams
To be published
To be published...

H.222.0 (2000) Technical Cor.1 (03/01)

H.222.0 (2000) Technical Cor.2 (03/02)

H.222.1 (03/96) Multimedia multiplex and synchronization for audiovisual communication in ATM environments
24pp E 7394 F 7395 S 7396 17 CHF

H.223 (07/01) Multiplexing protocol for low bit rate multimedia communication
76pp E 21543 F 21544 S 21545 22 CHF
H.224 (02/00) A real time control protocol for simplex applications using the H.221 LSD/HSD/HLP channels
20pp E 18714 F 18715 S 18716 17 CHF

Characteristics of visual telephone systems

H.225.0 (07/03) Call signalling protocols and media stream packetization for packet-based multimedia communication systems
187pp E 24904 F 24905 S 24906 73 CHF

Infrastructure of audiovisual services

H.226 (09/98) Channel aggregation protocol for multilink operation on circuit-switched networks
24pp E 14188 F 14189 S 14190 17 CHF

Systems aspects

H.230 (05/99) Frame-synchronous control and indication signals for audiovisual systems
24pp E 16586 F 16587 S 16588 17 CHF

Characteristics of visual telephone systems

Transmission multiplexing and synchronization

H.230 (03/04) Frame-synchronous control and indication signals for audiovisual systems
29pp E 25688 17 CHF

Infrastructure of audiovisual services

Systems aspects

H.231 (07/97) Multipoint control units for audiovisual systems using digital channels up to 1920 kbit/s
20pp E 12438 F 12439 S 12440 17 CHF

H.233 (11/02) Confidentiality system for audiovisual services
28pp E 23276 F 23277 S 23278 17 CHF

H.234 (11/02) Encryption key management and authentication system for audiovisual services
30pp E 23294 F 23295 S 23296 17 CHF

H.235 (08/03) Security and encryption for H-series (H.323 and other H.245-based) multimedia terminals
129pp E 25164 F 25165 S 25166 49 CHF

H.239 (07/03) Role management and additional media channels for H.300-series terminals
31pp E 24577 F 24578 S 24579 17 CHF

Communication procedures

H.241 (07/03) Extended video procedures and control signals for H.300-series terminals
This edition includes the modifications introduced by H.241 (2003) Cor.1 approved on 15 March 2004
24pp E 25281 F 25282 S 25283 17 CHF

H.241 (2003) Corrigendum 1 (03/04)
This corrigendum was never published, its content having been included in the published ITU-T Rec. H.241 (07/2003)

H.242 (05/99) System for establishing communication between audiovisual terminals using digital channels up to 2 Mbit/s
84pp E 16887 F 16888 S 16889 39 CHF

H.242 (03/04) System for establishing communication between audiovisual terminals using digital channels up to 2 Mbit/s
To be published...

H.243 (02/00) Procedures for establishing communication between three or more audiovisual terminals using digital channels up to 1920 kbit/s
60pp E 18147 F 18148 S 18149 29 CHF

H.243 (2000) Corrigendum 1 (11/00)

H.244 (07/95) Synchronized aggregation of multiple 64 or 56 kbit/s channels
28pp E 6467 F 6468 S 6469 15 CHF

H.245 (07/03) Control protocol for multimedia communication
To be published
313pp E 24237 F 23239 S 23240 124 CHF
H.246 (02/98)  Interworking of H-Series multimedia terminals with H-Series multimedia terminals and voice/voiceband terminals on GSTN and ISDN
28pp  E 13397  F 13398  S 13399  17 CHF

Characteristics of visual telephone systems

H.246 Annex C (07/03)  Annex C: ISDN User Part function – H.225.0 interworking
84pp  E 24945  F 24946  S 24947  34 CHF

Infrastructure of audiovisual services

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

56pp  E 21708  F 21709  S 21710  29 CHF

H.246 Annex F (07/01)  H.323 – H.324 interworking
18pp  E 21603  F 21604  S 21605  12 CHF

H.247 (09/98)  Multipoint extension for broadband audiovisual communication systems and terminals
28pp  E 14267  F 14268  S 14269  17 CHF

H.248 (06/00)  Gateway control protocol
This Recommendation was renumbered as H.248.1 when revised on 2002-03-29
132pp  E 18717  F 18718  S 18719  55 CHF

H.248/H.248.2 Annex F (11/00)  Facsimile, text conversation and call discrimination packages
This Annex was renumbered as Rec. H.248.2 on 2002-03-29 without further modification
48pp  E 22613  F 22614  S 22615  22 CHF

H.248/H.248.3 Annex G (11/00)  User interface elements and actions packages
This Annex was renumbered as Rec. H.248.3 on 2002-03-29 without further modification
16pp  E 22431  F 22432  S 22433  12 CHF

H.248/H.248.4 Annex H (11/00)  Transport over SCTP
This Annex was renumbered as Rec. H.248.4 on 2002-03-29 without further modification

H.248/H.248.5 Annex I (11/00)  Transport over ATM
This Annex was renumbered as Rec. H.248.5 on 2002-03-29 without further modification

H.248/H.248.6 Annex J (11/00)  Dynamic Tone Definition package
This Annex was renumbered as Rec. H.248.6 on 2002-03-29 without further modification

H.248/H.248.10 Annex M2 (07/01)  Gateway control protocol: Media gateway resource congestion handling package
This Annex was renumbered as H.248.10 on 2002-03-29 without further modification
10pp  E 20828  F 20829  S 20830  9 CHF

H.248/H.248.12 Annex M4 (07/01)  This annex was renumbered as H.248.12 on 2002-03-29 without further modification
30pp  E 20891  F 20892  S 20893  17 CHF

H.248.1 (05/02)  Gateway control protocol: Version 2
150pp  E 23024  F 23025  S 23026  61 CHF

H.248.1 V2 (2002) Corrigendum 1 (03/04)

H.248.2 (11/00)  Gateway control protocol: Facsimile, text conversation and call discrimination packages
This Recommendation was first approved and published as Annex F to H.248, and then renumbered as H.248.2 on 2002-03-29 without further modification

H.248.2/H.248 Annex F (11/00)  Facsimile, text conversation and call discrimination packages
This Annex was renumbered as Rec. H.248.2 on 2002-03-29 without further modification
To be published...

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

H.248.3/H.248 Annex G (11/00)  User interface elements and actions packages
This Annex was renumbered as Rec. H.248.3 on 2002-03-29 without further modification
To be published...

H.248.3 (2000) Corrigendum 1 (03/04)
H.262 (02/00) Information technology – Generic coding of moving pictures and associated audio information: Video


216pp E 18106 F 18107 S 18108 96 CHF

H.262 (2000) Amendment 1 (11/00) Amendment 1: Video elementary stream content description data

24pp E 19813 F 19814 S 19815 17 CHF

H.262 (2000) Amendment 1 Erratum 1 (04/02) Erratum 1

H.262 (2000) Technical Cor. 1 (11/00)

H.263 (02/98) Video coding for low bit rate communication

164pp E 13923 F 13924 S 13925 73 CHF

H.263 Annex U (11/00) Enhanced reference picture selection mode

40pp E 20590 F 20591 S 20592 22 CHF

H.263 Annex V (11/00) Data partitioned slice (DPS)

16pp E 20158 F 20159 S 20160 12 CHF

H.263 Annex W (11/00) Additional supplemental enhancement information

24pp E 20150 F 20151 S 20152 22 CHF

H.263 Annex X (04/01) Annex X: Profiles and levels definition

22pp E 20777 F 20778 S 20779 17 CHF

H.263 Annex X (03/04) Profiles and levels definition

21pp E 25557 17 CHF

H.263 Appendix II (06/01) Recommended optional enhancement

H.263 Appendix III (06/01) Video coding for low bit rate communication

Appendix III: Examples for H.263 encoder/decoder implementations

52pp E 22010 F 22011 S 22012 22 CHF

H.264 (05/03) Advanced video coding for generic audiovisual services

To be published...

Related systems aspects

H.281 (11/94) A far end camera control protocol for videoconferences using H.224

8pp E 5897 F 5896 S 5898 11 CHF

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.320 (03/04) Narrow-band visual telephone systems and terminal equipment

To be published...

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 (07/03) Packet-based multimedia communications systems

This version 5 of H.323 integrates without further modifications Annexes M3 (07/2001), P (01/2003), Q (07/2001) and R (07/2001) that were published separately, and Annex O that was approved independently on 07/2003

297pp E 25180 F 25181 S 25182 96 CHF

Infrastructure of audiovisual services

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

H.324 (2002) 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

H.350 (08/03) Directory services architecture for multimedia conferencing
E 24266 F 24267 S 24268 17 CHF

H.350.1 (08/03) Directory services architecture for H.323
E 24269 F 24270 S 24271 12 CHF

H.350.2 (08/03) Directory services architecture for H.235
E 24272 F 24273 S 24274 12 CHF

H.350.3 (08/03) Directory services architecture for H.320
E 24275 F 24276 S 24277 12 CHF

H.350.4 (08/03) Directory services architecture for SIP
18pp E 24186 F 24187 S 24188 12 CHF

H.350.5 (08/03) Directory services architecture for non-standard protocols
E 24434 F 24435 S 24436 12 CHF

H.360 (03/04) An architecture for end-to-end QoS control and signalling
To be published...

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
60pp 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

<table>
<thead>
<tr>
<th>Number</th>
<th>Title</th>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>H.460.3 (11/02)</strong></td>
<td>Circuit maps within H.323 systems</td>
<td>12</td>
<td>9 CHF</td>
</tr>
<tr>
<td><strong>H.460.4 (11/02)</strong></td>
<td>Call priority designation for H.323 calls</td>
<td>18</td>
<td>12 CHF</td>
</tr>
<tr>
<td><strong>H.460.5 (11/02)</strong></td>
<td>H.225.0 transport of multiple Q.931 information elements of the same type</td>
<td>10</td>
<td>9 CHF</td>
</tr>
<tr>
<td><strong>H.460.6 (11/02)</strong></td>
<td>Extended Fast Connect feature</td>
<td>20</td>
<td>12 CHF</td>
</tr>
<tr>
<td><strong>H.460.7 (11/02)</strong></td>
<td>Digit maps within H.323 systems</td>
<td>20</td>
<td>12 CHF</td>
</tr>
<tr>
<td><strong>H.460.8 (11/02)</strong></td>
<td>Querying for alternate routes within H.323 systems</td>
<td>12</td>
<td>9 CHF</td>
</tr>
<tr>
<td><strong>H.460.9 (11/02)</strong></td>
<td>Support for online QoS-monitoring reporting within H.323 systems</td>
<td>16</td>
<td>12 CHF</td>
</tr>
<tr>
<td><strong>H.460.10 (03/04)</strong></td>
<td>Call party category</td>
<td>To be published...</td>
<td></td>
</tr>
<tr>
<td><strong>H.460.11 (03/04)</strong></td>
<td>Delayed call establishment within H.323 systems</td>
<td>To be published...</td>
<td></td>
</tr>
<tr>
<td><strong>H.460.12 (03/04)</strong></td>
<td>Glare control indicator within H.323 systems</td>
<td>10</td>
<td>9 CHF</td>
</tr>
<tr>
<td><strong>H.460.13 (03/04)</strong></td>
<td>Called user release control</td>
<td>To be published...</td>
<td></td>
</tr>
<tr>
<td><strong>H.460.14 (03/04)</strong></td>
<td>Support for Multi-Level Precedence and Preemption (MLPP) within H.323 systems</td>
<td>To be published...</td>
<td></td>
</tr>
<tr>
<td><strong>H.460.15 (03/04)</strong></td>
<td>Call signalling transport channel suspension and redirection</td>
<td>To be published...</td>
<td></td>
</tr>
</tbody>
</table>

## Mobility and Collaboration procedures

### Mobility and Collaboration procedures

<table>
<thead>
<tr>
<th>Number</th>
<th>Title</th>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>H.501 (03/02)</strong></td>
<td>Protocol for mobility management and intra/inter-domain communication in multimedia systems</td>
<td>46</td>
<td>22 CHF</td>
</tr>
<tr>
<td><strong>H.510 (03/02)</strong></td>
<td>Mobility for H.323 multimedia systems and services</td>
<td>34</td>
<td>17 CHF</td>
</tr>
<tr>
<td><strong>H.530 (03/02)</strong></td>
<td>Symmetric security procedures for H.323 mobility in H.510</td>
<td>30</td>
<td>17 CHF</td>
</tr>
<tr>
<td><strong>H.530 Corrigendum 1 (07/03)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>H.610 (07/03)</strong></td>
<td>Full-Service VDSL – System architecture and customer premises equipment</td>
<td>127</td>
<td>49 CHF</td>
</tr>
<tr>
<td><strong>H.611 (07/03)</strong></td>
<td>Full-Service VDSL – Operations, Administration Maintenance &amp; Provision aspects</td>
<td>39</td>
<td>22 CHF</td>
</tr>
</tbody>
</table>

### 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.*

<table>
<thead>
<tr>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>137 CHF</td>
</tr>
</tbody>
</table>

### Suppl. 2 (04/04) H.248.x sub-series packages guide – Release 5

<table>
<thead>
<tr>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
<td>17 CHF</td>
</tr>
</tbody>
</table>
Suppl. 3 (03/04) Operator requirements for full-service VDSL in ITU-T Recommendations H.610 and H.611
40pp  E 24605  F 24606  S 24607  22 CHF

Suppl. 4 (03/04) Repository of generic parameters for the ITU-T Recommendations sub-series H.460.x
10pp  E 24245  F 24246  S 24247  9 CHF

Suppl. 4 (04/04) Repository of generic parameters for the ITU-T Recommendations H.460.x sub-series
10pp  E 25380  F 25381  S 25382  9 CHF

SERIES I
Integrated services digital network

Internetwork interfaces

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

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:

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:

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 2376  F 2375  S 2372  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
### Common aspects of services in the ISDN

**I.211 (03/93)** B-ISDN service aspects  
13pp E 3802 F 3801 S 3803 11 CHF

**I.220 (11/88)** Common dynamic description of basic telecommunication services  
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**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  
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**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 x 64 kbit/s, 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  
*Individually through the Electronic Bookshop:* 20 CHF

**I.241.2 (11/88)** Teletex  
*Individually through the Electronic Bookshop:* 20 CHF

**I.241.3 (11/88)** Telefax 4  
*Individually through the Electronic Bookshop:* 20 CHF
I.241.1 (11/88) Mixed mode
  Individually through the Electronic Bookshop: 20 CHF

I.241.5 (11/88) Videotex
  Individually through the Electronic Bookshop: 20 CHF

I.241.6 (11/88) Telex
  Individually through the Electronic Bookshop: 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
  Individually through the Electronic Bookshop: 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) Number identification supplementary services: 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
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I.252.2 (08/92) Call Forwarding Busy
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I.252.3 (08/92) Call Forwarding No Reply
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I.252.4 (08/92) Call Forwarding Unconditional
  11pp E 2897 F 2894 S 2900 11 CHF

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I.253 Call completion supplementary services

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  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
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I.254 Multiparty supplementary services

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I.254.5 (05/97) Meet-me conference
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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)
Empty Recommendation. This subject has only been identified and is left for further study.
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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
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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

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 (1996) Amendment 1 (03/00)
4pp  E 19320  F 19321  S 19322  9 CHF

I.312/Q.1201 (10/92)  Principles of intelligent network architecture
This Recommendation is published with the double number Q.1201 and I.312
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
Covering note, May 2000: Erratum
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
Deleted after its content became technically out of date

I.326 (03/03)  Functional architecture of transport networks based on ATM
21pp  E 24307  F 24308  S 24309  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
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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

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

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

ISDN routing principles

Superseded by ITU-T E.172 (1992)

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

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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 (2000) Corrigendum 1 (03/02)

General network requirements and functions

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10pp  E 2354  F 2332  S 2376  12 CHF

I.371 (03/00)  Traffic control and congestion control in B-ISDN  
132pp  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  
22pp  E 23368  F 23369  S 23370  17 CHF

I.378 (2002) Amendment 1 (08/03)  
New Appendix IV: Deriving AAL 2 traffic parameters from AAL 2 link characteristics  
8pp  E 24776  F 24777  S 24778  9 CHF
ISDN user-network interfaces

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

I.431 (1993) 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 (1993) Amendment 1 (06/00)
To be published...

Digital subscriber Signalling System No. 1

I.441 (09/97) ISDN user-network interface – Data link layer specification
This Recommendation is published under alias number Q.921.
268pp E 13327 F 13328 S 13329 96 CHF

ISDN user-network interfaces

I.441 (1997) Amendment 1 (06/00)
To be published...

Layer 3 Recommendations

I.450 (03/93) ISDN user-network interface layer 3 – General aspects
This Recommendation is published under alias number Q.930.

I.451 (05/98) ISDN user-network interface layer 3 specification for basic call control
This Recommendation is published under alias number Q.931.

I.452 (05/98) Digital subscriber signalling 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

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

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Internetwork interfaces

I.500 (03/93)  General structure of the ISDN interworking Recommendations

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I.501 (03/93)  Service interworking

8pp  E 3781  F 3780  S 3782  11 CHF

I.510 (03/93)  Definitions and general principles for ISDN interworking

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I.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

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I.570 (03/93)  Public/private ISDN interworking

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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

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I.581 (09/97)  General arrangements for B-ISDN interworking

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Maintenance principles

I.601 (11/88)  General maintenance principles of ISDN subscriber access and subscriber installation

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I.610 (02/99)  B-ISDN operation and maintenance principles and functions

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I.610 (1999) Amendment 1 (03/00)
4pp E 19512 F 19513 S 19514 9 CHF

I.610 (1999) Corrigendum 1 (03/00)

I.620 (10/96) Frame relay operation and maintenance principles and functions
12pp E 10827 F 10828 S 10829 12 CHF

I.630 (02/99) ATM protection switching
40pp E 16065 F 16066 S 16067 22 CHF

I.630 (1999) Amendment 1 (03/00)
4pp E 19457 F 19458 S 19459 9 CHF

I.630 (1999) Corrigendum 1 (03/00)

B-ISDN equipment aspects

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I.732 (10/00) Functional characteristics of ATM equipment
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Transport functions

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Management of ATM equipment

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Multiplexing aspects

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I.762 (03/00) ATM over fractional physical links
8pp E 19515 F 19516 S 19517 9 CHF

76 ITU-T 05/04 – Series J
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Performance characteristics of analogue sound-programme circuits

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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
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J.23 (11/88)  Performance characteristics of 7 kHz type (narrow bandwidth) sound-programme circuits
Formerly ITU-R Rec. CMTT 503-4
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J.24 (02/82)  Modulation of signals carried by sound-programme circuits by interfering signals from power supply sources
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J.25 (05/86)  Estimation of transmission performance of sound-programme circuits shorter or longer than the hypothetical reference circuit
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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
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J.30 (11/88)  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
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J.32 (10/84)  Withdrawn (03/93)
Characteristics of equipment and lines used for setting up 10 kHz type sound-programme circuits
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J.33 (11/88)  Withdrawn (03/99)
Characteristics of equipment and lines used for setting up 6.4 kHz type sound-programme circuits
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J.34 (11/88)  Withdrawn (03/99)
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J.42 (11/88)  Characteristics of equipment for the coding of analogue medium quality sound-programme signals for transmission on 384-kbit/s channels
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J.43 (11/88)  Withdrawn (03/99)
Characteristics of equipment for the coding of analogue high quality sound programme signals for transmission on 320 kbit/s channels
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J.44 (11/88)  Withdrawn (03/99)
Characteristics of equipment for the coding of analogue medium quality sound-programme signals for transmission on 320 kbit/s channels
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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

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
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**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 11220 F 11220 S 11220 9 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
Published as ITU-R Rec. CMTT 719 in CCIR Recommendations, Volume XII, Düsseldorf, 1990. Deleted because no system or equipment have been developed during the last two study periods
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**J.57 (06/90)** Transmission of digital studio quality sound signals over H1 channels
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Circuits for analogue television transmission

**J.61 (06/90)** Transmission performance of television circuits designed for use in international connections
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**J.62 (02/78)** Single value of the signal-to-noise ratio for all television systems
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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
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Individually through the Electronic Bookshop: 20 CHF
E 10596 F 10596 S 10596 12 CHF

**J.64 (02/86)** Definitions of parameters for simplified automatic measurement of television insertion test signals
Published as ITU-R Rec. CMTT 569-2 in CCIR Recommendations, Volume XII, Düsseldorf, 1990
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**J.65 (02/78)** Standard test signal for conventional loading of a television channel
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E 11239 F 11239 S 11239 12 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
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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

4pp E 6441 F 6442 S 6443 8 CHF

8pp E 13519 F 13520 S 13521 9 CHF


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.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

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
<table>
<thead>
<tr>
<th>Document Number</th>
<th>Title</th>
<th>Pages</th>
<th>Price</th>
<th>ISBN</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>J.91 (08/94)</td>
<td>Technical methods for ensuring privacy in long-distance international television transmission</td>
<td>17pp</td>
<td>E 5582 F 5581 S 5583</td>
<td>15 CHF</td>
<td>E 11248 F 11248 S 11248</td>
</tr>
<tr>
<td>J.92 (04/97)</td>
<td>Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE’s</td>
<td>8pp</td>
<td>E 11173 F 11174 S 11175</td>
<td>9 CHF</td>
<td>E 11249 F 11249 S 11249</td>
</tr>
<tr>
<td>J.93 (03/98)</td>
<td>Requirements for conditional access in the secondary distribution of digital television on cable television systems</td>
<td>12pp</td>
<td>E 13494 F 13495 S 13496</td>
<td>12 CHF</td>
<td>E 10742 F 10744 S 10743</td>
</tr>
<tr>
<td>J.94 (11/98)</td>
<td>Service information for digital broadcasting in cable television systems</td>
<td>84pp</td>
<td>E 16336 F 16337 S 16339</td>
<td>96 CHF</td>
<td>E 13568 F 13569 S 13570</td>
</tr>
<tr>
<td>J.94 (1998) Amendment 1 (10/00)</td>
<td>Service information delivered out of band for digital cable television systems</td>
<td>128pp</td>
<td>E 20330 F 20331 S 20332</td>
<td>49 CHF</td>
<td>E 22386 F 22387 S 22388</td>
</tr>
<tr>
<td>J.95 (09/99)</td>
<td>Copy protection of intellectual property for content delivered on cable television systems</td>
<td>63pp</td>
<td>E 18570 F 18571 S 18572</td>
<td>29 CHF</td>
<td>E 11249 F 11249 S 11249</td>
</tr>
<tr>
<td>J.96 (07/02)</td>
<td>Technical method for ensuring privacy in long-distance international MPEG-2 television transmission conforming to Recommendation J.89</td>
<td>18pp</td>
<td>E 22313 F 22314 S 22315</td>
<td>12 CHF</td>
<td>E 22386 F 22387 S 22388</td>
</tr>
<tr>
<td>J.97 (07/02)</td>
<td>Metadata on cable networks</td>
<td>9pp</td>
<td>E 22665 F 22666 S 22667</td>
<td>9 CHF</td>
<td>E 13497 F 13498 S 13499</td>
</tr>
<tr>
<td>J.98 (05/03)</td>
<td>Metadata requirements for video-on-demand in cable networks</td>
<td>14pp</td>
<td>E 24437 F 24438 S 24439</td>
<td>12 CHF</td>
<td>E 18010 F 18011 S 18012</td>
</tr>
</tbody>
</table>

**Operational requirements and methods for television transmission**

<table>
<thead>
<tr>
<th>Document Number</th>
<th>Title</th>
<th>Pages</th>
<th>Price</th>
<th>ISBN</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>J.100 (06/90)</td>
<td>Tolerances for transmission time differences between the vision and sound components of a television signal</td>
<td>17pp</td>
<td>E 5582 F 5581 S 5583</td>
<td>15 CHF</td>
<td>E 11248 F 11248 S 11248</td>
</tr>
<tr>
<td>J.101 (06/90)</td>
<td>Measurement methods and test procedures for teletext signals Published as ITU-R Rec. CMTT 720 in CCIR Recommendations, Volume XII, Düsseldorf, 1990</td>
<td>17pp</td>
<td>E 5582 F 5581 S 5583</td>
<td>15 CHF</td>
<td>E 11248 F 11248 S 11248</td>
</tr>
</tbody>
</table>

**Interactive systems for digital television distribution**

<table>
<thead>
<tr>
<th>Document Number</th>
<th>Title</th>
<th>Pages</th>
<th>Price</th>
<th>ISBN</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>J.110 (04/97)</td>
<td>Basic principles for a worldwide common family of systems for the provision of interactive television services</td>
<td>12pp</td>
<td>E 10742 F 10744 S 10743</td>
<td>12 CHF</td>
<td>E 11249 F 11249 S 11249</td>
</tr>
<tr>
<td>J.111 (03/98)</td>
<td>Network independent protocols for interactive systems Guidelines for the implementation of Rec. J.111 may be found in Supplement 3 to J series (1998).</td>
<td>16pp</td>
<td>E 13568 F 13569 S 13570</td>
<td>12 CHF</td>
<td>E 11249 F 11249 S 11249</td>
</tr>
<tr>
<td>J.112 Amd1 (03/01)</td>
<td>New Annexes A and B To be published...</td>
<td>1pp</td>
<td>E 22386 F 22387 S 22388</td>
<td>9 CHF</td>
<td>E 11249 F 11249 S 11249</td>
</tr>
<tr>
<td>J.112 Annex A (03/01)</td>
<td>Digital video broadcasting: DVB interaction channel for cable TV distribution systems</td>
<td>192pp</td>
<td>E 21982 F 21983 S 21984</td>
<td>73 CHF</td>
<td>E 11249 F 11249 S 11249</td>
</tr>
<tr>
<td>J.112 Annex B (03/04)</td>
<td>Data-over-cable service interface specifications: Radio-frequency interface specification To be published...</td>
<td>1pp</td>
<td>E 22386 F 22387 S 22388</td>
<td>9 CHF</td>
<td>E 11249 F 11249 S 11249</td>
</tr>
<tr>
<td>J.113 (03/98)</td>
<td>Digital video broadcasting interaction channel through the PSTN/ISDN</td>
<td>8pp</td>
<td>E 13497 F 13498 S 13499</td>
<td>9 CHF</td>
<td>E 11249 F 11249 S 11249</td>
</tr>
<tr>
<td>J.114 (09/99)</td>
<td>Interaction channel using digital enhanced cordless telecommunications</td>
<td>20pp</td>
<td>E 18010 F 18011 S 18012</td>
<td>17 CHF</td>
<td>E 11249 F 11249 S 11249</td>
</tr>
<tr>
<td>J.115 (09/99)</td>
<td>Interaction channel using the global system for mobile communications</td>
<td>12pp</td>
<td>E 17708</td>
<td>F 17709</td>
<td>S 17710</td>
</tr>
<tr>
<td>J.116 (05/00)</td>
<td>Interaction channel for local multipoint distribution systems</td>
<td>240pp</td>
<td>E 20333</td>
<td>F 20334</td>
<td>S 20335</td>
</tr>
<tr>
<td>J.117 (09/99)</td>
<td>Home digital network interface specification</td>
<td>100pp</td>
<td>E 17995</td>
<td>F 17996</td>
<td>S 17997</td>
</tr>
<tr>
<td>J.118 (05/00)</td>
<td>Access systems for interactive services on SMATV/MATV networks</td>
<td>36pp</td>
<td>E 19977</td>
<td>F 19978</td>
<td>S 19979</td>
</tr>
<tr>
<td>J.120 (05/00)</td>
<td>Recommendation J.120 (05/00) – Distribution of sound and television programs over the IP network</td>
<td>24pp</td>
<td>E 20002</td>
<td>F 20003</td>
<td>S 20004</td>
</tr>
<tr>
<td>J.121 (02/02)</td>
<td>Quality control protocol for webcasting</td>
<td>28pp</td>
<td>E 22172</td>
<td>F 22173</td>
<td>S 22174</td>
</tr>
<tr>
<td>J.122/J.Imp122 (12/02)</td>
<td>Second-generation transmission systems for interactive cable television services – IP cable modems</td>
<td>506pp</td>
<td>E 23675</td>
<td>F 23676</td>
<td>S 23677</td>
</tr>
<tr>
<td>J.123 (07/02)</td>
<td>Multiplexing format for webcasting on TCP/IP network</td>
<td>21pp</td>
<td>E 22900</td>
<td>F 22901</td>
<td>S 22902</td>
</tr>
<tr>
<td>J.124 (03/04)</td>
<td>Multiplexing format for multimedia webcasting over TCP/IP networks</td>
<td>31pp</td>
<td>E 25594</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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 | 48pp | E 20034 | F 20034 | 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 |

**Measurement of the quality of service**

| J.145 (03/01) | Measurement and control of the quality of service for sound transmission over contribution and distribution networks | 12pp | E 20770 | F 20771 | S 20772 | 9 CHF |

**Measurement of the quality of service**

| J.146 (07/02) | Loop latency issues in contribution circuits for conversational TV programmes | 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 |
| J.148 (05/03) | Requirements for an objective perceptual multimedia quality model | 12pp | E 24231 | F 24232 | S 24233 | 9 CHF |
| J.149 (03/04) | Method for specifying accuracy and cross-calibration of Video Quality Metrics (VQM) | To be published... |
Digital television distribution through local subscriber networks

J.150 (03/98)  Operational functionalities for the delivery of digital multiprogramme television, sound and data services through multichannel, multipoint distribution systems (MMDS)  
16pp  E 13706  F 13707  S 13708  12 CHF

J.150 (1998) Amendment 1 (09/99)  Additions to Recommendation J.150 to also encompass local multipoint distribution systems (LMDS)  
12pp  E 17678  F 17679  S 17680  12 CHF

J.150 (1998) Amendment 2 (03/01)  Operational functionalities for the delivery of digital multiprogramme television, sound and data services through multichannel, multipoint distribution systems (MMDS)  
10pp  E 20989  F 20990  S 20991  9 CHF

J.151 (10/00)  RF remodulator interface for digital television  
36pp  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 (03/04)  Network call signalling protocol for the delivery of time-critical services over cable television networks using cable modems  
To be published...

J.162 (2001) Amendment 1 (02/02)  
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

IPCablecom

J.163 (03/04)  Dynamic quality of service for the provision of real time services over cable television networks using cable modems  
To be published...

Digital television distribution through local subscriber networks

J.164 (03/01)  Event message requirements for the support of real-time services over cable television networks using cable modems  
63pp  E 20740  F 20741  S 20742  29 CHF

IPCablecom

J.165 (05/03)  IPCablecom Internet signalling transport protocol (ISTP)  
64pp  E 24408  F 24409  S 24410  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.171 (2002) Amendment 1 (05/03)  TGCP Profile 2  
24pp  E 24473  F 24474  S 24476  17 CHF
<table>
<thead>
<tr>
<th>Reference</th>
<th>Title</th>
<th>Pages</th>
<th>Price</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>J.172 (02/02)</td>
<td>IPCablecom management event mechanism</td>
<td>16pp</td>
<td>12 CHF</td>
<td>E 22656 F 22657 S 22658</td>
</tr>
<tr>
<td>J.173 (02/02)</td>
<td>IPCablecom embedded MTA primary line support</td>
<td>29pp</td>
<td>17 CHF</td>
<td>E 22652 F 22653 S 22654</td>
</tr>
<tr>
<td>J.174 (02/02)</td>
<td>IPCablecom interdomain quality of service</td>
<td>29pp</td>
<td>17 CHF</td>
<td>E 22685 F 22686 S 22687</td>
</tr>
<tr>
<td>J.175 (07/02)</td>
<td>Audio server protocol</td>
<td>58pp</td>
<td>29 CHF</td>
<td>E 22929 F 22930 S 22931</td>
</tr>
<tr>
<td>J.176 (07/02)</td>
<td>IPCablecom management event mechanism MIB</td>
<td>22pp</td>
<td>17 CHF</td>
<td>E 22754 F 22755 S 22756</td>
</tr>
<tr>
<td>J.177 (05/03)</td>
<td>IPCablecom CMS subscriber provisioning specification</td>
<td>60pp</td>
<td>29 CHF</td>
<td>E 24380 F 24381 S 24382</td>
</tr>
<tr>
<td>J.178 (05/03)</td>
<td>IPCablecom CMS to CMS signalling</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>J.180 (05/00)</td>
<td>User requirements for statistical multiplexing of several programmes on a transmission channel</td>
<td>8pp</td>
<td>9 CHF</td>
<td>E 19860 F 19861 S 19862</td>
</tr>
<tr>
<td>J.181 (03/01)</td>
<td>Digital program insertion cueing message for cable television systems</td>
<td>27pp</td>
<td>17 CHF</td>
<td>E 20918 F 20919 S 20920</td>
</tr>
<tr>
<td>J.182 (03/01)</td>
<td>Parameter sets for analogue interface specifications for the interconnection of set-top-boxes and presentation devices in the home</td>
<td>50pp</td>
<td>22 CHF</td>
<td>E 20524 F 20525 S 20526</td>
</tr>
<tr>
<td>J.183 (03/01)</td>
<td>Time division multiplexing of multiple MPEG-2 transport streams over cable television systems</td>
<td>16pp</td>
<td>12 CHF</td>
<td>E 20560 F 20561 S 20562</td>
</tr>
<tr>
<td>J.184 (03/01)</td>
<td>Digital broadband delivery system: Out-of-band transport</td>
<td>108pp</td>
<td>44 CHF</td>
<td>E 21609 F 21610 S 21611</td>
</tr>
<tr>
<td>J.185 (02/02)</td>
<td>Transmission equipment for transferring multi-channel television signals over optical access networks by FM conversion</td>
<td>20pp</td>
<td>12 CHF</td>
<td>E 22757 F 22758 S 22759</td>
</tr>
<tr>
<td>J.186 (02/02)</td>
<td>Transmission equipment for multi-channel television signals over optical access networks by sub-carrier multiplexing (SCM)</td>
<td>23pp</td>
<td>17 CHF</td>
<td>E 22680 F 22681 S 22682</td>
</tr>
<tr>
<td>J.187 (07/02)</td>
<td>Transport mechanism for component-coded digital high-definition television signals using MPEG-2 video coding including all service elements for contribution and primary distribution</td>
<td>14pp</td>
<td>12 CHF</td>
<td>E 22782 F 22783 S 22784</td>
</tr>
<tr>
<td>J.189 (07/02)</td>
<td>Seamless splicing for MPEG-2 bit streams</td>
<td>16pp</td>
<td>12 CHF</td>
<td>E 22785 F 22786 S 22787</td>
</tr>
<tr>
<td>J.190 (07/02)</td>
<td>Architecture of MediaHomeNet that supports cable based services</td>
<td>52pp</td>
<td>22 CHF</td>
<td>E 22986 F 22987 S 22988</td>
</tr>
<tr>
<td>J.191 (03/04)</td>
<td>IP feature package to enhance cable modems</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>J.192 (03/04)</td>
<td>A residential gateway to support the delivery of cable data services</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>J.200 (03/01)</td>
<td>Worldwide common core – Application environment for digital interactive television services</td>
<td>30pp</td>
<td>17 CHF</td>
<td>E 20736 F 20737 S 20738</td>
</tr>
</tbody>
</table>

Digital television distribution through local subscriber networks

J.180 (05/00) | User requirements for statistical multiplexing of several programmes on a transmission channel | 8pp | 9 CHF | E 19860 F 19861 S 19862 |

Miscellaneous

J.181 (2001) Amendment 1 (04/03) New Appendix I: Recommended practices and interpretation guide | 34pp | 17 CHF | E 24527 F 24528 S 24529 |

Digital television distribution through local subscriber networks

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

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

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

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

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

Digital television distribution through local subscriber networks

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 | 12 CHF | E 22782 F 22783 S 22784 |

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

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

J.191 (03/04) IP feature package to enhance cable modems |       |        |          |

J.192 (03/04) A residential gateway to support the delivery of cable data services |       |        |          |

Digital television distribution through local subscriber networks

J.200 (03/01) Worldwide common core – Application environment for digital interactive television services | 30pp | 17 CHF | E 20736 F 20737 S 20738 |
J.200 (2001) Corrigendum 1 (05/04)
To be published...

Application for Interactive Digital Television

J.202 (05/03) Harmonization of procedural content formats for interactive TV applications
15pp E 24251 F 24252 S 24253 12 CHF

J.280 (03/04) Digital Program Insertion: Splicing application programming interface
39pp E 25597 22 CHF

Supplements to the Series J Recommendations

8pp E 15602 F 15603 S 15604 12 CHF

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:

K.2 (11/88) Withdrawn (10/96)
Protection of repeater power-feeding systems against interference from neighbouring electricity lines
Deleted after its content became technically out of date
Individually through the Electronic Bookshop:

K.3 (11/88) Withdrawn (10/96)
Interference caused by audio-frequency signals injected into a power distribution network
Deleted after its content became technically out of date
Individually through the Electronic Bookshop:

K.4 (11/88) Withdrawn (10/96)
Disturbance to signalling
Deleted after its content became technically out of date
Individually through the Electronic Bookshop:

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)  Withdrawn (12/03)
Protection of remote-feeding systems and line repeaters against lightning and interference from neighbouring electricity lines

This Recommendation was deleted on 2003-12-12 since its content has been incorporated in revised Recs K.44 and K.45 (07.2003)

Individually through the Electronic Bookshop: 20 CHF

K.16 (11/88)  Withdrawn (09/01)
Simplified calculation method for estimating the effect of magnetic induction from power lines on remote-fed repeaters in coaxial pair telecommunication systems

Rec. K.16 was withdrawn because it deals only with calculation methods contained in the "Directives – Volum II: Calculating induced voltages and currents in practical cases" without giving any limit

Individually through the Electronic Bookshop: 20 CHF

K.17 (11/88)  Withdrawn (12/03)
Tests on power-fed repeaters using solid-state devices in order to check the arrangements for protection from external interference

This Recommendation was deleted on 2003-12-12 since its content has been incorporated in revised Recs K.44 and K.45 (07.2003)

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 (07/03)  Resistibility of telecommunication equipment installed in a telecommunications centre to overvoltages and overcurrents

28pp  E 24586  F 24587  S 24588  17 CHF


K.21 (07/03)  Resistibility of telecommunication equipment installed in costumer premises to overvoltages and overcurrents

24pp  E 24589  F 24590  S 24591  17 CHF


K.22 (05/95)  Withdrawn (12/03)
Overvoltage resistibility of equipment connected to an ISDN T/S bus

This Recommendation was deleted on 2003-12-12 since its requirements have been incorporated in revised Rec K.21 (07.2003)

8pp  E 6350  F 6351  S 6352  8 CHF

K.23 (11/88)  Types of induced noise and description of noise voltage parameters for ISDN basic user networks

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

The content of this Recommendation has been superseded by ITU-T K.43 (1998) and K.48 (2000)

8pp  E 6347  F 6348  S 6349  8 CHF
K.54 (10/00) Conducted immunity test method and level at fundamental power frequencies
9pp E 19810 F 19811 S 19812 9 CHF

K.54 Erratum (08/02)

K.55 (08/02) Overvoltage and overcurrent requirements for insulation displacement connectors (IDC) terminations
20pp E 22745 F 22746 S 22747 12 CHF

K.56 (07/03) Protection of radio base stations against lightning discharges
32pp E 24782 F 24783 S 24784 17 CHF

K.57 (09/03) Protection measures for radio base stations sited on power line towers
64pp E 24804 F 24805 S 24806 29 CHF

K.58 (07/03) EMC, resistibility and safety requirements and procedures for co-located telecommunication installations
17pp E 24530 F 24531 S 24532 12 CHF

K.59 (07/03) EMC, resistibility and safety requirements and procedure for connection to unbundled cables
15pp E 24731 F 24732 S 24733 12 CHF

K.60 (07/03) Emission limits and test methods for telecommunication networks
18pp E 24521 F 24522 S 24523 12 CHF

K.61 (09/03) Guidance to measurement and numerical prediction of electromagnetic fields for compliance with human exposure limits for telecommunication installations
24pp E 24691 F 24692 S 24693 17 CHF

K.62 (02/04) System level radiated emissions compliance using mathematical modelling
26pp E 25554 17 CHF

K.63 (02/04) Maintaining the suitability of production telecommunications equipment to its intended electromagnetic environment

To be published...

K.64 (02/04) Safe working practices for outside equipment installed in particular environments
25pp E 25653 17 CHF

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

L.1 (11/88) Construction, installation and protection of telecommunication cables in public networks
Individually through the Electronic Bookshop: 20 CHF

L.2 (11/88) Impregnation of wooden poles
Individually through the Electronic Bookshop: 20 CHF

L.3 (11/88) Armouring of cables
Individually through the Electronic Bookshop: 20 CHF

L.4 (11/88) Aluminium cable sheaths
Individually through the Electronic Bookshop: 20 CHF

L.5 (11/88) Cable sheaths made of metals other than lead or aluminium
Individually through the Electronic Bookshop: 20 CHF

L.6 (11/88) Methods of keeping cables under gas pressure
The electronic copy of this Recommendation is freely available on ITU website
Individually through the Electronic Bookshop: 20 CHF

L.7 (11/88) Application of joint cathodic protection
Individually through the Electronic Bookshop: 20 CHF

L.8 (11/88) Corrosion caused by alternating current
Individually through the Electronic Bookshop: 20 CHF

L.9 (11/88) Methods of terminating metallic cable conductors
Individually through the Electronic Bookshop: 20 CHF

L.10 (12/02) Optical fibre cables for duct and tunnel application
20pp E 23335 F 23336 S 23337 12 CHF

L.11 (11/88) Joint use of tunnels by pipelines and telecommunication cables, and the standardization of underground duct plans
Individually through the Electronic Bookshop: 20 CHF
L.41 (05/00)  Maintenance wavelength on fibres carrying signals
12pp  E 19433  F 19434  S 19435  12 CHF

L.42 (05/03)  Extending optical fibre solutions into the access network
30pp  E 24991  F 24992  S 24993  17 CHF

L.43 (12/02)  Optical fibre cables for buried application
26pp  E 23422  F 23423  S 23424  17 CHF

L.44 (10/00)  Electric power supply for equipment installed as outside plant
40pp  E 19961  F 19962  S 19963  22 CHF

L.45 (10/00)  Minimizing the effect on the environment from the outside plant in telecommunication networks
15pp  E 19912  F 19913  S 19914  12 CHF

L.46 (10/00)  Protection of telecommunication cables and plant from biological attack
26pp  E 19863  F 19864  S 19865  17 CHF

L.47 (10/00)  Access facilities using hybrid fibre/copper networks
44pp  E 20006  F 20007  S 20008  17 CHF

L.48 (03/03)  Mini-trench installation technique
14pp  E 24146  F 24147  S 24148  12 CHF

L.49 (03/03)  Micro-trench installation technique
14pp  E 24451  F 24452  S 24453  9 CHF

L.50 (11/03)  Requirements for passive optical nodes: Optical distribution frames for central office environments
16pp  E 25057  F 25058  S 25059  12 CHF

L.51 (04/03)  Passive node elements for fibre optic networks – General principles and definitions for characterization and performance evaluation
28pp  E 24533  F 24534  S 24535  17 CHF

L.52 (05/03)  Deployment of Passive Optical Networks (PON)
19pp  E 25060  F 25061  S 25062  12 CHF

L.53 (05/03)  Optical fibre maintenance criteria for access networks
27pp  E 24361  F 24362  S 24363  17 CHF

L.54 (02/04)  Splice closures for marinized terrestrial cables (MTC)
17pp  E 25222  12 CHF

L.55 (11/03)  Digital database for marine cables and pipelines
24pp  E 25483  17 CHF

L.56 (05/03)  Installation of optical fibre cable along railways
13pp  E 24326  F 24327  S 24328  12 CHF

L.57 (05/03)  Air-assisted installation of optical fibre cables
12pp  E 24260  F 24261  S 24262  9 CHF

SERIES M

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

Introduction and general principles of maintenance and maintenance organization

M.10 (10/92)  Scope and application of Recommendations for maintenance of telecommunication networks and services
10pp  E 3519  F 3518  S 3520  11 CHF

M.15 (11/88)  Maintenance considerations for new systems

Individually through the Electronic Bookshop:  20 CHF

M.20 (10/92)  Maintenance philosophy for telecommunication networks
21pp  E 3375  F 3374  S 3376  15 CHF

M.21 (10/92)  Maintenance philosophy for telecommunication services
5pp  E 3378  F 3377  S 3379  8 CHF

M.32 (11/88)  Principles for using alarm information for maintenance of international transmission systems and equipment

Individually through the Electronic Bookshop:  20 CHF

M.34 (11/88)  Performance monitoring on international transmission systems and equipment

Individually through the Electronic Bookshop:  20 CHF

M.35 (11/88)  Principles concerning line-up and maintenance limits

Individually through the Electronic Bookshop:  20 CHF
Use of telecommunication terms for maintenance

For their dealings with their colleagues in other countries, personnel at operation centres and other maintenance units should refer to Fascicle I.3, 'Terms and Definitions', of Volume I of the Blue Book. For maintenance technology, the definitions given in Recommendation M.60 are preferred.

Individually through the Electronic Bookshop:

M.50 (11/88) Use of telecommunication terms for maintenance
For their dealings with their colleagues in other countries, personnel at operation centres and other maintenance units should refer to Fascicle I.3, 'Terms and Definitions', of Volume I of the Blue Book. For maintenance technology, the definitions given in Recommendation M.60 are preferred.

Individually through the Electronic Bookshop:

M.60 (03/93) Maintenance terminology and definitions
64pp E 4395 F 4394 S 4396 24 CHF

M.70 (11/88) Guiding principles on the general maintenance organization for telephone-type international circuits
Individually through the Electronic Bookshop: 20 CHF

M.75 (10/92) Technical service
2pp E 3332 F 3331 S 3333 8 CHF

M.80 (11/88) Control stations
Individually through the Electronic Bookshop: 20 CHF

M.85 (10/92) Fault report points
2pp E 3423 F 3422 S 3424 8 CHF

M.90 (11/88) Sub-control stations
Individually through the Electronic Bookshop: 20 CHF

M.100 (11/88) Service circuits
Individually through the Electronic Bookshop: 20 CHF

M.110 (11/88) Circuit testing
Individually through the Electronic Bookshop: 20 CHF

M.120 (11/88) Access points for maintenance
Individually through the Electronic Bookshop: 20 CHF

M.125 (11/88) Digital loopback mechanisms
Individually through the Electronic Bookshop: 20 CHF

M.160 (11/88) Stability of transmission
Individually through the Electronic Bookshop: 20 CHF

International transmission systems

M.320 (11/88) Numbering of the channels in a group
Individually through the Electronic Bookshop: 20 CHF

M.330 (11/88) Numbering of groups within a supergroup
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M.340 (11/88) Numbering of supergroups within a mastergroup
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M.350 (11/88) Numbering of mastergroups within a supermastergroup
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M.380 (11/88) Numbering in coaxial systems
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M.390 (11/88) Numbering in systems on symmetric pair cable
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M.400 (11/88) Numbering in radio-relay links or open-wire line systems
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M.410 (11/88) Numbering of digital blocks in transmission systems
Individually through the Electronic Bookshop: 20 CHF

M.450 (11/88) Bringing a new international transmission system into service
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M.460 (11/88) Bringing international group, supergroup, etc., links into service
Individually through the Electronic Bookshop: 20 CHF

M.470 (11/88) Setting up and lining up analogue channels for international telecommunication services
Individually through the Electronic Bookshop: 20 CHF

M.475 (11/88) Setting up and lining up mixed analogue/digital channels for international telecommunication services
Individually through the Electronic Bookshop: 20 CHF

M.495 (11/88) Transmission restoration and transmission route diversity: Terminology and general principles
Individually through the Electronic Bookshop: 20 CHF

M.496 (11/88) Functional organization for automatic transmission restoration
Individually through the Electronic Bookshop: 20 CHF

M.500 (11/88) Routine maintenance measurements to be made on regulated line sections
Individually through the Electronic Bookshop: 20 CHF

M.510 (11/88) Readjustment to the nominal value of a regulated line section (on a symmetric pair line, a coaxial line or a radio-relay link)
Individually through the Electronic Bookshop: 20 CHF

M.520 (11/88) Routine maintenance on international group, supergroup, etc., links
Individually through the Electronic Bookshop: 20 CHF
M.525 (11/88) Automatic maintenance procedures for international group, supergroup, etc., links
   Individually through the Electronic Bookshop: 20 CHF

M.530 (11/88) Readjustment to the nominal value of an international group, supergroup, etc., link
   Individually through the Electronic Bookshop: 20 CHF

M.535 (11/88) Special maintenance procedures for multiple destination, unidirectional (MU) group and supergroup links
   Individually through the Electronic Bookshop: 20 CHF

M.540 (11/88) Routine maintenance of carrier and pilot generating equipment
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M.556 (11/88) Setting up and initial testing of digital channels on an international digital path or block
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International telephone circuits

M.560 (11/88) International telephone circuits – Principles, definitions and relative transmission levels
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M.562 (11/88) Types of circuit and circuit section
   Individually through the Electronic Bookshop: 20 CHF

M.565 (11/88) Access points for international telephone circuits
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M.570 (11/88) Constitution of the circuit; preliminary exchange of information
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M.580 (11/88) Setting up and lining up an international circuit for public telephony
   Individually through the Electronic Bookshop: 20 CHF

M.585 (11/88) Bringing an international digital circuit into service
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M.590 (11/88) Setting up and lining up a circuit fitted with a compandor
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M.600 (11/88) Organization of routine maintenance measurements on circuits
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M.565 (11/88) Routine maintenance schedule for international public telephony circuits
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M.610 (11/88) Periodicity of maintenance measurements on circuits
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M.620 (11/88) Methods for carrying out routine measurements on circuits
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M.630 (11/88) Maintenance of circuits using control chart methods
   Individually through the Electronic Bookshop: 20 CHF

M.650 (11/88) Routine line measurements to be made on the line repeaters of audio-frequency sections or circuits
   Individually through the Electronic Bookshop: 20 CHF

   Individually through the Electronic Bookshop: 20 CHF

M.665 (11/88) Testing of echo cancellers
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M.670 (11/88) Maintenance of a circuit fitted with a compandor
   Individually through the Electronic Bookshop: 20 CHF

M.675 (11/88) Lining up and maintaining international demand assignment circuits (SPADE)
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M.710 (11/88) Performance monitoring on international transmission systems and equipment
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M.715 (11/88) Fault report point (circuit)
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M.716 (11/88) Fault report point (network)
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M.717 (11/88) Testing point (transmission)
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M.718 (11/88) Testing point (line signalling)
   Individually through the Electronic Bookshop: 20 CHF

M.719 (11/88) Testing point (switching and interregister signalling)
   Individually through the Electronic Bookshop: 20 CHF
<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Location</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.720 (11/88)</td>
<td>Network analysis point</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
<tr>
<td>M.721 (11/88)</td>
<td>System availability information point</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
<tr>
<td>M.722 (11/80)</td>
<td>Network management point</td>
<td>Electronic Bookshop only</td>
<td>20 CHF</td>
</tr>
<tr>
<td>M.723 (11/88)</td>
<td>Circuit control station</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
<tr>
<td>M.724 (11/88)</td>
<td>Circuit sub-control station</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
<tr>
<td>M.725 (11/88)</td>
<td>Restoration control point</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
<tr>
<td>M.726 (11/88)</td>
<td>Maintenance organization for the wholly digital automatic and semi-automatic telephone service</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
<tr>
<td>M.729 (11/88)</td>
<td>Organization of the maintenance of international public switched telephone circuits used for data transmission</td>
<td>This Recommendation is also included but not published in V series under alias number V.51</td>
<td>20 CHF</td>
</tr>
<tr>
<td>M.730 (11/88)</td>
<td>Maintenance methods</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
<tr>
<td>M.731 (11/88)</td>
<td>Subjective testing</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
<tr>
<td>M.732 (11/88)</td>
<td>Signalling and switching routine maintenance tests and measurements</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
<tr>
<td>M.733 (11/88)</td>
<td>Transmission routine maintenance measurements on automatic and semi-automatic telephone circuits</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
<tr>
<td>M.734 (11/88)</td>
<td>Exchange of information on incoming test facilities at international switching centres</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
<tr>
<td>M.760 (11/88)</td>
<td>Transfer link for common channel Signalling System No. 6</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
<tr>
<td>M.762 (11/88)</td>
<td>Maintenance of common channel Signalling System No. 6</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
</tbody>
</table>

**Common channel signalling systems**

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Location</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.800 (11/88)</td>
<td>Use of circuits for voice-frequency telegraphy</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
<tr>
<td>M.810 (11/88)</td>
<td>Setting up and lining up an international voice-frequency telegraph link for public telegraph circuits (for 50, 100 and 200 baud modulation rates)</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
<tr>
<td>M.820 (11/88)</td>
<td>Periodicity of routine tests on international voice-frequency telegraph links</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
<tr>
<td>M.830 (11/88)</td>
<td>Routine measurements to be made on international voice-frequency telegraph links</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
<tr>
<td>M.850 (11/88)</td>
<td>International time division multiplex (TDM) telegraph systems</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
<tr>
<td>M.880 (11/88)</td>
<td>International phototelegraph transmission</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
</tbody>
</table>

**International leased group and supergroup links**

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Location</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.900 (11/88)</td>
<td>Use of leased group and supergroup links for wide-spectrum signal transmission (data, facsimile, etc.)</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
<tr>
<td>M.910 (11/88)</td>
<td>Setting up and lining up an international leased group link for wide-spectrum signal transmission</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
</tbody>
</table>

**International leased circuits**

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Location</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.1010 (11/88)</td>
<td>Constitution and nomenclature of international leased circuits</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
<tr>
<td>M.1012 (11/88)</td>
<td>Circuit control station for leased and special circuits</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
<tr>
<td>M.1013 (11/88)</td>
<td>Sub-control station for leased and special circuits</td>
<td>Individually through the Electronic Bookshop:</td>
<td>20 CHF</td>
</tr>
</tbody>
</table>
M.1014 (11/88)  Transmission maintenance point (international line) (TMP-IL)
Individually through the Electronic Bookshop: 20 CHF

M.1015 (11/88)  Types of transmission on leased circuits
Individually through the Electronic Bookshop: 20 CHF

M.1016 (11/88)  Assessment of the service availability performance of international leased circuits
Individually through the Electronic Bookshop: 20 CHF

M.1020 (03/93)  Characteristics of special quality international leased circuits with special bandwidth conditioning
6pp  E 5173  F 5228  S 5263  8 CHF

M.1025 (03/93)  Characteristics of special quality international leased circuits with basic bandwidth conditioning
6pp  E 5375  F 5376  S 5376  8 CHF

M.1030 (11/88)  Characteristics of ordinary quality international leased circuits forming part of private switched telephone networks
Individually through the Electronic Bookshop: 20 CHF

M.1040 (11/88)  Characteristics of ordinary quality international leased circuits
Individually through the Electronic Bookshop: 20 CHF

M.1045 (05/96)  Preliminary exchange of information for the provision of international leased circuits and international data transmission systems
8pp  E 7247  F 7248  S 7249  9 CHF

M.1050 (06/98)  Lining up an international point-to-point leased circuit with analogue presentation to the user
16pp  E 13942  F 13943  S 13944  12 CHF

M.1055 (11/88)  Lining up an international multiterminal leased circuit
Individually through the Electronic Bookshop: 20 CHF

M.1060 (11/88)  Maintenance of international leased circuits
Individually through the Electronic Bookshop: 20 CHF

Mobile telecommunication systems and services

M.1130 (10/92)  General definitions and general principles of operation/maintenance procedures to be used in satellite mobile systems
2pp  E 3292  F 3291  S 3293  8 CHF

M.1140 (10/92)  Maritime mobile telecommunication services via satellite
Replaces M.1100, M.1110, M.1120
12pp  E 3426  F 3425  S 3427  11 CHF

M.1150 (04/97)  Maintenance aspects of maritime/land mobile telecommunication store-and-forward services (packet mode) via satellite
12pp  E 11805  F 11806  S 11807  12 CHF

M.1160 (04/97)  Maintenance aspects of aeronautical mobile telecommunication service via satellite
12pp  E 11808  F 11809  S 11810  12 CHF

M.1170 (04/97)  Maintenance aspects of mobile digital telecommunication service via satellite
12pp  E 11732  F 11733  S 11734  12 CHF

International public telephone network

M.1230 (05/96)  Method to improve the management of operations and maintenance processes in the International Telephone Network
16pp  E 7430  F 7431  S 7432  12 CHF

M.1235 (11/88)  Use of automatically generated test calls for assessment of network performance
Individually through the Electronic Bookshop: 20 CHF

International data transmission systems

M.1300 (10/97)  Maintenance of international data transmission systems operating in the range 2.4 kbit/s to 140 Mbit/s
16pp  E 12397  F 12398  S 12399  12 CHF

M.1301 (01/01)  General description and operational procedures for international SDH leased circuits
32pp  E 20437  F 20438  S 20439  17 CHF

M.1320 (11/88)  Numbering of channels in data transmission systems
Individually through the Electronic Bookshop: 20 CHF

M.1340 (02/00)  Performance objectives, allocations and limits for international PDH leased circuits and supporting data transmission links and systems
28pp  E 18184  F 18186  S 18187  17 CHF

M.1340 (2000) Corrigendum 1 (08/01)
### Setting up, lining up and characteristics of international data transmission systems operating in the range 2.4 kbit/s to 14.4 kbit/s

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Pages</th>
<th>Language Codes</th>
<th>Price</th>
</tr>
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<tbody>
<tr>
<td>M.1350 (11/88)</td>
<td>Setting up, lining up and characteristics of international data transmission systems operating in the range 2.4 to 14.4 kbit/s</td>
<td>14</td>
<td>E 13598 F 13599 S 13600</td>
<td>12 CHF</td>
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Individually through the Electronic Bookshop: 20 CHF

### Maintenance of international data transmission systems operating in the range 2.4 to 14.4 kbit/s

<table>
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<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Pages</th>
<th>Language Codes</th>
<th>Price</th>
</tr>
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<tbody>
<tr>
<td>M.1355 (11/88)</td>
<td>Maintenance of international data transmission systems operating in the range 2.4 to 14.4 kbit/s</td>
<td>14</td>
<td>E 13598 F 13599 S 13600</td>
<td>12 CHF</td>
</tr>
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</table>

### Bringing-into-service of international data transmission systems

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Pages</th>
<th>Language Codes</th>
<th>Price</th>
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<tr>
<td>M.1370 (06/98)</td>
<td>Bringing-into-service of international data transmission systems</td>
<td>12</td>
<td>E 13598 F 13599 S 13600</td>
<td>12 CHF</td>
</tr>
<tr>
<td>M.1375 (06/98)</td>
<td>Maintenance of international data transmission systems</td>
<td>16</td>
<td>E 13709 F 13710 S 13711</td>
<td>12 CHF</td>
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### Bringing-into-service of international leased circuits that are supported by international data transmission systems

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Pages</th>
<th>Language Codes</th>
<th>Price</th>
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<tr>
<td>M.1380 (02/00)</td>
<td>Bringing-into-service of international leased circuits that are supported by international data transmission systems</td>
<td>12</td>
<td>E 18940 F 18941 S 18942</td>
<td>12 CHF</td>
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<tr>
<td>M.1385 (02/00)</td>
<td>Maintenance of international leased circuits that are supported by international data transmission systems</td>
<td>12</td>
<td>E 19123 F 19124 S 19125</td>
<td>12 CHF</td>
</tr>
</tbody>
</table>

### Designations and information exchange

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Pages</th>
<th>Language Codes</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.1400 (10/01)</td>
<td>Designations for interconnections among operators’ networks</td>
<td>136</td>
<td>E 21764 F 21765 S 21766</td>
<td>55 CHF</td>
</tr>
<tr>
<td>M.1400 (01/04)</td>
<td>Designations for interconnections among operators’ networks</td>
<td>134</td>
<td>E 25252</td>
<td>55 CHF</td>
</tr>
<tr>
<td>M.1400 (2001) Amendment 1 (05/02)</td>
<td>Amendment to the Introduction of Revised Recommendation M.1400</td>
<td>10</td>
<td>E 22261 F 22262 S 22263</td>
<td>9 CHF</td>
</tr>
<tr>
<td>M.1510 (10/92)</td>
<td>Exchange of contact point information for the maintenance of international services and the international network</td>
<td>10</td>
<td>E 3480 F 3479 S 3481</td>
<td>11 CHF</td>
</tr>
<tr>
<td>M.1520 (10/92)</td>
<td>Standardized information exchange between Administrations</td>
<td>9</td>
<td>E 3510 F 3509 S 3511</td>
<td>11 CHF</td>
</tr>
</tbody>
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### Network maintenance information

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Pages</th>
<th>Language Codes</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.1530 (03/99)</td>
<td>Network maintenance information</td>
<td>12</td>
<td>E 15781 F 15782 S 15783</td>
<td>12 CHF</td>
</tr>
<tr>
<td>M.1532 (02/00)</td>
<td>Network maintenance service performance agreement (MSPA)</td>
<td>24</td>
<td>E 19379 F 19380 S 19381</td>
<td>17 CHF</td>
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### Performance limits for bringing-into-service and maintenance of international multi-operator PDH paths and connections

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Pages</th>
<th>Language Codes</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.2100 (04/03)</td>
<td>Performance limits for bringing-into-service and maintenance of international multi-operator PDH paths and connections</td>
<td>50</td>
<td>E 24367 F 24368 S 24369</td>
<td>22 CHF</td>
</tr>
</tbody>
</table>

### Performance limits for bringing-into-service and maintenance of international multi-operator SDH paths and multiplex sections

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Pages</th>
<th>Language Codes</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.2101 (06/03)</td>
<td>Performance limits for bringing-into-service and maintenance of international multi-operator SDH paths and multiplex sections</td>
<td>53</td>
<td>E 24617 F 24618 S 24619</td>
<td>29 CHF</td>
</tr>
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</table>

### Maintenance thresholds and procedures for recovery mechanisms (protection and restoration) of international SDH VC trails (paths) and multiplex sections

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Pages</th>
<th>Language Codes</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.2102 (02/00)</td>
<td>Maintenance thresholds and procedures for recovery mechanisms (protection and restoration) of international SDH VC trails (paths) and multiplex sections</td>
<td>24</td>
<td>E 19602 F 19603 S 19604</td>
<td>17 CHF</td>
</tr>
</tbody>
</table>

### Bringing-into-service international multi-operator paths, sections and transmission systems

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Pages</th>
<th>Language Codes</th>
<th>Price</th>
</tr>
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<tbody>
<tr>
<td>M.2110 (07/02)</td>
<td>Bringing-into-service international multi-operator paths, sections and transmission systems</td>
<td>16</td>
<td>E 22897 F 22898 S 22899</td>
<td>12 CHF</td>
</tr>
</tbody>
</table>
M.2120 (07/02)  International multi-operator paths, sections and transmission systems fault detection and localization procedures
18pp  E 22732  F 22733  S 22734  12 CHF

M.2130 (02/00)  Operational procedures for the maintenance of the transport network
20pp  E 19570  F 19571  S 19572  17 CHF

M.2140 (02/00)  Transport network event correlation
32pp  E 19727  F 19728  S 19729  17 CHF

M.2201 (03/01)  Performance objectives, allocations and limits for international ATM permanent and semi-permanent virtual path and virtual path connection
30pp  E 20764  F 20765  S 20766  17 CHF

M.2301 (07/02)  Performance objectives and procedures for provisioning and maintenance of IP-based networks
26pp  E 22906  F 22907  S 22908  17 CHF

M.2401 (12/03)  Error performance limits and procedures for bringing-into-service and maintenance of multi-operator international paths and sections within an optical transport network
18pp  E 24974  F 24975  S 24976  12 CHF

Telecommunications management network

M.3000 (02/00)  Overview of TMN Recommendations
32pp  E 18601  F 18602  S 18603  17 CHF

M.3010 (02/00)  Principles for a Telecommunications management network
40pp  E 18328  F 18329  S 18330  17 CHF

Telecommunications management network

M.3010 (2000) Amendment 1 (12/03)  TMN conformance and TMN compliance
12pp  E 24948  F 24949  S 24950  9 CHF

Telecommunications management network

M.3013 (02/00)  Considerations for a telecommunications management network
52pp  E 18260  F 18261  S 18262  29 CHF

M.3016 (06/98)  TMN security overview
16pp  E 13712  F 13713  S 13714  17 CHF

M.3017 (06/03)  Framework for the integrated management of hybrid circuit/packet networks
32pp  E 24684  F 24685  S 24686  17 CHF

Telecommunications management network

M.3020 (02/00)  TMN Interface Specification Methodology
36pp  E 19477  F 19478  S 19479  22 CHF

M.3030 (08/02)  Telecommunications Markup Language (tML) framework
36pp  E 23170  F 23171  S 23172  17 CHF

M.3100 (07/95)  Generic network information model
100pp  E 6662  F 6663  S 6664  15 CHF

M.3100 (1995) Amendment 1 (03/99)
80pp  E 16129  F 16130  S 16131  34 CHF

M.3100 (1995) Amendment 2 (02/00)  Enhancement of M.3100
20pp  E 19445  F 19446  S 19447  17 CHF

M.3100 (1995) Amendment 3 (01/01)  Definition of the management interface for a generic alarm reporting control (ARC) feature
44pp  E 20587  F 20588  S 20589  22 CHF

24pp  E 21815  F 21816  S 21817  17 CHF

M.3100 (1995) Amendment 5 (08/01)  Enhanced cross-connect model
20pp  E 21874  F 21875  S 21876  12 CHF

M.3100 (1995) Amendment 6 (03/03)
17pp  E 23919  F 23920  S 23921  12 CHF

Telecommunications management network

M.3100 (1995) Amendment 7 (12/03)
12pp  E 25249  9 CHF

M.3100 (1995) Corrigendum 1 (06/98)

M.3100 (1995) Corrigendum 2 (01/01)

M.3100 (1995) Corrigendum 3 (08/01)

M.3101 (07/95)  Managed object conformance statements for the generic network information model
100pp  E 6297  F 6298  S 6299  39 CHF
M.3108 TMN management services for dedicated and reconfigurable circuits network

M.3108.1 (03/99) TMN management services for dedicated and reconfigurable circuits network: Information model for management of leased circuit and reconfigurable services
88pp E 16138 F 16139 S 16140 39 CHF

M.3108.1 (1999) 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 (2001) Amendment 1 (05/02) Protection Switching
34pp E 22414 F 22415 S 22416 17 CHF

M.3120 (2001) Amendment 2 (03/03)
26pp E 23897 F 23898 S 23899 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

M.3208 TMN management services for dedicated and reconfigurable circuits network

M.3208.1 (10/97) Leased circuit services
92pp E 12556 F 12557 S 12558 39 CHF

M.3208.1 (1997) Corrigendum 1 (02/00)

M.3208.2 (03/99) Connection management of preprovisioned service link connections to form a leased circuit service
40pp E 15958 F 15959 S 15960 22 CHF

M.3208.2 (1999) 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

Telecommunications management network

M.3341 (12/03) Requirements for QoS/SLA management over the TMN X-interface for IP-based services
28pp E 25551 F 25552 S 25553 17 CHF

Telecommunications management network

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

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**SERIES N**

**Maintenance: international sound programme and television transmission circuits**

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**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

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:

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

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.53
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.

O.82 (11/88) Group-delay measuring equipment for the range 5 to 600 kHz

Individually through the Electronic Bookshop: 20 CHF

O.91 (11/88) Phase jitter measuring equipment for telephone-type circuits

Individually through the Electronic Bookshop: 20 CHF

O.95 (11/88) Phase and amplitude hit counters for telephone-type circuits

Individually through the Electronic Bookshop: 20 CHF

O.111 (11/88) Frequency shift measuring equipment for use on carrier channels

Individually through the Electronic Bookshop: 20 CHF

Equipment for the measurement of digital and analogue/digital parameters

O.131 (11/88) Quantizing distortion measuring equipment using a pseudo-random noise test signal

Individually through the Electronic Bookshop: 20 CHF

O.132 (11/88) Quantizing distortion measuring equipment using a sinusoidal test signal

Individually through the Electronic Bookshop: 20 CHF

O.133 (03/93) Equipment for measuring the performance of PCM encoders and decoders

26pp E 5062 F 5061 S 5063 15 CHF

O.150 (05/96) General requirements for instrumentation for performance measurements on digital transmission equipment

20pp E 9625 F 9626 S 9627 17 CHF

O.150 (1996) Corrigendum 1 (05/02)

O.151 (10/92) Error performance measuring equipment operating at the primary rate and above

5pp E 3417 F 3416 S 3418 8 CHF

O.151 (1992) Corrigendum 1 (05/02)

O.152 (10/92) Error performance measuring equipment for bit rates of 64 kbit/s and N x 64 kbit/s

4pp E 3360 F 3359 S 3361 8 CHF

O.153 (10/92) Basic parameters for the measurement of error performance at bit rates below the primary rate

6pp E 3363 F 3362 S 3364 8 CHF

O.161 (11/88) In-service code violation monitors for digital systems

Individually through the Electronic Bookshop: 20 CHF

O.162 (10/92) Equipment to perform in-service monitoring on 2048, 8448, 34 368 and 139 264 kbit/s signals

7pp E 3546 F 3545 S 3547 8 CHF

O.163 (11/88) Equipment to perform in-service monitoring on 1544 kbit/s signals

Individually through the Electronic Bookshop: 20 CHF

O.171 (04/97) Timing jitter and wander measuring equipment for digital systems which are based on the plesiochronous digital hierarchy (PDH)

32pp E 11780 F 11781 S 11782 17 CHF

O.172 (03/01) Jitter and wander measuring equipment for digital systems which are based on the synchronous digital hierarchy (SDH)

52pp E 20616 F 20617 S 20617 22 CHF

O.172 (2001) Amendment 1 (03/03) Jitter and wander measuring equipment for digital systems which are based on the synchronous digital hierarchy (SDH) Amendment 1

16pp E 23968 F 23969 S 23970 12 CHF

Equipment for the measurement of analogue parameters

O.173 (03/03) Jitter measuring equipment for digital systems which are based on the Optical Transport Network (OTN)

16pp E 23922 F 23923 S 23924 12 CHF

Equipment for the measurement of digital and analogue/digital parameters

O.181 (05/02) Equipment to assess error performance on STM-N interfaces

44pp E 22354 F 22355 S 22356 22 CHF

O.191 (02/00) Equipment to measure the cell transfer performance of ATM connections

72pp E 18055 F 18056 S 18057 34 CHF

O.201 (07/03) Q-factor test equipment to estimate the transmission performance of optical channels

29pp E 24734 F 24735 S 24736 17 CHF
SERIES P
Telephone transmission quality, telephone installations, local line networks

Vocabulary and effects of transmission parameters on customer opinion of transmission quality

P.10 (12/98)  Vocabulary of terms on telephone transmission quality and telephone sets
36pp  E 15511  F 15512  S 15513  22 CHF

10pp  E 24761  9 CHF

P.11 (03/93)  Effect of transmission impairments
32pp  E 4955  F 4954  S 4956  15 CHF

P.16 (11/88)  Subjective effects of direct crosstalk; thresholds of audibility and intelligibility
Individually through the Electronic Bookshop: 20 CHF

Subscribers’ lines and sets

P.32 (11/88)  Evaluation of the efficiency of telephone booths and acoustic hoods
Individually through the Electronic Bookshop: 20 CHF

P.33 (11/88)  Withdrawn (09/97)
Subscriber telephone sets containing either loudspeaking receivers or microphones associated with amplifiers

Deleted after the relevant information contained in this Recommendation was incorporated in new ITU-T P.340

Individually through the Electronic Bookshop:

P.38 (03/93)  Transmission characteristics of operator telephone systems (OTS)
2pp  E 4314  F 4313  S 4315  8 CHF

Transmission standards

P.48 (11/88)  Specification for an intermediate reference system
Individually through the Electronic Bookshop: 20 CHF

Objective measuring apparatus

P.50 (09/99)  Artificial voices
Covering note, May 2000: Erratum
20pp  E 17581  F 17582  S 17583  17 CHF

P.50 Appendix I (02/98)  Test signals
This Appendix includes an electronic attachment containing the speech database for telephonometry applications. Due to volume constraints, this database is only available on CD-ROM. The text of the appendix remains freely available on the ITU website for information purposes
62pp  E 14057  F 14058  S 14059  29 CHF

Objective measuring apparatus

P.50 Erratum (05/00)  Erratum to Recommendation ITU-T P.50 (09/99)

Objective measuring apparatus

P.51 (08/96)  Artificial mouth
12pp  E 9874  F 9875  S 9876  12 CHF

P.52 (03/93)  Volume meters
3pp  E 4275  F 4274  S 4276  8 CHF

P.53 (10/94)  Psophometer for use on telephone-type circuits
This Recommendation is published under alias number 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
34pp  E 23108  F 23109  S 23110  17 CHF

P.58 (08/96)  Head and torso simulator for telephonometry
36pp  E 9654  F 9655  S 9656  22 CHF

P.58 Erratum 1 (01/03)
1pp  E 108203  9 CHF

P.59 (03/93)  Artificial conversational speech
4pp  E 4584  F 4583  S 4585  8 CHF
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) Withdrewn (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) Withdrewn (09/97)**
Methods for the evaluation of transmission quality on the basis of objective measurements

*As this Recommendation didn’t contain technical description, but only references to other out of date Recommendations and Supplements, it became obsolete and was deleted*

*Individually through the Electronic Bookshop:*

**P.64 (09/99)** Determination of sensitivity/frequency characteristics of local telephone systems

*Covering note, May 2000: Erratum*
28pp E 17464 F 17465 S 17466 17 CHF

**P.64 Erratum (05/00)** Erratum to Recommendation ITU-T P.64 (09/99)

**P.65 (03/93) Withdrewn (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) Withdrewn (08/96)**
Methods for evaluating the transmission performance of digital telephone sets

*Deleted after having been merged with P.31 into ITU-T P.310*

Measurements related to speech loudness

**P.75 (11/88)** Standard conditioning method for handsets with carbon microphones

*Individually through the Electronic Bookshop: 20 CHF*

**P.76 (11/88)** Determination of loudness ratings; fundamental principles

*Individually through the Electronic Bookshop: 20 CHF*

**P.78 (02/96)** Subjective testing method for determination of loudness ratings in accordance with Recommendation P.76

20pp E 7209 F 7210 S 7211 17 CHF

**P.79 (09/99)** Calculation of loudness ratings for telephone sets

*Covering note, May 2000: Erratum*

*Covering note, 24 October 2000: Corrigendum 1*
36pp E 17584 F 17585 S 17586 22 CHF

**P.79 Annex G (11/01)** Wideband loudness rating algorithm

8pp E 22188 F 22189 S 22190 9 CHF

**P.79 (1999) Corrigendum 1 (10/00)**

**P.79 (1999) Corrigendum 2 (05/01)**

**P.79 Erratum 1 (05/00)**

Erratum to Recommendation ITU-T P.79 (09/99)

Methods for objective and subjective assessment of quality

**P.80/P.800 (08/96)** Methods for subjective determination of transmission quality

*Former Rec. P.80*

**P.82 (11/88)** Method for evaluation of service from the standpoint of speech transmission quality

*Individually through the Electronic Bookshop: 20 CHF*

**P.85 (06/94)** A method for subjective performance assessment of the quality of speech voice output devices

9pp E 5585 F 5584 S 5586 11 CHF

Subscribers’ lines and sets

**P.300 (11/01)** Transmission performance of group audio terminals (GATs)

20pp E 21681 F 21682 S 21683 12 CHF

Subscribers’ lines and sets

**P.310 (03/03)** Transmission characteristics for telephone band (300-3400 Hz) digital telephones

31pp E 24263 F 24264 S 24265 17 CHF

**P.311 (02/98)** Transmission characteristics for wideband (150-7000 Hz) digital handset telephones

20pp E 13191 F 13192 S 13193 17 CHF

**P.313 (09/99)** Transmission characteristics for cordless and mobile digital terminals

24pp E 17593 F 17594 S 17595 17 CHF

**P.330 (03/03)** Speech processing devices for acoustic enhancement

18pp E 24149 F 24150 S 24151 12 CHF
P.330 (2003) Amendment 1 (09/03)
1pp E 24551 F 24552 S 24553 9 CHF

P.340 (05/00) Transmission characteristics of hands-free telephones
44pp E 19665 F 19666 S 19667 22 CHF

P.340 (2000) Corrigendum 1 (03/04)
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.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

P.380 (11/03) Electro-acoustic measurements on headsets
12pp E 24825 9 CHF

Objective measuring apparatus
P.501 (05/00) Test signals for use in telephonometry
This Recommendation includes an electronic attachment containing test signals for telephonometry 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
64pp 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
56pp E 23154 F 23155 S 23156 29 CHF

Objective measuring apparatus
P.562 (05/00) Analysis and interpretation of INMD voice-services measurements
58pp 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/P.80 (08/96) Methods for subjective determination of transmission quality
Former Rec. P.80
36pp E 9713 F 9714 S 9715 22 CHF

P.800.1 (03/03) Mean Opinion Score (MOS) terminology
10pp E 23960 F 23961 S 23962 9 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

Methods for objective and subjective assessment of quality

P.835 (11/03) Subjective test methodology for evaluating speech communication systems that include noise suppression algorithm
18pp    E 24822    12 CHF

P.840 (11/03) Subjective listening test method for evaluating circuit multiplication equipment
Former ITU-T P.84
31pp    E 24907    17 CHF

P.851 (11/03) Subjective quality evaluation of telephone services based on spoken dialogue systems
35pp    E 25174    17 CHF

Methods for objective and subjective assessment of quality

P.861 (02/98) Withdrawn (07/01)
Objective quality measurement of telephone-band (300-3400 Hz) speech codecs
P.861 was recognized as having certain limitations in specific areas of application. It was replaced by P.862, which contains an improved objective speech quality assessment algorithm. P.861 included one diskette containing test vectors for implementation verification of the PSQM algorithm
40pp    E 13580    F 13581    S 13582    62 CHF

Methods for objective and subjective assessment of quality

P.862 (02/01) Perceptual evaluation of speech quality (PESQ), an objective method for end-to-end speech quality assessment of narrowband telephone networks and speech codecs
30pp    E 22134    F 22135    S 22136    67 CHF

Methods for objective and subjective assessment of quality

P.862 (2001) Amendment 1 (03/03) Revised Annex A: Source code for the reference implementation and conformance tests
E 24393    F 24394    S 24395    62 CHF

Supplements to the Series P Recommendations

Suppl. 10 (11/88) Considerations relating to transmission characteristics for analogue handset telephones
20 CHF

Suppl. 16 (11/88) Guidelines for placement of microphones and loudspeakers in telephone conference rooms [1] and for Group Audio Terminals (GATs)
20 CHF

Suppl. 20 (03/93) Examples of measurements of handset receive-frequency responses: dependence on earcap leakage losses
5pp    E 4844    F 4843    S 4845    8 CHF
**Suppl. 23 (02/98) ITU-T coded-speech database**

This Supplement includes 3 CD-ROMs containing the ITU-T coded speech database for 8 kbit/s codec tests. Due to the quantity of data, this publication is only available on CD-ROM. The text of the Supplement is freely available on ITU website for information purposes.

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Language Code</th>
<th>Price (CHF)</th>
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<tbody>
<tr>
<td>10pp</td>
<td>E 14061</td>
<td>F 14062</td>
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**SERIES Q**

**Switching and signalling**

**Suppl. 9 (04/04) Technical Report TRQ.2000:**
Roadmap for the TRQ.2xxx-series Technical Reports

27pp E 25240 17 CHF

**Suppl. 42 (03/04) Technical Report TRQ.2402:**
Transport control signalling requirements – Signalling requirements for AAL type 2 Link control Capability Set 3

To be published...

**Suppl. 43 (03/04) Technical Report TRQ.2415:**
Transport control signalling requirements – Signalling requirements for IP connection control in radio access networks Capability Set 1

To be published...

**Suppl. 44 (03/04) Technical Report TRQ.2800:**
Transport control signalling requirements – Signalling requirements for AAL type 2 to IP interworking Capability Set 1

To be published...

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Requirements for interworking BICC/ISUP network with originating/destination networks based on Session Initiation Protocol and Session Description Protocol

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**Suppl. 46 (03/04) Technical Report TRQ.2830:**
ATM-MPLS network interworking signalling requirements

22pp E 24512 F 24513 S 24514 17 CHF

**Suppl. 47 (03/04) Emergency services for IMT-2000 networks – Requirements for harmonization and convergence**

12pp E 24848 F 24849 9 CHF

**Suppl. 48 (04/04) Guideline document for specifying API/object interface between network control and application layer**

13pp E 25447 12 CHF

**Suppl. 49 (04/04) Technical Report TRQ.2840:**
Signalling requirements to support IP telephony

To be published...

**Suppl. 50 (04/04) Technical Report TRQ.2145:**
Requirements for a Narrowband Signalling Syntax (NSS)

To be published...

**International automatic and semi-automatic working**

**Basic Recommendations**

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**Q.2 (11/88) Signal receivers for automatic and semi-automatic working, used for manual working**

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**Q.8 (11/88) Signalling systems to be used for international manual and automatic working on analogue leased circuits**

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Q.9 (11/88)  Vocabulary of switching and signalling terms
Individually through the Electronic Bookshop: 39 CHF

Numbering plan and dialling procedures in the international service

Q.10 (11/88)  Withdrawn (03/93)
Definitions relating to national and international numbering plans
Deleted Q.10 was an extract of ITU-T E.160. E.160 was later replaced by ITU-T E.164
Individually through the Electronic Bookshop:

Q.11ter (11/88)  Withdrawn (03/93)
Timetable for coordinated implementation of the full capability of the numbering plan for the ISDN era (Recommendation E.164)
Q.11ter 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.11bis 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

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
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Q.14 (11/88)  Means to control the number of satellite links in an international telephone connection
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Q.15 (11/88)  Withdrawn (03/93)
Nominal mean power during the busy hour
Deleted Q.15 was an extract of ITU-T G.223. ITU-T G.223 remains valid
Individually through the Electronic Bookshop:

Q.16 (11/88)  Withdrawn (03/93)
Maximum permissible value for the absolute power level of a signalling pulse
Q.16 was an alias name of ITU-T G.224. Only this alias name was suppressed. ITU-T G.224 remains valid
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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:

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:

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:

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:

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:

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.45 bis (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:

Signalling for circuit multiplication equipment

Q.50 (07/01) Signalling between Circuit Multiplication Equipment (CME) and International Switching Centres (ISC)

27pp E 21781 F 21782 S 21783 17 CHF

Q.50.1 (07/01) Signalling between international switching centres (ISC) and digital circuit multiplication equipment (DCME) including the control of compression/decompression

20pp E 21809 F 21810 S 21811 12 CHF

Q.50.2 (12/02) Signalling between International Switching Centres (ISC) and Digital Circuit Multiplication Equipment (DCME) including the control of compression/decompression over an IP network

19pp E 23854 F 23855 S 23856 12 CHF

Q.52 (03/01) Signalling between international switching centres and stand-alone echo control devices

14pp E 20563 F 20564 S 20565 12 CHF

Q.55 (12/99) Signalling between signal processing network equipment (SPNE) and international switching centres (ISC)

64pp E 19561 F 19562 S 19563 29 CHF

Q.56 (05/01) Signalling between signal processing network equipment (SPNE) and international switching centres (ISC) over an IP network

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)
43pp E 4482 F 4481 S 4483 8 CHF

**Q.84.2 (10/95)** Three-party service
24pp E 6962 F 6961 S 6963 17 CHF

**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)
32pp E 6828 F 6829 S 6830 17 CHF
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
Individually through the Electronic Bookshop: 20 CHF
Q.102 (11/88) Facilities provided in international automatic working
Individually through the Electronic Bookshop: 20 CHF
Q.103 (11/88) Numbering used
Individually through the Electronic Bookshop: 20 CHF
Q.104 (11/88) Language digit or discriminating digit
Individually through the Electronic Bookshop: 20 CHF
Q.105 (11/88) National (significant) number
Individually through the Electronic Bookshop: 20 CHF
Q.106 (11/88) The sending-finished signal
Individually through the Electronic Bookshop: 20 CHF
Q.107 (11/88) 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
Individually through the Electronic Bookshop: 20 CHF
Q.108 (11/88) One-way or both-way operation of international circuits
Individually through the Electronic Bookshop: 20 CHF
Q.109 (11/88) Transmission of the answer signal in international exchanges
Individually through the Electronic Bookshop: 20 CHF

Transmission clauses for signalling
Q.110 (11/88) General aspects of the utilization of standardized CCITT signalling systems on PCM links
Individually through the Electronic Bookshop: 20 CHF
Q.112 (11/88) Signal levels and signal receiver sensitivity
Individually through the Electronic Bookshop: 20 CHF
Q.113 (11/88) Connection of signal receivers in the circuit
Individually through the Electronic Bookshop: 20 CHF
Q.114 (11/88) Typical transmission requirements for signal senders and receivers
Individually through the Electronic Bookshop: 20 CHF

Control of echo suppressors
Q.115.0 (12/02) Protocols for the control of signal processing network elements and functions
15pp E 23831 F 23832 S 23833 12 CHF
Q.115.0 Erratum 1 (09/03)
Q.115.1 (12/02) Logic for the control of echo control devices and functions
Formerly Rec. Q.115
56pp E 23989 F 23990 S 23991 29 CHF

Abnormal conditions
Q.116 (11/88) Indication given to the outgoing operator or calling subscriber in case of an abnormal condition
Individually through the Electronic Bookshop: 20 CHF
<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Pages</th>
<th>Language Code</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q.117 (11/88)</td>
<td>Alarms for technical staff and arrangements in case of faults</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.118 (09/97)</td>
<td>Abnormal conditions – Special release arrangements</td>
<td>8pp</td>
<td>E 12447 F 12448 S 12449</td>
<td>9 CHF</td>
</tr>
<tr>
<td>Q.118 bis (11/88)</td>
<td>Indication of congestion conditions at transit exchanges</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.118 bis (11/88)</td>
<td>Abnormal conditions – Special release arrangements</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.119 (11/88)</td>
<td>Indication of congestion conditions at transit exchanges</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.120 (11/88)</td>
<td>Definition and function of signals</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.121 (11/88)</td>
<td>Signal code</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.122 (11/88)</td>
<td>Signal sender</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.123 (11/88)</td>
<td>Signal receiver</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.124 (11/88)</td>
<td>Splitting arrangements</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.125 (11/88)</td>
<td>Speed of switching in international exchanges</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.126 (11/88)</td>
<td>Analysis and transfer of digital information</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.127 (11/88)</td>
<td>Release of registers</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.128 (11/88)</td>
<td>Switching to speech position</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.129 (11/88)</td>
<td>Maximum duration of a blocking signal</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.130 (11/88)</td>
<td>Special arrangements in case of failures in the sequence of signals</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.131 (11/88)</td>
<td>Abnormal release conditions of the outgoing register causing release of the international circuit</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.133 (11/88)</td>
<td>Numbering for access to automatic measuring and testing devices</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.134 (11/88)</td>
<td>Routine testing of equipment (local maintenance)</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.135 (11/88)</td>
<td>Principles of rapid transmission testing equipment</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.136 (11/88)</td>
<td>Loop transmission measurements</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.137 (11/88)</td>
<td>Automatic testing equipment</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.138 (11/88)</td>
<td>Instruments for checking equipment and measuring signals</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.139 (11/88)</td>
<td>Manual testing</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.140 (11/88)</td>
<td>Definition and function of signals</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.140-Q.180 (11/88)</td>
<td>Specifications of Signalling System No. 5</td>
<td>68pp</td>
<td>E 22645 F 22645 S 22645</td>
<td>29 CHF</td>
</tr>
<tr>
<td>Q.141 (03/93)</td>
<td>Signal code for line signalling Clause 2 (03/93) – Line signalling</td>
<td>6pp</td>
<td>E 4991 F 4990 S 4992</td>
<td>8 CHF</td>
</tr>
<tr>
<td>Q.142 (11/88)</td>
<td>Double seizing with both-way operation</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.143 (11/88)</td>
<td>Line signal sender</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.144 (03/93)</td>
<td>Line signal receiver</td>
<td>3pp</td>
<td>E 4548 F 4547 S 4549</td>
<td>8 CHF</td>
</tr>
<tr>
<td>Q.145 (11/88)</td>
<td>Splitting arrangements</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.146 (11/88)</td>
<td>Speed of switching in international exchanges</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
<tr>
<td>Q.151 (11/88)</td>
<td>Signal code for register signalling</td>
<td></td>
<td></td>
<td>20 CHF</td>
</tr>
</tbody>
</table>
Q.152 (11/88)  End-of-Pulsing conditions – Register arrangements concerning ST (end-of-pulsing) signal
   Individually through the Electronic Bookshop: 20 CHF

Q.153 (11/88)  Multifrequency signal sender
   Individually through the Electronic Bookshop: 20 CHF

Q.154 (11/88)  Multifrequency signal receiver
   Individually through the Electronic Bookshop: 20 CHF

Q.155 (11/88)  Analysis of digital information for routing
   Empty Recommendation referring to Q.107 bis

Q.156 (11/88)  Release of international registers
   Individually through the Electronic Bookshop: 20 CHF

Q.157 (11/88)  Switching to the speech position
   Individually through the Electronic Bookshop: 20 CHF

Q.161 (11/88)  General arrangements for manual testing
   Empty Recommendation referring to Q.107 bis

Q.162 (11/88)  Routine testing of equipment (local maintenance)
   Individually through the Electronic Bookshop: 20 CHF

Q.163 (11/88)  Manual testing
   Individually through the Electronic Bookshop: 20 CHF

Q.164 (11/88)  Testing equipment for checking equipment and signals
   Individually through the Electronic Bookshop: 20 CHF

Interworking of Signalling Systems No. 4 and No. 5

Q.180 (11/88)  Interworking of signalling systems No. 4 and No. 5
   Individually through the Electronic Bookshop: 20 CHF

Specifications of Signalling System No. 6

Functional description of the signalling system

Q.251 (11/88)  General
   Individually through the Electronic Bookshop: 20 CHF

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
   Individually through the Electronic Bookshop: 20 CHF

Q.253 (11/88)  Association between signalling and speech networks
   Individually through the Electronic Bookshop: 20 CHF

Definition and function of signals

Q.254 (11/88)  Telephone signals
   Individually through the Electronic Bookshop: 20 CHF

Q.255 (11/88)  Signalling-system-control signals
   Individually through the Electronic Bookshop: 20 CHF

Q.256 (11/88)  Management signals
   Individually through the Electronic Bookshop: 20 CHF

Signal unit formats and codes

Q.257 (11/88)  General
   Individually through the Electronic Bookshop: 20 CHF

Q.258 (11/88)  Telephone signals
   Individually through the Electronic Bookshop: 20 CHF

Q.259 (11/88)  Signalling-system-control signals
   Individually through the Electronic Bookshop: 20 CHF

Q.260 (11/88)  Management signals
   Individually through the Electronic Bookshop: 20 CHF

Signalling procedures

Q.261 (11/88)  Normal call set-up
   Individually through the Electronic Bookshop: 20 CHF

Q.262 (11/88)  Analysis of digital information for routing
   Empty Recommendation referring to Q.107 bis

Q.263 (11/88)  Double seizing with both-way operation
   Individually through the Electronic Bookshop: 20 CHF

Q.264 (11/88)  Potential for automatic repeat attempt and re-routing
   Individually through the Electronic Bookshop: 20 CHF

Q.265 (11/88)  Speed of switching and signal transfer in international exchanges
   Individually through the Electronic Bookshop: 20 CHF
| Q.266 (11/88) | Blocking and unblocking sequences and control of quasi-associated signalling |
| Q.267 (11/88) | Unreasonable and superfluous messages |
| Q.268 (11/88) | Release of international connections and associated equipment |
| Q.270 (11/88) | Continuity check of the speech path |
| Q.271 (11/88) | General |
| Q.272 (11/88) | Requirements for the signalling data link |
| Q.273 (11/88) | Data transmission rate |
| Q.274 (11/88) | Transmission methods – Modem and interface requirements |
| Q.275 (11/88) | Data channel failure detection |
| Q.276 (11/88) | Service dependability |
| Q.277 (11/88) | Error control |
| Q.278 (11/88) | Synchronization |
| Q.279 (11/88) | Drift compensation |
| Q.280 (11/88) | Signal traffic characteristics |
| Q.285 (11/88) | Signal priority categories |
| Q.286 (11/88) | Signalling channel loading and queueing delays |
| Q.287 (11/88) | Signal transfer time requirements |
| Q.288 (11/88) | Security arrangements |
| Q.291 (11/88) | General |
| Q.292 (11/88) | Reserve facilities provided |
| Q.293 (11/88) | Intervals at which security measures are to be invoked |
| Q.294 (11/88) | Testing and maintenance |
| Q.295 (11/88) | Overall tests of Signalling System No. 6 |
| Q.296 (11/88) | Monitoring and maintenance of the common signalling channel |
| Q.297 (11/88) | Network management |
| Q.298 (11/88) | 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 |
| Q.310 (11/88) | Specifications of Signalling System R1 |
| Q.311 (11/88) | Definition and function of signals |
| Q.312 (11/88) | 2600 Hz line signalling (transmitter) |
| Q.313 (11/88) | 2600 Hz line signalling receiving equipment |
| Q.314 (11/88) | PCM line signalling |
Register signalling

Q.320 (11/88) Signal code for register signalling
   Individually through the Electronic Bookshop: 20 CHF

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
   Individually through the Electronic Bookshop: 20 CHF

Q.323 (11/88) Multifrequency signal receiving equipment
   Individually through the Electronic Bookshop: 20 CHF

Q.324 (11/88) Analysis of address information for routing
   Individually through the Electronic Bookshop: 20 CHF

Q.325 (11/88) Release of registers
   Individually through the Electronic Bookshop: 20 CHF

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

Testing arrangements

Q.327 (11/88) General arrangements
   Individually through the Electronic Bookshop: 20 CHF

Q.328 (11/88) Routine testing of equipment (local maintenance)
   Individually through the Electronic Bookshop: 20 CHF

   Individually through the Electronic Bookshop: 20 CHF

Q.330 (11/88) Automatic transmission and signalling testing
   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
   Individually through the Electronic Bookshop: 20 CHF

Q.412 (11/88)Clauses for exchange line signalling equipment
   Individually through the Electronic Bookshop: 20 CHF

Q.414 (11/88) Signal sender
   Individually through the Electronic Bookshop: 20 CHF

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
   Individually through the Electronic Bookshop: 20 CHF

Interregister signalling

Q.440 (11/88) General
   Individually through the Electronic Bookshop: 20 CHF

Q.441 (11/88) Signalling code
   Individually through the Electronic Bookshop: 20 CHF

   Individually through the Electronic Bookshop: 20 CHF

Q.450 (11/88) General
   Individually through the Electronic Bookshop: 20 CHF

Q.451 (11/88) Definitions
   Individually through the Electronic Bookshop: 20 CHF

Q.452 (11/88) Requirements relating to transmission conditions
   Individually through the Electronic Bookshop: 20 CHF

Q.454 (11/88) The sending part of the multifrequency signalling equipment
   Individually through the Electronic Bookshop: 20 CHF

Q.455 (11/88) The receiving part of the multifrequency equipment
   Individually through the Electronic Bookshop: 20 CHF

Q.457 (11/88) Range of interregister signalling
   Individually through the Electronic Bookshop: 20 CHF

Q.458 (11/88) Reliability of interregister signalling
   Individually through the Electronic Bookshop: 20 CHF

Signalling procedures

Q.460 (11/88) Normal call set-up procedures for international working
   Individually through the Electronic Bookshop: 20 CHF

Q.462 (11/88) Signalling between the outgoing international R2 register and an incoming R2 register in an international exchange
   Individually through the Electronic Bookshop: 20 CHF

Q.463 (11/88) Signalling between the outgoing international R2 register and an incoming R2 register in a national exchange in the destination country
   Individually through the Electronic Bookshop: 20 CHF

Q.464 (11/88) Signalling between the outgoing international R2 register and the last incoming R2 register
   Individually through the Electronic Bookshop: 20 CHF

Q.465 (11/88) Particular cases
   Individually through the Electronic Bookshop: 20 CHF

Q.466 (11/88) Supervision and release of the call
   Individually through the Electronic Bookshop: 20 CHF

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
   Individually through the Electronic Bookshop: 20 CHF

Q.471 (11/88) At the last incoming R2 register situated in the exchange to which the called subscriber is connected
   Individually through the Electronic Bookshop: 20 CHF

Q.472 (11/88) At the last incoming R2 register situated in a transit exchange
   Individually through the Electronic Bookshop: 20 CHF

Q.473 (11/88) Use of end-of-pulsing signal I-15 in international working
   Individually through the Electronic Bookshop: 20 CHF

Q.474 (11/88) Use of group B signals
   Individually through the Electronic Bookshop: 20 CHF

Q.475 (11/88) Normal release of outgoing and incoming R2 registers
   Individually through the Electronic Bookshop: 20 CHF

Q.476 (11/88) Abnormal release of outgoing and incoming R2 registers
   Individually through the Electronic Bookshop: 20 CHF

Q.478 (11/88) Relay and regeneration of R2 interregister signals by an outgoing R2 register in a transit exchange
   Individually through the Electronic Bookshop: 20 CHF

Q.479 (11/88) Echo-suppressor control – Signalling requirements
   Individually through the Electronic Bookshop: 20 CHF

Q.480 (11/88) Miscellaneous procedures
   Individually through the Electronic Bookshop: 20 CHF

Testing and maintenance

Q.490 (11/88) Testing and maintenance
   Individually through the Electronic Bookshop: 20 CHF
Supplements to the Series Q.500 Recommendations

Q.500 Series Supplement 2 (11/88) Impedance strategy for telephone instruments and digital local exchanges in the British Telecom Network
Individually through the Electronic Bookshop: 20 CHF

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Exchange interfaces, functions and connections

Q.511 (11/88) Exchange interfaces towards other exchanges
Individually through the Electronic Bookshop: 20 CHF

Q.512 (02/95) Digital exchange interfaces for subscriber access
10pp E 5964 F 5963 S 5965 11 CHF

Q.513 (03/93) Digital exchange interfaces for operations, administration and maintenance
4pp E 4422 F 4421 S 4423 8 CHF

Q.521 (03/93) Digital exchange functions
7pp E 4425 F 4424 S 4426 11 CHF

Q.522 (11/88) Digital exchange connections, signalling and ancillary functions
Individually through the Electronic Bookshop: 20 CHF

Design objectives and measurement

Q.541 (03/93) Digital exchange design objectives – General
6pp E 4428 F 4427 S 4429 8 CHF

Q.542 (03/93) Digital exchange design objectives – Operations and maintenance
21pp E 4551 F 4550 S 4552 24 CHF

Q.543 (03/93) Digital exchange performance design objectives
36pp E 4904 F 4903 S 4905 20 CHF

Q.544 (11/88) Digital exchange measurements
Individually through the Electronic Bookshop: 20 CHF

Transmission characteristics

Q.551/Q.Imp551 (01/02) Transmission characteristics of digital exchanges
38pp E 22039 F 22040 S 22041 22 CHF

Q.552/Q.Imp552 (11/01) Transmission characteristics at 2-wire analogue interfaces of digital exchanges
44pp E 21943 F 21945 S 21946 22 CHF

Q.553/Q.Imp553 (11/01) Transmission characteristics at 4-wire analogue interfaces of digital exchanges
22pp E 21585 F 21586 S 21587 17 CHF

Q.554 (11/96) Transmission characteristics at digital interfaces of digital exchanges
8pp E 10486 F 10487 S 10488 9 CHF

Interworking of Signalling Systems

General considerations

Q.601 (03/93) Interworking of signalling systems – General
2pp E 4641 F 4640 S 4642 8 CHF

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
31pp E 4964 F 4963 S 4965 15 CHF

Q.601 Q.695 Annex B (03/93) Narrative presentation of interworking
23pp E 4493 F 4492 S 4494 20 CHF

Q.602 (03/93) Interworking of signalling systems – Introduction
3pp E 4620 F 4619 S 4621 8 CHF

Q.603 (11/88) Events
Individually through the Electronic Bookshop: 20 CHF

Q.604 (03/93) Interworking of signalling systems – Information analysis tables
2pp E 4431 F 4430 S 4432 8 CHF

Q.605 (11/88) Drawing conventions
Individually through the Electronic Bookshop: 20 CHF

ITU-T 05/04 – Series Q 115
Q.606 (11/88) Logic procedures
   *Individually through the Electronic Bookshop:* 20 CHF

Q.607 (11/88) Interworking requirements for new signalling systems
   *Individually through the Electronic Bookshop:* 20 CHF

Q.608 (11/88) Miscellaneous interworking aspects
   *Individually through the Electronic Bookshop:* 20 CHF

Logic procedures

Q.611 (11/88) Logic procedures for incoming signalling system No. 4
   *Individually through the Electronic Bookshop:* 20 CHF

Q.612 (11/88) Logic procedures for incoming signalling system No. 5
   *Individually through the Electronic Bookshop:* 20 CHF

Q.613 (11/88) Logic procedures for incoming signalling system No. 6
   *Individually through the Electronic Bookshop:* 20 CHF

Q.614 (03/93) Logic procedures for incoming Signalling System No. 7 (TUP)
   16pp E 4877 F 4876 S 4878 11 CHF

Q.615 (11/88) Logic procedures for incoming signalling system R1
   *Individually through the Electronic Bookshop:* 20 CHF

Q.616 (11/88) Logic procedures for incoming signalling system R2
   *Individually through the Electronic Bookshop:* 20 CHF

Q.617 (03/93) Logic procedures for incoming signalling system No. 7 (ISUP)
   18pp E 4925 F 4924 S 4926 15 CHF

Q.621 (11/88) Logic procedures for outgoing signalling system No. 4
   *Individually through the Electronic Bookshop:* 20 CHF

Q.622 (11/88) Logic procedures for outgoing signalling system No. 5
   *Individually through the Electronic Bookshop:* 20 CHF

Q.623 (11/88) Logic procedures for outgoing signalling system No. 6
   *Individually through the Electronic Bookshop:* 20 CHF

Q.624 (03/93) Logic procedures for outgoing Signalling System No. 7 (TUP)
   11pp E 5003 F 5002 S 5004 11 CHF

Q.625 (11/88) Logic procedures for outgoing signalling system R1
   *Individually through the Electronic Bookshop:* 20 CHF

Q.626 (11/88) Logic procedures for outgoing signalling system R2
   *Individually through the Electronic Bookshop:* 20 CHF

Q.627 (03/93) Logic procedures for outgoing Signalling System No. 7 (ISUP)
   10pp E 4832 F 4831 S 4833 11 CHF

Q.634 (11/88) Logic procedures for interworking of signalling system No. 4 to R2
   *Individually through the Electronic Bookshop:* 20 CHF

Q.642 (11/88) Logic procedures for interworking of signalling system No. 5 to No. 6
   *Individually through the Electronic Bookshop:* 20 CHF

Q.643 (11/88) Logic procedures for interworking of signalling system No. 5 to No. 7 (TUP)
   *Individually through the Electronic Bookshop:* 20 CHF

Q.644 (11/88) Logic procedures for interworking of signalling system No. 5 to R1
   *Individually through the Electronic Bookshop:* 20 CHF

Q.645 (11/88) Logic procedures for interworking of signalling system No. 5 to R2
   *Individually through the Electronic Bookshop:* 20 CHF

Q.646 (03/93) Logic procedures for interworking of Signalling System No. 5 to Signalling System No. 7 (ISUP)
   7pp E 4515 F 4514 S 4516 8 CHF

Q.652 (11/88) Logic procedures for interworking of signalling system No. 6 to No. 5
   *Individually through the Electronic Bookshop:* 20 CHF

Q.653 (11/88) Logic procedures for interworking of signalling system No. 6 to No. 7 (TUP)
   *Individually through the Electronic Bookshop:* 20 CHF

Q.654 (11/88) Logic procedures for interworking of signalling system No. 6 to R1
   *Individually through the Electronic Bookshop:* 20 CHF
Q.655 (11/88) Logic procedures for interworking of signalling system No. 6 to R2

Individually through the Electronic Bookshop: 20 CHF

Q.656 (03/93) Logic procedures for interworking of Signalling System No. 6 to Signalling System No. 7 (ISUP)

10pp E 4533 F 4532 S 4534 11 CHF

Q.662 (11/88) Logic procedures for interworking of signalling system No. 7 (TUP) to No. 5

Individually through the Electronic Bookshop: 20 CHF

Q.663 (11/88) Logic procedures for interworking of signalling system No. 7 (TUP) to No. 6

Individually through the Electronic Bookshop: 20 CHF

Q.664 (11/88) Logic procedures for interworking of signalling system No. 7 (TUP) to No. 7 (TUP)

Individually through the Electronic Bookshop: 20 CHF

Q.665 (11/88) Logic procedures for interworking of signalling system No. 7 (TUP) to R1

Individually through the Electronic Bookshop: 20 CHF

Q.666 (11/88) Logic procedures for interworking of signalling system No. 7 (TUP) to R2

Individually through the Electronic Bookshop: 20 CHF

Q.667 (03/93) Logic procedures for interworking of Signalling System No. 7 (TUP) to Signalling System No. 7 (ISUP)

8pp E 4602 F 4601 S 4603 8 CHF

Q.671 (11/88) Logic procedures for interworking of signalling system R1 to No. 5

Individually through the Electronic Bookshop: 20 CHF

Q.672 (11/88) Logic procedures for interworking of signalling system R1 to No. 6

Individually through the Electronic Bookshop: 20 CHF

Q.673 (11/88) Logic procedures for interworking of signalling system R1 to No. 7 (TUP)

Individually through the Electronic Bookshop: 20 CHF

Q.674 (11/88) Logic procedures for interworking of signalling system R1 to R2

Individually through the Electronic Bookshop: 20 CHF

Q.675 (03/93) Logic procedures for interworking of Signalling System R1 to Signalling System No. 7 (ISUP)

7pp E 4931 F 4930 S 4932 8 CHF

Q.681 (11/88) Logic procedures for interworking of signalling system R2 to No. 4

Individually through the Electronic Bookshop: 20 CHF

Q.682 (11/88) Logic procedures for interworking of signalling system R2 to No. 5

Individually through the Electronic Bookshop: 20 CHF

Q.683 (11/88) Logic procedures for interworking of signalling system R2 to No. 6

Individually through the Electronic Bookshop: 20 CHF

Q.684 (11/88) Logic procedures for interworking of signalling system R2 to No. 7 (TUP)

Individually through the Electronic Bookshop: 20 CHF

Q.685 (11/88) Logic procedures for interworking of signalling system R2 to R1

Individually through the Electronic Bookshop: 20 CHF

Q.686 (03/93) Logic procedures for interworking of Signalling System R2 to Signalling System No. 7 (ISUP)

7pp E 4683 F 4682 S 4684 11 CHF

Q.690 (03/93) Logic procedures for interworking of Signalling System No. 7 (ISUP) to No. 5

8pp E 4554 F 4553 S 4555 8 CHF

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

6pp E 4635 F 4634 S 4636 8 CHF

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

6pp E 4557 F 4556 S 4558 8 CHF
Q.694 (03/93) Logic procedures for interworking of signalling system No. 7 (ISUP) to R1
6pp E 4525 F 4524 S 4526 8 CHF

Q.695 (03/93) Logic procedures for interworking of Signalling System No. 7 (ISUP) to R2
8pp E 4485 F 4484 S 4486 38 CHF

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
48pp E 12308 F 12309 S 12310 22 CHF

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
50pp E 5029 F 5028 S 5030 24 CHF

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
144pp E 13012 F 13013 S 13014 55 CHF

Q.699 Addendum 1 (12/99) DSS1-SS7 interworking for call completion on no reply
12pp E 18036 F 18037 S 18038 12 CHF

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
28pp E 14101 F 14102 S 14103 17 CHF

Specifications of Signalling System No. 7

General

Q.700 (03/93) Introduction to CCITT Signalling System No. 7
20pp E 4434 F 4433 S 4435 15 CHF

Message transfer part (MTP)

Q.701 (03/93) Functional description of the message transfer part (MTP) of Signalling System No. 7
20pp E 4377 F 4376 S 4378 15 CHF

Q.702 (11/88) Signalling data link
Individually through the Electronic Bookshop: 20 CHF

Q.703 (07/96) Signalling link
92pp E 10442 F 10443 S 10444 39 CHF

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
23pp E 4437 F 4436 S 4438 15 CHF

Q.706 (03/93) Message transfer part signalling performance
36pp E 4506 F 4505 S 4507 20 CHF

Q.707 (11/88) Testing and maintenance
Individually through the Electronic Bookshop: 20 CHF

Q.708 (03/99) Assignment procedures for international signalling point codes
16pp E 16499 F 16500 S 16501 12 CHF

Q.709 (03/93) Hypothetical signalling reference connection
14pp E 4404 F 4403 S 4405 11 CHF

Q.710 (11/88) Simplified MTP version for small systems
Individually through the Electronic Bookshop: 20 CHF

Signalling connection control part (SCCP)

Q.711 (03/01) Functional description of the signalling connection control part
34pp E 20733 F 20734 S 20735 22 CHF

Q.712 (07/96) Definition and function of signalling connection control part messages
16pp E 10724 F 10725 S 10726 12 CHF

Q.713 (03/01) Signalling connection control part formats and codes
50pp E 20870 F 20871 S 20872 22 CHF

Q.714 (05/01) Signalling connection control part procedures
176pp E 21636 F 21637 S 21638 73 CHF
Q.715 (04/02) Signalling connection control part user guide
61pp E 22909 F 22910 S 22911 29 CHF

Q.716 (03/93) Signalling System No. 7 – Signalling connection control part (SCCP) performance
10pp E 4560 F 4559 S 4561 11 CHF

Telephone user part (TUP)

Q.721 (11/88) Functional description of the Signalling System No. 7 Telephone User Part (TUP)
Individually through the Electronic Bookshop: 20 CHF

Q.722 (11/88) General function of telephone messages and signals
Individually through the Electronic Bookshop: 20 CHF


Q.723 (11/88) Telephone user part formats and codes
A Corrigendum was indicated in 03/1993.
Individually through the Electronic Bookshop: 22 CHF


Q.724 (11/88) Telephone user part signalling procedures
Individually through the Electronic Bookshop: 34 CHF

Q.725 (03/93) Signalling performance in the telephone application
8pp E 4719 F 4718 S 4720 11 CHF

ISDN supplementary services

Q.730 (12/99) ISDN user part supplementary services
44pp E 17815 F 17816 S 17817 22 CHF

Q.731 Stage 3 description for number identification supplementary services using Signalling System No. 7
Q.731.1 (07/96) Direct-dialling-In (DDI)
12pp E 9631 F 9632 S 9633 12 CHF

Q.731.3 (03/93) Calling line identification presentation (CLIP)
13pp E 4410 F 4409 S 4411 20 CHF

Q.731.4 (03/93) Calling line identification restriction (CLIR)
4pp E 4410 F 4409 S 4411 20 CHF

Q.731.5 (03/93) Connected line identification presentation (COLP)
16pp E 4410 F 4409 S 4411 20 CHF

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)
Published with ITU-T Q.731.1.
4pp E 2612 F 2642 S 2673 11 CHF

Q.732 Stage 3 description for call offering supplementary services using Signalling System No. 7

Q.732.2-5 (12/99) Stage 3 description for call offering supplementary services using Signalling System No. 7: Call diversion services
Call diversion Recommendation groups four services the stage 3 descriptions of which are similar:
Q.732.2 – Call Forwarding Busy (CFB)
Q.732.3 – Call Forwarding No Reply (CFNR)
Q.732.4 – Call Forwarding Unconditional (CFU)
Q.732.5 – Call Deflection (CD).
40pp E 17877 F 17878 S 17879 22 CHF

Q.732.7 (07/96) Explicit Call Transfer
28pp E 10651 F 10652 S 10653 17 CHF

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

Q.733.1 (02/92) Call waiting (CW)
9pp E 2614 F 2644 S 2675 11 CHF

Q.733.2 (03/93) Call hold (HOLD)
Published with ITU-T Q.733.4.
7pp E 4446 F 4445 S 4447 11 CHF

Q.733.3 (06/97) Completion of calls to busy subscriber (CCBS)
40pp E 12355 F 12356 S 12357 22 CHF

Q.733.3 (1997) 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)
Published with ITU-T Q.733.2.
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)
23pp E 4536 F 4535 S 4537 29 CHF

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)
24pp E 10691 F 10692 S 10693 17 CHF

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
24pp E 12220 F 12221 S 12222 17 CHF

Q.751.1 (10/95) Network element management information model for the Message Transfer Part (MTP)
152pp E 7117 F 7118 S 7119 61 CHF

Q.751.2 (06/97) Network element management information model for the Signalling Connection Control Part
100pp E 12385 F 12386 S 12387 44 CHF

Q.751.3 (09/97) Network element information model for MTP accounting
32pp E 12559 F 12560 S 12561 17 CHF

Q.751.4 (05/98) Network element information model for SCCP accounting and accounting verification
20pp E 13769 F 13770 S 13771 17 CHF

Q.752 (06/97) Monitoring and measurements for Signalling System No. 7 networks
56pp E 11942 F 11943 S 11944 29 CHF

Q.753 (06/97) Signalling System No. 7 management functions MRVT, SRVT and CVT and definition of the OMASE-user
64pp E 11979 F 11980 S 11981 29 CHF

Q.754 (06/97) Signalling System No. 7 management Application Service Element (ASE) definitions
48pp E 11991 F 11992 S 11993 22 CHF

Q.755 (03/93) Signalling System No. 7 protocol tests
10pp E 4638 F 4637 S 4639 11 CHF

Q.755.1 (05/98) MTP Protocol Tester
44pp E 13724 F 13725 S 13726 22 CHF

Q.755.2 (09/97) Transaction capabilities test responder
24pp E 12496 F 12497 S 12498 17 CHF

Q.756 (06/97) Guidebook to Operations, Maintenance and Administration Part (OMAP)
16pp E 11935 F 11936 S 11937 12 CHF
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 (1999) Amendment 1 (07/01) Specifications of Signalling System No. 7 – ISDN user part functional description
8pp  E 21567  F 21568  S 21569  9 CHF

10pp  E 23790  F 23791  S 23792  9 CHF

Q.761 (12/99) Signalling System No. 7 – ISDN User Part general functions of messages and signals
28pp  E 19117  F 19118  S 19119  17 CHF

Q.762 Addendum 1 (06/00) Addendum 1
4pp  E 19721  F 19722  S 19723  9 CHF

7pp  E 23767  F 23768  S 23769  9 CHF

Q.763 (12/99) Signalling System No. 7 – ISDN User Part formats and codes
134pp  E 19698  F 19699  S 19700  55 CHF

Q.763 (1999) 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
12pp  E 20797  F 20798  S 20799  12 CHF

7pp  E 23745  F 23746  S 23747  9 CHF

Q.763 (1999) Amendment 3 (04/04)
12pp  E 25499  9 CHF

Q.763 (1999) 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 (1999) Amendment 1 (07/01) Amendment 1
16pp  E 21721  F 21722  S 21723  12 CHF

10pp  E 23770  F 23771  S 23772  9 CHF

Q.764 (1999) Amendment 3 (04/04)
11pp  E 25502  9 CHF

Q.765 bis (12/99) Signalling system No. 7 – Application Transport Mechanism: Test Suite Structure and Test Purposes (TSS & TP)
32pp  E 18114  F 18115  S 18116  17 CHF

Q.765 (06/00) Signalling system No. 7 – Application transport mechanism
40pp  E 19611  F 19612  S 19613  22 CHF

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.765.1 bis (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.765.1 bis (1999) 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
44pp  E 19934  F 19935  S 19936  22 CHF

Q.765.5 (06/00) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE’s
28pp  E 20064  F 20065  S 20066  17 CHF

Q.765.5 (2000) Amendment 1 (07/01) Bearer Independent Call Control Capability Set 2
20pp  E 21818  F 21819  S 21820  12 CHF

Q.766 (03/93) Performance objectives in the integrated services digital network application
4pp  E 4853  F 4852  S 4854  8 CHF

Q.767 (02/91) Application of the ISDN user part of CCITT signalling system No. 7 for international ISDN interconnections
271pp  E 2334  F 2312  S 2356  65 CHF

Q.767 (1991) Amendment 1 (12/02)
8pp  E 23780  F 23783  S 23784  9 CHF
<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Q.768 (10/95)</td>
<td>Signalling interface between an international switching centre and an ISDN satellite subnetwork</td>
<td>52pp</td>
<td>E 7006</td>
<td>F 7007</td>
<td>S 7008</td>
<td>29 CHF</td>
</tr>
<tr>
<td>Q.769.1 (12/99)</td>
<td>Signalling system No. 7 – ISDN user part enhancements for the support of number portability</td>
<td>20pp</td>
<td>E 17788</td>
<td>F 17789</td>
<td>S 17787</td>
<td>17 CHF</td>
</tr>
<tr>
<td>Q.771 (06/97)</td>
<td>Functional description of transaction capabilities</td>
<td>36pp</td>
<td>E 12403</td>
<td>F 12404</td>
<td>S 12405</td>
<td>22 CHF</td>
</tr>
<tr>
<td>Q.772 (06/97)</td>
<td>Transaction capabilities information element definitions</td>
<td>12pp</td>
<td>E 12321</td>
<td>F 12322</td>
<td>S 12323</td>
<td>12 CHF</td>
</tr>
<tr>
<td>Q.773 (06/97)</td>
<td>Transaction capabilities formats and encoding</td>
<td>36pp</td>
<td>E 12406</td>
<td>F 12407</td>
<td>S 12408</td>
<td>22 CHF</td>
</tr>
<tr>
<td>Q.774 (06/97)</td>
<td>Transaction capabilities procedures</td>
<td>64pp</td>
<td>E 12388</td>
<td>F 12389</td>
<td>S 12390</td>
<td>29 CHF</td>
</tr>
<tr>
<td>Q.775 (06/97)</td>
<td>Guidelines for using transaction capabilities</td>
<td>64pp</td>
<td>E 11938</td>
<td>F 11939</td>
<td>S 11940</td>
<td>29 CHF</td>
</tr>
<tr>
<td>Q.780 (10/95)</td>
<td>Signalling System No. 7 test specification – General description</td>
<td>16pp</td>
<td>E 6914</td>
<td>F 6915</td>
<td>S 6916</td>
<td>15 CHF</td>
</tr>
<tr>
<td>Q.781 (04/02)</td>
<td>MTP level 2 test specification</td>
<td>110pp</td>
<td>E 22514</td>
<td>F 22515</td>
<td>S 22516</td>
<td>44 CHF</td>
</tr>
<tr>
<td>Q.782 (04/02)</td>
<td>MTP level 3 test specification</td>
<td>152pp</td>
<td>E 22584</td>
<td>F 22585</td>
<td>S 22586</td>
<td>61 CHF</td>
</tr>
<tr>
<td>Q.783 (11/88)</td>
<td>TUP test specification</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

*Individually through the Electronic Bookshop: 39 CHF*
Specifications of Signalling System No. 7

Q.812 (1997) Amendment 1 (03/99) Additional X interface protocols for the service management layer (SML)
8pp E 15892 F 15893 S 15894 9 CHF

Q.812 Appendix I (03/99) Guidance on using allomorphic management
24pp E 15757 F 15758 S 15759 17 CHF

68pp E 14465 F 14466 S 14467 34 CHF

Q.814 (02/00) Specification of an electronic data interchange interactive agent
24pp E 19182 F 19183 S 19184 17 CHF

Q.815 (02/00) Specification of a security model for whole message protection
20pp E 19191 F 19192 S 19193 17 CHF

Q.816 (01/01) CORBA-based TMN services
80pp E 20532 F 20533 S 20534 34 CHF

Q.816 (2001) Amendment 1 (08/01) OMG services profile
16pp E 21570 F 21571 S 21572 12 CHF

Q.816 (2001) Amendment 2 (05/02) User guide for local name resolution
9pp E 22455 F 22456 S 22457 9 CHF

Q.816 (2001) Corrigendum 1 (08/01)

Q3 interface

Q.816 (2001) Corrigendum 2 (08/02)

Specifications of Signalling System No. 7

Q3 interface

Q.816 (2001) Corrigendum 3 (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

Q3 interface

Q.822 (1994) Amendment 1 (03/03)  Generic transport performance management
13pp E 23821 F 23822 S 23824 12 CHF

Specifications of Signalling System No. 7

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

Q.822.1 (2001) Amendment 1 (03/03)  Generic transport performance management
22pp E 23994 F 23995 S 23996 17 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

Q.824.1 (10/95)  Integrated Services Digital Network (ISDN) basic and primary rate access
72pp E 6782 F 6783 S 6784 34 CHF

Q.824.2 (10/95)  Integrated Services Digital Network (ISDN) supplementary services
32pp E 6704 F 6705 S 6706 15 CHF

Q.824.3 (10/95)  Integrated Services Digital Network (ISDN) optional user facilities
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 (1997) 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 (09/97)  Fault and performance management of V5 interface environments and associated customer profiles
52pp E 12478 F 12479 S 12480 29 CHF

Q.831 (1997) 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 (1998) 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
60pp E 20717 F 20718 S 20719 29 CHF

Q.833.1 (01/01)  Asymmetric digital subscriber line (ADSL) – Network element management: CMIP model
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.834.4 (07/03) A CORBA interface specification for Broadband Passive Optical Networks based on UML interface requirements
194pp E 24910 73 CHF

Q3 interface

Q3 interface

Q.834.4 (2003) Amendment 1 (01/04)
To be published...

Q.834.4 (2003) Corrigendum 1 (01/04)
To be published...

Specifications of Signalling System No. 7

Q.835 (03/99) Line and line circuit test management of ISDN and analogue customer accesses
76pp E 16164 F 16166 S 16167 34 CHF

Q.835 (1999) Corrigendum 1 (03/01)
Corrigendum 1 to Recommendation Q.835

Q.836.1 (02/00) SSF management information model
68pp E 19162 F 19166 S 19168 29 CHF

Q3 interface

Q3 interface

Q.837.1 (02/04) SDH-DLC functional requirements for the network and network element views
26pp E 25545 17 CHF

Digital subscriber Signalling System No. 1

General

Q.850 (05/98) Usage of cause and location in the Digital Subscriber Signalling System No. 1 and the Signalling System No. 7 ISDN User Part
32pp E 14218 F 14219 S 14220 17 CHF

Q.850 Addendum 1 (06/00) Addendum 1
4pp E 19704 F 19705 S 19706 9 CHF

General

Q.850 (1998) Amendment 1 (07/01) Usage of cause and location in the Digital Subscriber Signalling System No. 1 (DSS1) and the Signalling System No. 7 ISDN user part (ISUP)
8pp E 21579 F 21580 S 21581 9 CHF

General

Q.860 (06/00) Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE’s
36pp E 20009 F 20010 S 20011 17 CHF

Data link layer

Q.920 (03/93) ISDN user-network interface data link layer – General aspects
This Recommendation is also included but not published in I series under alias number I.440
20pp E 4353 F 4352 S 4354 15 CHF

Q.920 (1993) Amendment 1 (06/00)
10pp E 19680 F 19681 S 19682 9 CHF

Q.921 bis (03/93) Abstract test suite for LAPD conformance testing
This Recommendation includes 5 diskettes containing postscript files of ATS for testing conformance of basic rate user side equipment to Rec. Q.921.
10pp E 10162 F 10163 S 10164 111 CHF

Q.921 (09/97) ISDN user-network interface – Data link layer specification
This Recommendation is also included but not published in I series under alias number I.441.
268pp E 13327 F 13328 S 13329 96 CHF

Q.921 (1997) Amendment 1 (06/00)
16pp E 19524 F 19525 S 19526 12 CHF

Q.922 (02/92) ISDN data link layer specification for frame mode bearer services
109pp E 2808 F 2770 S 2843 38 CHF

Q.923 (02/95) Specification of a synchronization and coordination function for the provision of the OSI connection-mode network service in an ISDN environment
28pp E 6033 F 6032 S 6034 15 CHF
Network layer

Q.930 (03/93) ISDN user-network interface layer 3 – General aspects
This Recommendation is also included but not published in I series under alias number I.450
3pp E 4997 F 4996 S 4998 8 CHF

Q.931 (05/98) ISDN user-network interface layer 3 specification for basic call control
This Recommendation is also included but not published in I series under alias number I.451
344pp E 15605 F 15606 S 15607 124 CHF

Q.931 (1998) Amendment 1 (12/02) Extensions for the support of digital multiplexing equipment
24pp E 23874 F 23875 S 23876 17 CHF

Q.931 (1998) Erratum 1 (02/03)

Q.932 (05/98) Digital subscriber signalling system No. 1 – Generic procedures for the control of ISDN supplementary services
This Recommendation is also included but not published in I series under alias number I.452.
124pp E 14512 F 14513 S 14514 49 CHF

Q.932 (1998) Amendment 1 (06/00)
24pp E 19590 F 19591 S 19592 17 CHF

Q.933 bis (10/95) Abstract test suite – Signalling specification for frame mode basic call control conformance testing for permanent virtual connections (PVCs)
This Recommendation includes one diskette containing Abstract test suites Section II corresponding to additional procedures for PVCs as per ITU-T Q.933 Annex A.
8pp E 13374 F 13377 S 13378 49 CHF

Q3 interface

Q3 interface

Q.933 (02/03) Digital Subscriber Signalling System No. 1 (DSS 1) – Signalling specifications for frame mode switched and permanent virtual connection control and status monitoring
44pp E 24051 F 24052 S 24053 22 CHF

Digital subscriber Signalling System No. 1

Q.939 (03/93) Typical DSS 1 service indicator codings for ISDN telecommunications services
49pp E 5017 F 5016 S 5018 24 CHF

User-network management

Q.940 (11/88) ISDN user-network interface protocol for management – General aspects
Individually through the Electronic Bookshop: 20 CHF

Q.941 (03/93) ISDN user-network interface protocol profile for management
9pp E 4458 F 4457 S 4459 11 CHF

Stage 3 description for supplementary services using DSSI

Q.950 (06/00) Supplementary services protocols, structure and general principles
28pp E 19596 F 19597 S 19598 17 CHF

Q.951 Stage 3 description for number identification supplementary services using DSS 1

Q.951.1 (02/92) Direct-dialling-in (DDI)
Q.951 parts 1, 2 and 8 published together
4pp E 2613 F 2643 S 2674 11 CHF

Q.951.2 (02/92) Multiple subscriber number (MSN)
Q.951 parts 1, 2 and 8 published together
5pp E 2613 F 2643 S 2674 11 CHF

Q.951.3 (03/93) Calling line identification presentation
Q.951 parts 3-6 published together
13pp E 5026 F 5025 S 5027 20 CHF

Q.951.4 (03/93) Calling line identification restriction
Q.951 parts 3-6 published together
6pp E 5026 F 5025 S 5027 20 CHF

Q.951.5 (03/93) Connected line identification presentation
Q.951 parts 3-6 published together
14pp E 5026 F 5025 S 5027 20 CHF

Q.951.6 (03/93) Connected line identification restriction
Q.951 parts 3-6 published together
6pp E 5026 F 5025 S 5027 20 CHF

Q.951.7 (06/97) Malicious Call Identification (MCID)
16pp E 11919 F 11920 S 11921 12 CHF

Q.951.8 (02/92) Sub-addressing (SUB)
Q.951 parts 1, 2 and 8 published together
5pp E 2613 F 2643 S 2674 11 CHF
Q.952 (03/93)  Stage 3 description for call offering supplementary services using DSS 1 – Diversion supplementary services

66pp  E 5092  F 5091  S 5093  29 CHF

Q.952.7 (06/97)  Stage 3 description for call offering supplementary services using DSS 1 – Explicit Call Transfer (ECT)

52pp  E 11967  F 11968  S 11969  29 CHF

Q.953 ISDN stage 3 description for call completion supplementary services using DSS 1

Q.953.1 (02/92)  Call waiting

11pp  E 2616  F 2647  S 2678  11 CHF

Q.953.2 (03/93)  Call hold

17pp  E 4934  F 4933  S 4935  15 CHF

Q.953.3 (06/97)  Completion of Calls to Busy Subscribers (CCBS)

104pp  E 12409  F 12410  S 12411  44 CHF

Q.953.4 (10/95)  Terminal Portability (TP)

12pp  E 6904  F 6906  S 6905  12 CHF

Q.953.5 (12/99)  Call Completion on No Reply (CCNR)

This Recommendation includes one diskette containing the SDL process diagrams of DSS1 CCNR in machine processable form and in graphical form.

88pp  E 17711  F 17712  S 17713  79 CHF

Q.954 Stage 3 description for multiparty supplementary services using DSS 1

Q.954.1 (03/93)  Conference calling

Covering note, June 1999: Information note

43pp  E 5065  F 5064  S 5066  24 CHF

Q.954.2 (10/95)  Three-party (3PTY)

36pp  E 7120  F 7121  S 7122  22 CHF

Q.955 Stage 3 description for community of interest supplementary services using DSS 1

Q.955.1 (02/92)  Stage 3 description for community of interest supplementary services using DSS 1: Closed user group

21pp  E 2619  F 2650  S 2681  17 CHF

Q.955.3 (03/93)  Multi-level precedence and preemption (MLPP)

59pp  E 5080  F 5079  S 5081  24 CHF

Q.956 Stage 3 description for charging supplementary services using DSS 1

Q.956.2 (10/95)  Advice of charge

52pp  E 6688  F 6689  S 6690  25 CHF

Q.956.3 (10/95)  Reverse charging

36pp  E 6506  F 6507  S 6508  20 CHF

Q.957 Stage 3 description for additional information transfer supplementary services using DSS 1

Q.957.1 (07/96)  User-to-User Signalling (UUS)

36pp  E 10730  F 10731  S 10732  22 CHF

Public Land Mobile Network

General

Q.1000 (11/88)  Withdrawn (12/03)

Structure of the Q.1000-Series Recommendations for public land mobile networks

This Recommendation was deleted on 24/12/2003 since it has become obsolete, due to the evolution of the work on mobile networks

Individually through the Electronic Bookshop: 20 CHF

Q.1001 (11/88)  General aspects of public land mobile networks

Individually through the Electronic Bookshop: 20 CHF

Q.1002 (11/88)  Withdrawn (12/03)

Network functions

This Recommendation was deleted on 24/12/2003 since it has become obsolete, due to the evolution of the work on mobile networks

Individually through the Electronic Bookshop: 20 CHF
Q.1003 (11/88)  Withdrawn (12/03)
Location registration procedures

This Recommendation was deleted on 24/12/2003 since it has become obsolete, due to the evolution of the work on mobile networks

Individually through the Electronic Bookshop: 20 CHF

Q.1004 (11/88)  Withdrawn (12/03)
Location register restoration procedures

This Recommendation was deleted on 24/12/2003 since it has become obsolete, due to the evolution of the work on mobile networks

Individually through the Electronic Bookshop: 20 CHF

Q.1005 (11/88)  Withdrawn (12/03)
Handover procedures

This Recommendation was deleted on 24/12/2003 since it has become obsolete, due to the evolution of the work on mobile networks

Individually through the Electronic Bookshop: 22 CHF

Interworking with ISDN and PSTN

Q.1031 (11/88)  Withdrawn (12/03)
General signalling requirements on interworking between the ISDN or PSTN and the PLMN

Formerly Q.70 (1984). This Recommendation was deleted on 24/12/2003 since it has become obsolete, due to the evolution of the work on mobile networks

Individually through the Electronic Bookshop: 20 CHF

Q.1032 (11/88)  Withdrawn (12/03)
Signalling requirements relating to routing of calls to mobile subscribers

This Recommendation was deleted on 24/12/2003 since it has become obsolete, due to the evolution of the work on mobile networks

Individually through the Electronic Bookshop: 20 CHF

Mobile Application Part

Q.1051 (11/88)  Withdrawn (03/93)
Mobile application Part

This Recommendation was made for second generation of mobile systems. For this generation, three specifications have been developed by regional standards organizations. These implementations were complying with the philosophy of intentions of the Q.1000-Series of Recommendations, but they were modified and enhanced to include new functions and to handle regional network dependent features. These regional specifications supersede ITU-T Q.1051 (1988)

Individually through the Electronic Bookshop:

Digital PLMN user-network interfaces

Q.1061 (11/88)  Withdrawn (12/03)
General aspects and principles relating to digital PLMN access signalling reference points

This Recommendation was deleted on 24/12/2003 since it has become obsolete, due to the evolution of the work on mobile networks

Individually through the Electronic Bookshop: 20 CHF

Q.1062 (11/88)  Withdrawn (12/03)
Digital PLMN access signalling reference configurations

This Recommendation was deleted on 24/12/2003 since it has become obsolete, due to the evolution of the work on mobile networks

Individually through the Electronic Bookshop: 20 CHF

Q.1063 (11/88)  Withdrawn (12/03)
Digital PLMN channel structures and access capabilities at the radio interface (Um reference point)

This Recommendation was deleted on 24/12/2003 since it has become obsolete, due to the evolution of the work on mobile networks

Individually through the Electronic Bookshop: 20 CHF

Interworking with satellite mobile systems

Interworking with Standard-A INMARSAT system

Q.1100 (03/93)  Structure of the Recommendations on the INMARSAT mobile satellite systems

2pp  E 4075  F 4074  S 4076  8 CHF

Q.1101 (11/88)  General requirements for the interworking of the terrestrial telephone network and INMARSAT Standard A system

Individually through the Electronic Bookshop: 20 CHF

Q.1102 (11/88)  Interworking between Signalling System R2 and INMARSAT Standard A system

Individually through the Electronic Bookshop: 20 CHF

Q.1103 (11/88)  Interworking between Signalling System No. 5 and INMARSAT Standard A system

Individually through the Electronic Bookshop: 20 CHF
Interworking with Standard-B INMARSAT system

Q.1111 (03/93) Interoperability between the INMARSAT Standard B system and the international public switched telephone network/ISDN
22pp E 4461 F 4460 S 4462 15 CHF

Q.1112 (03/93) Procedures for interworking between INMARSAT Standard-B system and the international public switched telephone network/ISDN
57pp E 4677 F 4676 S 4678 24 CHF

Interworking with the INMARSAT aeronautical mobile-satellite system

Q.1151 (03/93) Interfaces for interworking between the INMARSAT aeronautical mobile-satellite system and the international public switched telephone network/ISDN
20pp E 4356 F 4355 S 4357 15 CHF

Q.1152 (03/93) Procedures for interworking between INMARSAT aeronautical mobile satellite system and the international public switched telephone network/ISDN
55pp E 4464 F 4463 S 4465 24 CHF

Intelligent Network

Q.1200 (09/97) General series Intelligent Network Recommendation structure
12pp E 14314 F 14315 S 14316 12 CHF

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

Q.1202/I.328 (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

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
6pp E 3859 F 3858 S 3860 8 CHF

Q.1208 (09/97) General aspects of the Intelligent Network Application protocol
8pp E 12800 F 12801 S 12802 9 CHF

Q.1210 (10/95) Q.1210-series Intelligent network Recommendation structure
12pp E 6831 F 6832 S 6833 12 CHF

Q.1211 (03/93) Introduction to intelligent network capability set 1
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 197 CHF

Q.1218 Addendum 1 (09/97) Definition for two new contexts in the SDF data model
4pp E 12830 F 12831 S 12832 9 CHF

Q.1219 (04/94) Intelligent network user’s guide for capability set 1
204pp E 5459 F 5458 S 5460 8 CHF

Supplements to the Series Q.1210 Recommendations

Suppl. 1 (09/97) Intelligent network user’s guide for Capability Set 1: Supplement for IN CS-1
20pp E 13079 F 13080 S 13081 17 CHF

Supplements to the Series Q Recommendations

Suppl. 4 (05/98) Number portability – Call control for capability set 1 service provider portability (All call query and Onward routing)
29pp E 14632 F 14633 S 14634 17 CHF

Intelligent Network

Q.1220 (09/97) Q.1220-series Intelligent Network Capability Set 2 Recommendation structure
24pp E 15548 F 15549 S 15550 12 CHF
<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Date</th>
<th>Title</th>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q.1221 (09/97)</td>
<td></td>
<td>Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE’s</td>
<td>44 pp</td>
<td>22 CHF</td>
</tr>
<tr>
<td>Q.1222 (09/97)</td>
<td></td>
<td>Service plane for Intelligent Network Capability Set 2</td>
<td>12 pp</td>
<td>12 CHF</td>
</tr>
<tr>
<td>Q.1223 (09/97)</td>
<td></td>
<td>Global functional plane for Intelligent Network Capability Set 2</td>
<td>108 pp</td>
<td>44 CHF</td>
</tr>
<tr>
<td>Q.1224 (09/97)</td>
<td></td>
<td>Distributed functional plane for intelligent network Capability Set 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q.1225 (09/97)</td>
<td></td>
<td>Physical plane for Intelligent Network Capability Set 2</td>
<td>16 pp</td>
<td>12 CHF</td>
</tr>
<tr>
<td>Q.1228 (09/97)</td>
<td></td>
<td>Interface Recommendation for intelligent network Capability Set 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q.1229 (03/99)</td>
<td></td>
<td>Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE’s</td>
<td>172 pp</td>
<td>73 CHF</td>
</tr>
<tr>
<td>Q.1231 (12/99)</td>
<td></td>
<td>Introduction to Intelligent Network Capability Set 3</td>
<td>32 pp</td>
<td>17 CHF</td>
</tr>
<tr>
<td>Q.1236 (12/99)</td>
<td></td>
<td>Intelligent Network Capability Set 3 – Management Information Model Requirements and Methodology</td>
<td>56 pp</td>
<td>29 CHF</td>
</tr>
<tr>
<td>Q.1237 (06/00)</td>
<td></td>
<td>Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE’s</td>
<td>96 pp</td>
<td>39 CHF</td>
</tr>
<tr>
<td>Q.1238 Interface Recommendation for intelligent network capability set 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q.1238.1 (06/00)</td>
<td></td>
<td>Common aspects</td>
<td>84 pp</td>
<td>89 CHF</td>
</tr>
<tr>
<td>Q.1238.2 (06/00)</td>
<td></td>
<td>Interface Recommendation for intelligent network capability set 3 : SCF-SSF interface</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q.1238.3 (06/00)</td>
<td></td>
<td>SCF-SRF interface</td>
<td>84 pp</td>
<td>89 CHF</td>
</tr>
<tr>
<td>Q.1238.4 (06/00)</td>
<td></td>
<td>SCF-SDF interface</td>
<td>52 pp</td>
<td>79 CHF</td>
</tr>
<tr>
<td>Q.1238.5 (06/00)</td>
<td></td>
<td>SDF-SDF interface</td>
<td>72 pp</td>
<td>84 CHF</td>
</tr>
<tr>
<td>Q.1238.6 (06/00)</td>
<td></td>
<td>Interface Recommendation for intelligent network capability set 3 : SCF-SCF interface</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q.1238.7 (06/00)</td>
<td></td>
<td>Interface Recommendation for intelligent network capability set 3 : SCF-CUSF interface</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q.1241 (07/01)</td>
<td></td>
<td>Introduction to Intelligent Network Capability Set 4</td>
<td>24 pp</td>
<td>17 CHF</td>
</tr>
<tr>
<td>Q.1244 (07/01)</td>
<td></td>
<td>Distributed functional plane for Intelligent Network Capability Set 4</td>
<td>72 pp</td>
<td>29 CHF</td>
</tr>
<tr>
<td>Q.1248.1 (07/01)</td>
<td></td>
<td>Interface Recommendation for Intelligent Network Capability Set 4 : Common aspects</td>
<td>88 pp</td>
<td>89 CHF</td>
</tr>
</tbody>
</table>
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

24pp E 13772 F 13773 S 13774 17 CHF

Q.1300 (10/95) Telecommunication applications for switches and computers (TASC) – General overview

16pp E 6891 F 6892 S 6893 12 CHF

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) UPT security requirements for Service Set 1

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.1600 bis (12/99) Signalling system No. 7 – Interaction between ISDN user part ISUP'97 and INAP CS1: Test suite structure and test purposes (TSS & TP)

This Recommendation includes an electronic attachment containing the ATS in machine processable form and in pdf form for ISUP'97/INAP CS-1 interaction

52pp E 19573 F 19574 S 19575 79 CHF
Q.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
3pp  E 5588  F 5587  S 5589  8 CHF

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 (SSCPMCE)
120pp  E 20058  F 20059  S 20060  49 CHF

Q.2111 (1999) Amendment 1 (07/01)
Amendment 1 – B-ISDN ATM adaptation layer – Service specific connection oriented protocol in a multilink and connectionless environment (SSCPMCE)
48pp  E 21898  F 21899  S 21900  22 CHF

Q.2111 (1999) Amendment 2 (04/02)  API for SSCOPMCE over Ethernet
26pp  E 22401  F 22402  S 22403  17 CHF


Q.2111 (1999) Amendment 3 (10/03)  API for SSCOPMCE over Ethernet and UDP port number
24639pp  E 24  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)
61pp  E 6135  F 6134  S 6136  25 CHF

Q.2140 (1995) Erratum 1 (03/04)

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
34pp  E 20794  F 20795  S 20796  22 CHF

Q.2150.3 (12/02)  Signalling transport converter on SCTP
22pp  E 23818  F 23819  S 23820  17 CHF
### Signalling network protocols

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Functions and Messages Using the Services of ITU-T Recommendation Q.2140</th>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q.2210 (07/96)</td>
<td>Message transfer part level 3 functions and messages using the services of ITU-T Recommendation Q.2140</td>
<td>28pp</td>
<td>E 10106 F 10107 S 10108</td>
<td>17 CHF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Functions and Messages Using the Services of ITU-T Recommendation Q.2140</th>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q.2220 (12/02)</td>
<td>Transport-Independent Signalling Connection Control Part (TI-SCCP)</td>
<td>66pp</td>
<td>E 24999 F 25000 S 25001</td>
<td>29 CHF</td>
</tr>
</tbody>
</table>

### Common aspects of B-ISDN application protocols for access signalling and network signalling and interworking

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Functions and Messages Using the Services of ITU-T Recommendation Q.2140</th>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q.2610 (12/99)</td>
<td>Usage of cause and location in B-ISDN user part and DSS2</td>
<td>8pp</td>
<td>E 17657 F 17658 S 17659</td>
<td>9 CHF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Functions and Messages Using the Services of ITU-T Recommendation Q.2140</th>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q.2630.1 (12/99)</td>
<td>AAL type 2 signalling protocol (Capability Set 1)</td>
<td>88pp</td>
<td>E 19430 F 19431 S 19432</td>
<td>39 CHF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Functions and Messages Using the Services of ITU-T Recommendation Q.2140</th>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q.2630.2 (12/00)</td>
<td>AAL type 2 signalling protocol – Capability Set 2</td>
<td>56pp</td>
<td>E 20864 F 20865 S 20866</td>
<td>29 CHF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Functions and Messages Using the Services of ITU-T Recommendation Q.2140</th>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q.2630.2 Annex D (04/02)</td>
<td>Annex D: SDL definition of the AAL type 2 signalling protocol CS-2</td>
<td>84pp</td>
<td>E 23687 F 23688 S 23689</td>
<td>34 CHF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Functions and Messages Using the Services of ITU-T Recommendation Q.2140</th>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q.2630.3 (10/03)</td>
<td>AAL type 2 signalling protocol – Capability Set 3</td>
<td>160pp</td>
<td>E 25389</td>
<td>61 CHF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Functions and Messages Using the Services of ITU-T Recommendation Q.2140</th>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q.2631.1 (10/03)</td>
<td>Interworking between AAL type 2 signalling protocol Capability Set 2 and IP connection control signalling protocol Capability Set 1</td>
<td>53pp</td>
<td>E 24813 F 24814 S 24815</td>
<td>29 CHF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Functions and Messages Using the Services of ITU-T Recommendation Q.2140</th>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q.2632.2 (09/97)</td>
<td>Interworking between AAL type 2 signalling protocol Capability Set 2 and IP connection control signalling protocol Capability Set 1</td>
<td>32pp</td>
<td>E 24757 F 24758 S 24759</td>
<td>17 CHF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Functions and Messages Using the Services of ITU-T Recommendation Q.2140</th>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q.2650 (12/99)</td>
<td>Interworking between Signalling System No. 7 broadband ISDN User Part (B-ISUP) and digital subscriber Signalling System No. 2 (DSS 2)</td>
<td>44pp</td>
<td>E 18785 F 18786 S 18787</td>
<td>22 CHF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Functions and Messages Using the Services of ITU-T Recommendation Q.2140</th>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q.2660 (12/99)</td>
<td>Interworking between signalling system No. 7 broadband ISDN User Part (B-ISUP) and narrow-band ISDN User Part (N-ISUP)</td>
<td>36pp</td>
<td>E 17764 F 17765 S 17766</td>
<td>22 CHF</td>
</tr>
</tbody>
</table>

### B-ISDN application protocols for the network signalling

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Functions and Messages Using the Services of ITU-T Recommendation Q.2140</th>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q.2721.1 (07/96)</td>
<td>Withdrawn (05/00)</td>
<td>B-ISDN user part – Overview of the B-ISDN Network Node Interface Signalling Capability Set 2, Step 1</td>
<td>24pp</td>
<td>E 10568 F 10569 S 10570</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Functions and Messages Using the Services of ITU-T Recommendation Q.2140</th>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Functions and Messages Using the Services of ITU-T Recommendation Q.2140</th>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q.2723.1 (07/96)</td>
<td>Withdrawn (05/00)</td>
<td>B-ISDN User Part – Support of additional traffic parameters for Sustainable Cell Rate and Quality of Service</td>
<td>16pp</td>
<td>E 10489 F 10490 S 10491</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Functions and Messages Using the Services of ITU-T Recommendation Q.2140</th>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q.2723.2 (09/97)</td>
<td>Withdrawn (05/00)</td>
<td>Extensions to the B-ISDN User Part – Support of ATM transfer capability in the broadband bearer capability parameter</td>
<td>12pp</td>
<td>E 12719 F 12720 S 12721</td>
</tr>
<tr>
<td>Rec. Number</td>
<td>Title</td>
<td>Status</td>
<td>Pages</td>
<td>E</td>
</tr>
<tr>
<td>--------------</td>
<td>----------------------------------------------------------------------</td>
<td>----------------</td>
<td>-------</td>
<td>-----</td>
</tr>
<tr>
<td>Q.2723.3 (09/97)</td>
<td>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</td>
<td>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</td>
<td>16pp</td>
<td>E12722</td>
</tr>
<tr>
<td>Q.2723.4 (09/97)</td>
<td>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</td>
<td>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</td>
<td>16pp</td>
<td>E12741</td>
</tr>
<tr>
<td>Q.2723.5 (03/99)</td>
<td>Withdrawn (05/00) B-ISDN User Part – Support of cell delay variation tolerance indication</td>
<td>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</td>
<td>16pp</td>
<td>E16543</td>
</tr>
<tr>
<td>Q.2723.6 (05/98)</td>
<td>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</td>
<td>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</td>
<td>8pp</td>
<td>E13601</td>
</tr>
<tr>
<td>Q.2724.1 (07/96)</td>
<td>B-ISDN User Part – Look-ahead without state change for the Network Node Interface</td>
<td></td>
<td>32pp</td>
<td>E10761</td>
</tr>
<tr>
<td>Q.2725.1 (05/98)</td>
<td>Withdrawn (05/00) B-ISDN User Part – Support of negotiation during connection setup</td>
<td>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</td>
<td>16pp</td>
<td>E13715</td>
</tr>
<tr>
<td>Q.2725.2 (07/96)</td>
<td>Withdrawn (05/00) B ISDN User Part – Modification procedures</td>
<td>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</td>
<td>28pp</td>
<td>E10807</td>
</tr>
<tr>
<td>Q.2725.3 (09/97)</td>
<td>Withdrawn (05/00) Extensions to the B-ISDN User Part – Modification procedures for sustainable cell rate parameters</td>
<td>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</td>
<td>12pp</td>
<td>E12598</td>
</tr>
<tr>
<td>Q.2725.4 (05/98)</td>
<td>Withdrawn (05/00) Extensions to the Signalling System No. 7 B-ISDN User Part – Modification procedures with negotiation</td>
<td>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</td>
<td>16pp</td>
<td>E13718</td>
</tr>
<tr>
<td>Q.2726.1 (07/96)</td>
<td>Withdrawn (05/00) B-ISDN user part – ATM end system address</td>
<td></td>
<td>12pp</td>
<td>E10574</td>
</tr>
<tr>
<td>Q.2726.2 (07/96)</td>
<td>B-ISDN user part – Call priority</td>
<td></td>
<td>12pp</td>
<td>E10575</td>
</tr>
<tr>
<td>Q.2726.3 (07/96)</td>
<td>B-ISDN user part – Network generated session identifier</td>
<td></td>
<td>12pp</td>
<td>E19448</td>
</tr>
<tr>
<td>Q.2726.4 (06/00)</td>
<td>Extensions to the B-ISDN User Part – Application generated identifiers</td>
<td></td>
<td>12pp</td>
<td>E19448</td>
</tr>
<tr>
<td>Q.2727 (07/96)</td>
<td>Withdrawn (05/00) B-ISDN user part – Support of frame relay</td>
<td>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</td>
<td>12pp</td>
<td>E10455</td>
</tr>
<tr>
<td>Q.2730 (12/99)</td>
<td>Signalling system No. 7 B-ISDN user part (B-ISUP) – Supplementary services</td>
<td></td>
<td>40pp</td>
<td>E17684</td>
</tr>
<tr>
<td>Q.2735 Stage 3 description for community of interest supplementary services for B-ISDN using SS No. 7</td>
<td></td>
<td></td>
<td>20pp</td>
<td>E12022</td>
</tr>
</tbody>
</table>
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

9pp E 23880 F 23881 S 23882 9 CHF

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

7pp E 23800 F 23801 S 23802 9 CHF

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
94pp E 19668 F 19669 S 19670 39 CHF

B-ISDN application protocols for access signalling

7pp E 25587 F 25588 S 25589 9 CHF

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 (1999) Amendment 1 (12/02) Support for the international emergency preference scheme
11pp E 23825 F 23826 S 23827 9 CHF

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 (1998) 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 the network signalling

Q.2920 (12/03) Broadband integrated services digital network (B-ISDN) – Digital Subscriber Signalling System No. 2 (DSS 2): Call/connection control for the support of ATM-MPLS network interworking
21pp E 25121 F 25122 S 25123 17 CHF

Q.2931 (02/95) Digital Subscriber Signalling System No. 2 – User-Network Interface (UNI) layer 3 specification for basic call/connection control
248pp E 6312 F 6313 S 6314 80 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)
10pp E 6010 F 6009 S 6011 11 CHF

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 (1997) 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.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.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.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

ITU-T Q.2971 C was previously numbered as Q.2971 ter during the approval process

8pp E 18655 F 18656 S 18657 9 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 quinquies during the approval process

12pp E 18640 F 18641 S 18642 12 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

ITU-T Q.2971 F was previously numbered as Q.2971 sexies during the approval process

20pp E 18658 F 18659 S 18660 17 CHF

Q.2971 (1999) Corrigendum 1 (12/99)

Q.2981 (12/99) Broadband integrated services digital network (B-ISDN) and broadband private integrated services network (B-PISN) – Call control protocol

68pp E 19546 F 19547 S 19548 34 CHF

Q.2982 (12/99) Broadband integrated services digital network (B-ISDN) – Digital Subscriber Signalling System No. 2 (DSS2) – Q.2931-based separated call control protocol

28pp E 17669 F 17670 S 17671 17 CHF

Q.2983 (12/99) Broadband integrated services digital network (B-ISDN) – Digital subscriber signalling No. 2 (DSS2) – Bearer control protocol

16pp E 17672 F 17673 S 17674 12 CHF

Q.2984 (12/99) Broadband integrated services digital network (B-ISDN) and broadband private integrated services network (B-PISN) – Pre-negotiation

24pp E 18780 F 18781 S 18782 17 CHF

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

42pp  E 19614  F 19615  S 19616  72 CHF

Supplements to the Series Q Recommendations

Suppl. 1 (10/95)  Signalling System No. 7 testing and planning tools

16pp  E 7003  F 7004  S 7005  11 CHF

Suppl. 2 (09/97)  Intelligent Network user’s guide: Supplement for IN CS-1

Formerly Suppl.1 to ITU-T Recommendation Q.1219

20pp  E 13079  F 13080  S 13081  17 CHF

Suppl. 3 (05/98)  Number portability – Scope and capability set 1 architecture

55pp  E 15895  F 15896  S 15897  22 CHF

Suppl. 5 (03/99)  Number portability – Capability set 2 requirements for service provider portability (Query on release and Dropback)

56pp  E 16399  F 16400  S 16401  17 CHF

Suppl. 6 (03/99)  Technical report TRQ.2000: Roadmap for the TRQ.2xxx-series technical reports

17pp  E 16217  F 16218  S 16219  12 CHF

Suppl. 7 (03/99)  Technical report TRQ.2001: General aspects for the development of unified signalling requirements

84pp  E 16496  F 16497  S 16498  39 CHF

Suppl. 8 (03/99)  Technical report TRQ.2400: Transport control signalling requirements – Signalling requirements for AAL Type 2 link control capability set 1

20pp  E 16220  F 16221  S 16222  17 CHF


36pp  E 18607  F 18607  S 18607  22 CHF

Suppl. 11 (12/99)  Technical Report TRQ.2010: B-ISDN signalling interworking requirements

16pp  E 18627  F 18627  S 18627  12 CHF

Suppl. 12 (12/99)  Technical Report TRQ.2100

172pp  E 19376  F 19377  S 19378  73 CHF

Suppl. 13 (12/99)  Technical Report TRQ.2110

116pp  E 19120  F 19121  S 19122  44 CHF


44pp  E 18684  F 18685  S 18686  22 CHF

Suppl. 15 (12/99)  Technical Report TRQ.2130

62pp  E 18931  F 18932  S 18933  29 CHF

Suppl. 16 (12/99)  Technical Report TRQ.2140

110pp  E 19627  F 19627  S 19627  44 CHF

Suppl. 17 (12/99)  Technical Report TRQ.2200

56pp  E 18912  F 18913  S 18914  29 CHF

Suppl. 18 (12/99)  Technical Report TRQ.2230

44pp  E 18906  F 18907  S 18907  22 CHF

Suppl. 19 (12/99)  Technical Report TRQ.2300

100pp  E 19171  F 19177  S 19178  39 CHF

Suppl. 20 (12/99)  Technical Report TRQ.2320

48pp  E 18900  F 18901  S 18902  22 CHF

Suppl. 21 (12/99)  Technical Report TRQ.3010: Operation of the bearer independant call control (BICC) protocol with AAL type 2 signalling protocol (CS-1)

18pp  E 19412  F 19412  S 19414  12 CHF

Suppl. 22 (12/99)  Technical Report TRQ.3000: Operation of the bearer independant call control (BICC) protocol with digital subscriber signalling system No. 2 (DSS2)

17pp  E 18877  F 18878  S 18879  12 CHF


18pp  E 19412  F 19412  S 19414  12 CHF

Suppl. 24 (12/99)  Technical Report TRQ.3020: Operation of the bearer independant call control (BICC) protocol with broadband integrated services digital network user part (B-ISUP) for AAL Type 1 adaptation

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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
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Standardization of Group 2 facsimile apparatus for document transmission
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T.5/G.511 (02/98) Test methodology for Group 3 facsimile processing equipment in the Public Switched Telephone Network
This text was first approved and published as ITU-T Rec. G.511, and then renumbered as T.5 on 2002-02-15 without further modification
To be published...
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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)
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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

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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

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T.22 (03/93) Standardized test charts for document facsimile transmissions

Figures reproducing test charts in T.22 Annex A are not suited for measurements. Original test charts are available from ITU sales department.

9pp E 4002 F 4001 S 4003 11 CHF

T.23 (04/94) Standardized colour test chart for document facsimile transmissions

Figure reproducing test charts in T.23 Annex A is not suited for measurements. Original test chart is available from ITU sales department.

7pp E 5591 F 5590 S 5592 11 CHF

T.24 (06/98) Standardized digitized image set

This Recommendation includes 2 CD-ROMs containing the digitized image set. Due to the data large volume, this Recommendation is not downloadable from the Electronic Bookshop and should be provided from ITU Sales department (Email Sales@itu.int). ITU-T Rec. T.24 text is downloadable free of charge for information purpose. The specimens reproduced inside this text are given for illustration purposes and are not suitable for measurements.

62pp E 16670 F 16671 S 16672 154 CHF

T.24 (1998) Amendment 1 (02/00)

To be published

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319pp E 25063 F 25064 S 25065 124 CHF

T.30 (2003) Erratum 1 (04/04)

Applies only to English version

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23pp E 6324 F 6325 S 6326 15 CHF

T.31 (1995) Amendment 1 (07/96) Annex B:
Procedure for Service Class 1 support of V.34 modems

20pp E 7493 F 7494 S 7495 17 CHF

T.32 (08/95) Asynchronous facsimile DCE control – Service Class 2

Covering Note 30.10.1997: Corrigendum

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ITU-T 05/04 – Series T 149
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Common text with ISO/IEC

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To be published...


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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:
T.571 (09/92) Terminal characteristics for the telematic file transfer within the teletex service
11pp E 3552 F 3551 S 3553 11 CHF

T.611 (11/94) Programming Communication Interface (PCI) APPLI/COM for facsimile Group 3, facsimile Group 4, teletex, telex, E-mail and file transfer services
228pp E 6047 F 6046 S 6048 75 CHF

T.800 (08/02) Information technology – JPEG 2000 image coding system: Core coding system
212pp E 23644 S 23646 96 CHF

T.801 (08/02) Information technology – JPEG 2000 image coding system: Extensions
334pp E 23650 124 CHF

T.803 (11/02) Information technology – JPEG 2000 image coding system: Conformance testing
To be published...

T.804 (08/02) Information technology – JPEG 2000 image coding system: Reference software
E 22631 F 22632 S 22633 67 CHF

T.870 (03/02) Information technology – Lossless and near-lossless compression of continuous-tone still images: Extensions

This Recommendation includes an electronic attachment containing the data set used for implementing the JPEG-LS T.870 extension conformance test
66pp E 22287 F 22288 S 22289 79 CHF

SERIES U

Telegraph switching

General

U.1 (03/93) Signalling conditions to be applied in the international telex service
11pp E 4970 F 4969 S 4971 11 CHF

U.2 (11/88) Standardization of dials and dial pulse generators for the international telex service

Individually through the Electronic Bookshop: 20 CHF

U.3 (11/88) Arrangements in switching equipment to minimize the effects of false calling signals

Individually through the Electronic Bookshop: 20 CHF

U.4 (11/88) Exchange of information regarding signals destined to be used over international circuits concerned with switched teleprinter networks

Individually through the Electronic Bookshop: 20 CHF

U.5 (11/88) Requirements to be met by regenerative repeaters in international connections

Individually through the Electronic Bookshop: 20 CHF

U.6 (11/88) Prevention of fraudulent transit traffic in the fully automatic international telex service

Individually through the Electronic Bookshop: 20 CHF

U.7 (03/93) Numbering schemes for automatic switching networks
1pp E 4569 F 4568 S 4570 8 CHF

U.8 (11/88) Hypothetical reference connections for telex and gentex networks

Individually through the Electronic Bookshop: 20 CHF

U.10 (03/93) Equipment of an international telex position
1pp E 4614 F 4613 S 4615 8 CHF

Specific signalling schemes and interworking between signalling systems

U.11 (03/93) Telex and gentex signalling on intercontinental circuits used for intercontinental automatic transit traffic (type c signalling)
15pp E 4973 F 4972 S 4974 11 CHF

U.12 (03/93) Terminal and transit control signalling system for telex and similar services on international circuits (type D signalling)
24pp E 5184 F 5234 S 5269 15 CHF

U.15 (03/93) Interworking rules for international signalling systems according to Recommendations U.1, U.11 and U.12
8pp E 5107 F 5106 S 5108 8 CHF

Signalling over radio and multiplexed channels

U.20 (11/88) Telex and gentex signalling on radio channels (synchronous 7-unit systems affording error correction by automatic repetition)

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:

V.6 (11/88)  Withdrawn (03/93)
Standardization of data signalling rates for synchronous data transmission on leased telephonetype circuits

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

V.7 (11/88)  Definitions of terms concerning data communication over the telephone network
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 (1993) Corrigendum 1 (09/98)

V.15 (11/88)  Use of acoustic coupling for data transmission

Individually through the Electronic Bookshop: 20 CHF

V.16 (11/88)  Medical analogue data transmission modems

Individually through the Electronic Bookshop: 20 CHF

V.17 (02/91)  A 2-wire modem for facsimile applications with rates up to 14 400 bit/s
11pp E 1960 F 1959 S 1961 10 CHF

V.17 (1991) Corrigendum 1 (09/98)

V.18 (11/00)  Operational and interworking requirements for DCEs operating in the text telephone mode

74pp E 20233 F 20234 S 20235 34 CHF

V.18 (2000) Amendment 1 (11/02)
8pp E 23076 F 23077 S 23078 9 CHF

V.19 (11/88)  Modems for parallel data transmission using telephone signalling frequencies

Individually through the Electronic Bookshop: 20 CHF

V.20 (11/88)  Withdrawn (03/93)
Parallel data transmission modems standardized for universal use in the general switched telephone network

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

V.21 (11/88)  300 bits per second duplex modem standardized for use in the general switched telephone network

Individually through the Electronic Bookshop: 20 CHF

V.22 bis (11/88)  2400 bits per second duplex modem using the frequency division technique standardized for use on the general switched telephone network and on point-to-point 2-wire leased telephone-type circuits

Individually through the Electronic Bookshop: 20 CHF

V.22 (11/88)  1200 bits per second duplex modem standardized for use in the general switched telephone network and on point-to-point 2-wire leased telephone-type circuits

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.25 (10/96)  Automatic answering equipment and general procedures for automatic calling equipment on the general switched telephone network including procedures for disabling of echo control devices for both manually and automatically established calls

12pp  E 10112  F 10113  S 10114  12 CHF

V.25 bis (10/96)  Synchronous and asynchronous automatic dialling procedures on switched networks

28pp  E 10124  F 10125  S 10226  17 CHF

V.25 (1996) Corrigendum 1 (07/01)

V.26 (11/88)  2400 bits per second modem standardized for use on 4-wire leased telephone-type circuits

*Individually through the Electronic Bookshop:* 20 CHF

V.26 bis (11/88)  2400/1200 bits per second modem standardized for use in the general switched telephone network

*Individually through the Electronic Bookshop:* 20 CHF

V.26 ter (11/88)  2400 bits per second duplex modem using the echo cancellation technique standardized for use on the general switched telephone network and on point-to-point 2-wire leased telephone-type circuits

*Individually through the Electronic Bookshop:* 20 CHF

V.27 (11/88)  4800 bits per second modem with manual equalizer standardized for use on leased telephone-type circuits

*Individually through the Electronic Bookshop:* 20 CHF

V.27 bis (11/88)  4800/2400 bits per second modem with automatic equalizer standardized for use on leased telephone-type circuits

*Individually through the Electronic Bookshop:* 20 CHF

V.27 ter (11/88)  4800/2400 bits per second modem standardized for use in the general switched telephone network

*Individually through the Electronic Bookshop:* 20 CHF

V.28 (03/93)  Electrical characteristics for unbalanced double-current interchange circuits

6pp  E 3974  F 3973  S 3975  8 CHF

V.29 (11/88)  9600 bits per second modem standardized for use on point-to-point 4-wire leased telephone-type circuits

*Individually through the Electronic Bookshop:* 20 CHF

V.31 bis (11/88)  Electrical characteristics for single-current interchange circuits using optocouplers

*Individually through the Electronic Bookshop:* 20 CHF

V.31 (11/88)  Electrical characteristics for single-current interchange circuits controlled by contact closure

*Individually through the Electronic Bookshop:* 20 CHF

V.32 bis (02/91)  A duplex modem operating at data signalling rates of up to 14 400 bit/s for use on the general switched telephone network and on leased point-to-point 2-wire telephone-type circuits


V.32 (03/93)  A family of 2-wire, duplex modems operating at data signalling rates of up to 9600 bit/s for use on the general switched telephone network and on leased telephone-type circuits

23pp  E 4050  F 4049  S 4051  15 CHF

V.33 (11/88)  14 400 bits per second modem standardized for use on point-to-point 4-wire leased telephone-type circuits

*Individually through the Electronic Bookshop:* 20 CHF

V.34 (02/98)  A modem operating at data signalling rates of up to 33 600 bit/s for use on the general switched telephone network and on leased point-to-point 2-wire telephone-type circuits

76pp  E 13500  F 13501  S 13502  34 CHF

**Wideband modems**

V.35 (10/84)  Withdrawn (03/93)

Data transmission at 48 kbit/s using 60-108 kHz group band circuits

*Deleted because the information contained in V.35 was out of date. Alternative techniques are described in ITU-T V.36 and V.37*

*Individually through the Electronic Bookshop:* 20 CHF

V.36 (11/88)  Modems for synchronous data transmission using 60-108 kHz group band circuits

*Individually through the Electronic Bookshop:* 20 CHF
<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>V.37 (11/88)</td>
<td>Synchronous data transmission at a data signalling rate higher than 72 kbit/s using 60-108 kHz group band circuits</td>
</tr>
<tr>
<td>V.38 (10/96)</td>
<td>A 48/56/64 kbit/s data circuit-terminating equipment standardized for use on digital point-to-point leased circuits</td>
</tr>
<tr>
<td>V.39 (11/88)</td>
<td>Code-independent error-control system</td>
</tr>
<tr>
<td>V.40 (11/88)</td>
<td>Error indication with electromechanical equipment</td>
</tr>
<tr>
<td>V.41 (11/88)</td>
<td>Code-independent error-control system</td>
</tr>
<tr>
<td>V.42 bis (01/90)</td>
<td>Data compression procedures for data circuit-terminating equipment (DCE) using error correction procedures</td>
</tr>
<tr>
<td>V.42 (03/02)</td>
<td>Error-correcting procedures for DCEs using asynchronous-to-synchronous conversion</td>
</tr>
<tr>
<td>V.42 (2002) Corrigendum 1 (07/03)</td>
<td></td>
</tr>
<tr>
<td>V.43 (02/98)</td>
<td>Data flow control</td>
</tr>
<tr>
<td>V.44 (11/00)</td>
<td>Data compression procedures</td>
</tr>
<tr>
<td>V.44 (2000) Corrigendum 1 (03/02)</td>
<td></td>
</tr>
<tr>
<td>V.45</td>
<td></td>
</tr>
<tr>
<td>V.46</td>
<td></td>
</tr>
<tr>
<td>V.47</td>
<td></td>
</tr>
<tr>
<td>V.48 bis (01/90)</td>
<td></td>
</tr>
<tr>
<td>V.48 (03/93)</td>
<td></td>
</tr>
<tr>
<td>V.49</td>
<td></td>
</tr>
<tr>
<td>V.50 (11/88)</td>
<td>Standard limits for transmission quality of data transmission</td>
</tr>
<tr>
<td>V.51 (11/88)</td>
<td>Organization of the maintenance of international telephone-type circuits used for data transmission</td>
</tr>
<tr>
<td>V.52 (12/72)</td>
<td>Withdrawn (11/88)</td>
</tr>
<tr>
<td>V.53 (11/88)</td>
<td>Limits for the maintenance of telephone-type circuits used for data transmission</td>
</tr>
<tr>
<td>V.54 (11/88)</td>
<td>Loop test devices for modems</td>
</tr>
<tr>
<td>V.55 (11/88)</td>
<td>Specification for an impulsive noise measuring instrument for telephone-type circuits</td>
</tr>
<tr>
<td>V.56 bis (08/95)</td>
<td>Network transmission model for evaluating modem performance over 2-wire voice grade connections</td>
</tr>
<tr>
<td>V.56 (11/88)</td>
<td>Comparative tests of modems for use over telephone-type circuits</td>
</tr>
<tr>
<td>V.56 ter (08/96)</td>
<td>Test procedure for evaluation of 2-wire 4 kHz voiceband duplex modems</td>
</tr>
<tr>
<td>V.57 (10/84)</td>
<td>Withdrawn (11/88)</td>
</tr>
<tr>
<td>V.58 (09/94)</td>
<td>Management information model for V-Series DCEs</td>
</tr>
<tr>
<td>V.59 (11/00)</td>
<td>Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE’s</td>
</tr>
<tr>
<td>V.59 (2000) Corrigendum 1 (07/01)</td>
<td></td>
</tr>
<tr>
<td>V.59 (2000) Corrigendum 2 (03/02)</td>
<td></td>
</tr>
</tbody>
</table>
Simultaneous transmission of data and other signals

**V.61 (08/96)** A simultaneous voice plus data modem, operating at a voice plus data signalling rate of 4800 bit/s, with optional automatic switching to data-only signalling rates of up to 14 400 bit/s, for use on the general switched telephone network and on leased point-to-point 2-wire telephone type circuits

36pp  E 9950  F 9951  S 9952  22 CHF

**V.70 (08/96)** Procedures for the simultaneous transmission of data and digitally encoded voice signals over the GSTN, or over 2-wire leased point-to-point telephone type circuits

20pp  E 9833  F 9834  S 9835  17 CHF

**V.75 (08/96)** DSVD terminal control procedures

24pp  E 9836  F 9837  S 9838  17 CHF

**V.75 Appendix II (02/98)** Session establishment using V.75/H.245 procedures

12pp  E 13403  F 13404  S 13405  12 CHF

**V.76 (08/96)** Generic multiplexer using V.42 LAPM-based procedures

56pp  E 9839  F 9840  S 9841  29 CHF

**V.80 (08/96)** In-band DCE control and synchronous data modes for asynchronous DTE

36pp  E 9953  F 9954  S 9955  22 CHF

**V.80 (1996) Amendment 1 (07/01)** ITU-T Amendment 1 (07/01) to Recommendation V.80 – In-Band DCE Control and Synchronous Data Modes for Asynchronous DTE

8pp  E 20984  F 20985  S 20986  9 CHF

**V.90 (09/95)** A digital modem and analogue modem pair for use on the Public Switched Telephone Network (PSTN) at data signalling rates of up to 56 000 bit/s downstream and up to 33 600 bit/s upstream

52pp  E 14610  F 14611  S 14612  22 CHF

**V.91 (05/99)** A digital modem operating at data signalling rates of up to 64 000 bit/s for use on a 4-wire circuit switched connection and on leased point-to-point 4-wire digital circuits

20pp  E 16754  F 16755  S 16756  17 CHF

**V.91 (1999) Corrigendum 1 (07/01)**

**V.92 (11/00)** Enhancements to Recommendation V.90

76pp  E 20395  F 20396  S 20397  34 CHF

**V.92 (2000) Amendment 1 (07/01)** ITU-T Amendment 1 (07/01) to Recommendation V.92 – Enhancements to Recommendation V.90

12pp  E 20992  F 20993  S 20994  9 CHF

**V.92 (2000) Amendment 2 (03/02)** Enhancements to Recommendation V.90

8pp  E 22218  F 22219  S 22220  9 CHF

Error control

**V.92 (2000) Corrigendum 1 (07/03)**

Interworking with other networks

**V.100 (11/88)** Interconnection between public data networks (PDNs) and the public switched telephone networks (PSTN)  
*Individually through the Electronic Bookshop:*  20 CHF

**V.110 (02/00)** Support by an ISDN of data terminal equipments with V-Series type interfaces  
*This Recommendation is also included but not published in I Series under alias number I.463.*

68pp  E 18325  F 18326  S 18327  29 CHF

**V.120 (10/96)** Support by an ISDN of data terminal equipment with V-Series type interfaces with provision for statistical multiplexing  
*This Recommendation is also included but not published in I series under alias number I.465*

44pp  E 10118  F 10119  S 10120  22 CHF

**V.120 (1996) Corrigendum 1 (05/99)**

**V.130 (08/95)** ISDN terminal adaptor framework

20pp  E 6405  F 6406  S 6407  15 CHF

**V.140 (02/98)** Procedures for establishing communication between two multiprotocol audiovisual terminals using digital channels at a multiple of 64 or 56 kbit/s

40pp  E 13406  F 13407  S 13408  22 CHF
V.150.0 (01/03) Modem-over-IP networks: Foundation
12pp E 23282 F 23283 S 23284 9 CHF

V.150.1 (01/03) Modem-over-IP networks: Procedures for the end-to-end connection of V-series DCEs
136pp E 25303 55 CHF

V.150.1 (2003) Corrigendum 1 (07/03)
To be published
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

V.250 (07/03) Serial asynchronous automatic dialling and control
104pp E 25088 F 25089 S 25090 44 CHF

Control procedures

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 (08/96) Procedure for DTE-controlled call negotiation
Approved and published as ITU-T V.25 ter/Annex A (08/96), included without further modification in V.25 ter (07/97), renumbered V.251 on 6 February 1998 and republished without further modifications
1pp E 16917 F 16918 S 16919 17 CHF

V.251 (1996) Erratum 1 (10/03)

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
X.10 (03/93) Withdrawn (10/96)
Categories of access for Data Terminal Equipment (DTE) to public data transmission services

Deleted as its content is fully covered by ITU-T X.1

X.15 (10/84) Withdrawn (11/88)
Definitions of terms concerning public data networks

Withdrawn on 25.11.1988

Interfaces

X.20 (11/88) Interface between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for start-stop transmission services on public data networks

Individually through the Electronic Bookshop: 20 CHF

X.20 bis (11/88) Use on public data networks of Data Terminal Equipment (DTE) which is designed for interfacing to asynchronous duplex V-Series modems

Individually through the Electronic Bookshop: 20 CHF

X.21 (09/92) Interface between Data Terminal Equipment and Data Circuit-terminating Equipment for synchronous operation on public data networks

56pp E 3105 F 3104 S 3106 24 CHF

X.21 bis (11/88) Use on public data networks of Data Terminal Equipment (DTE) which is designed for interfacing to synchronous V-Series modems

Individually through the Electronic Bookshop: 29 CHF

X.22 (11/88) Multiplex DTE/DCE interface for user classes 3-6

Individually through the Electronic Bookshop: 20 CHF

X.24 (11/88) List of definitions for interchange circuits between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) on public data networks

Individually through the Electronic Bookshop: 20 CHF

X.25 (10/96) Interface between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for terminals operating in the packet mode and connected to public data networks by dedicated circuit

168pp E 9971 F 9972 S 9973 73 CHF


X.26 (03/93) Electrical characteristics for unbalanced double-current interchange circuits operating at data signalling rates nominally up to 100 kbit/s

This Recommendation is published under alias number V.10

X.27 (10/96) Electrical characteristics for balanced double-current interchange circuits operating at data signalling rates up to 10 Mbit/s

This Recommendation is published under alias number V.11

X.28 (12/97) DTE/DCE interface for a start-stop mode Data Terminal Equipment accessing the Packet Assembly/Disassembly facility (PAD) in a public data network situated in the same country

60pp E 12820 F 12821 S 12822 29 CHF

X.28 (1997) Amendment 1 (03/00) Extensions of PAD parameter settings and PAD service signals

8pp E 19767 F 19768 S 19769 9 CHF

X.29 (12/97) Procedures for the exchange of control information and user data between a Packet Assembly/Disassembly (PAD) facility and a packet mode DTE or another PAD

20pp E 12683 F 12684 S 12685 17 CHF

X.30 (03/93) Support of X.21, X.21 bis and X.20 bis based Data Terminal Equipments (DTEs) by an Integrated Services Digital Network (ISDN)

This Recommendation is also included but not published in I series under alias number I.461

43pp E 3811 F 3810 S 3812 20 CHF

X.31 (11/95) Support of packet mode terminal equipment by an ISDN

This Recommendation is also included but not published in I series under alias number I.462

68pp E 6509 F 6510 S 6511 30 CHF

X.32 (10/96) Interface between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for terminals operating in the packet mode and accessing a packet-switched public data network through a public switched telephone network or an integrated services digital network or a circuit-switched public data network

60pp E 9666 F 9667 S 9668 29 CHF

X.33 (10/96) Access to packet-switched data transmission services via frame relaying data transmission services

40pp E 9739 F 9740 S 9741 22 CHF
X.34 (10/96) Access to packet-switched data transmission services via B-ISDN
60pp E 9669 F 9670 S 9671 17 CHF

X.34 (1996) Corrigendum 1 (03/00)

X.35 (11/93) Interface between a PSPDN and a private PSDN which is based on X.25 procedures and enhancements to define a gateway function that is provided in the PSPDN
40pp E 5307 F 5294 S 5317 20 CHF

X.36 (02/03) Interface between data terminal equipment (DTE) and data circuit-terminating equipment (DCE) for public data networks providing frame relay data transmission service by dedicated circuit
157pp E 24075 F 24076 S 24077 61 CHF

X.37 (04/95) Encapsulation in X.25 packets of various protocols including frame relay
48pp E 6332 F 6333 S 6334 25 CHF

X.38 (10/96) G3 facsimile equipment/DCE interface for G3 facsimile equipment accessing the Facsimile Packet Assembly/Disassembly facility (FPAD) in a public data network situated in the same country
60pp E 9785 F 9786 S 9787 29 CHF

X.39 (10/96) Procedures for the exchange of control information and user data between a Facsimile Packet Assembly/Disassembly (FPAD) facility and a packet mode Data Terminal Equipment (DTE) or another FPAD
36pp E 9791 F 9792 S 9793 22 CHF

X.40 (11/88) Withdrawn (03/93)
Standardization of frequency-shift modulated transmission systems for the provision of telegraph and data channels by frequency division of a group
Withdrawn on 12.03.1993

X.42 (10/03) Procedures and methods for accessing a public data network from a DTE operating under control of a generalized polling protocol
34pp E 24960 F 24961 S 24962 17 CHF

X.45 (10/96) Interface between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for terminals operating in the packet mode and connected to public data networks, designed for efficiency at higher speeds
100pp E 10349 F 10350 S 10351 44 CHF

X.46 (09/98) Access to FRDTS via B-ISDN
28pp E 15592 F 15593 S 15594 17 CHF

X.48 (10/96) Procedures for the provision of a basic multicast service for Data Terminal Equipments (DTEs) using Recommendation X.25
32pp E 9755 F 9756 S 9757 22 CHF

X.49 (10/96) Procedures for the provision of an extended multicast service for Data Terminal Equipments (DTEs) using Recommendation X.25
68pp E 10141 F 10142 S 10143 34 CHF

Transmission, signalling and switching

X.50 bis (11/88) Fundamental parameters of a 48-kbit/s user data signalling rate transmission scheme for the international interface between synchronous data networks
Individually through the Electronic Bookshop: 20 CHF

X.50 (11/88) Fundamental parameters of a multiplexing scheme for the international interface between synchronous data networks
Individually through the Electronic Bookshop: 20 CHF

X.51 (11/88) Fundamental parameters of a multiplexing scheme for the international interface between synchronous data networks using 10-bit envelope structure
Individually through the Electronic Bookshop: 20 CHF

X.51 bis (11/88) Fundamental parameters of a 48-kbit/s user data signalling rate transmission scheme for the international interface between synchronous data networks using 10-bit envelope structure
Individually through the Electronic Bookshop: 20 CHF

X.52 (11/88) Method of encoding anisochronous signals into a synchronous user bearer
Individually through the Electronic Bookshop: 20 CHF

X.53 (03/93) Numbering of channels on international multiplex links at 64 kbit/s
1pp E 4575 F 4574 S 4576 8 CHF
X.54 (11/88) Allocation of channels on international multiplex links at 64 kbit/s

Individually through the Electronic Bookshop: 20 CHF

X.55 (11/88) Interface between synchronous data networks using a 6 + 2 envelope structure and single channel per carrier (SCPC) satellite channels

Individually through the Electronic Bookshop: 20 CHF

X.56 (11/88) Interface between synchronous data networks using an 8 + 2 envelope structure and single channel per carrier (SCPC) satellite channels

Individually through the Electronic Bookshop: 20 CHF

X.57 (11/88) Method of transmitting a single lower speed data channel on a 64 kbit/s data stream

Individually through the Electronic Bookshop: 20 CHF

X.58 (11/88) Fundamental parameters of a multiplexing scheme for the international interface between synchronous non-switched data networks using no envelope structure

Individually through the Electronic Bookshop: 20 CHF

X.60 (11/88) Common channel signalling for circuit-switched data applications

Individually through the Electronic Bookshop: 20 CHF

X.61 (11/88) Withdrawn (11/88)

Signalling System No. 7 – Data user part

This Recommendation was also included but not published in Q series under alias number Q.741. It was discontinued because it was no longer used

Individually through the Electronic Bookshop: 29 CHF

X.70 (11/88) Terminal and transit control signalling system for start-stop services on international circuits between anisochronous data networks

Individually through the Electronic Bookshop: 22 CHF

X.71 (11/88) Decentralized terminal and transit control signalling system on international circuits between synchronous data networks

Individually through the Electronic Bookshop: 22 CHF

X.75 (10/96) Packet-switched signalling system between public networks providing data transmission services

128pp E 10130 F 10131 S 10132 49 CHF

X.75 (1996) Corrigendum 1 (09/98)

X.76 (02/03) Network-to-network interface between public networks providing PVC and/or SVC frame relay data transmission service

108pp E 24192 F 24193 S 24194 44 CHF

X.77 (08/97) Interworking between PSPDNs via B-ISDN

28pp E 12432 F 12433 S 12434 17 CHF

X.77 (1997) Corrigendum 1 (03/00)

X.78 (06/99) Interworking procedures between networks providing frame relay data transmission services via B-ISDN

24pp E 16424 F 16425 S 16426 17 CHF

X.78 (1999) Corrigendum 1 (03/00)

X.80 (11/88) Interworking of interexchange signalling systems for circuit-switched data services

Individually through the Electronic Bookshop: 20 CHF

X.81 (11/88) Interworking between an ISDN circuit-switched and a circuit-switched public data network (CSPDN)

Individually through the Electronic Bookshop: 20 CHF

X.82 (11/88) Detailed arrangements for interworking between CSPDNs and PSPDNs based on Recommendation T.70

Individually through the Electronic Bookshop: 20 CHF

X.85/Y.1321 (03/01) IP over SDH using LAPS

28pp E 20810 F 20811 S 20812 17 CHF

X.85/Y.1321 (03/00) Withdrawn (03/00)

IP over SDH using LAPS

28pp E 20810 F 20811 S 20812 17 CHF

Transmission, signalling and switching

X.85/Y.1321 (03/00) Withdrawn (03/00)

IP over SDH using LAPS

28pp E 19227 F 20811 S 20812 17 CHF

X.86/Y.1323 (2001) Amendment 1 (04/02) Using Ethernet flow control as rate limiting

12pp E 22440 F 22441 S 22442 9 CHF

X.86/Y.1323 (02/01) Ethernet over LAPS

20pp E 21904 F 21905 S 21906 12 CHF
X.87/Y.1324 (10/03) Multiple services ring based on RPR
To be published...

Network aspects

X.92 (11/88) Hypothetical reference connections for public synchronous data networks
Individually through the Electronic Bookshop: 20 CHF

X.96 (03/00) Call progress signals in public data networks
16pp E 18045 F 18046 S 18047 12 CHF

Network aspects

X.110 (04/02) International routing principles and routing plan for Public Data Networks
20pp E 22445 F 22446 S 22447 17 CHF

Network aspects

X.111 (02/03) Principles for the routing of international frame relay traffic
26pp E 23773 F 23774 S 23775 17 CHF

Network aspects

X.115 (04/95) Definition of address translation capability in public data networks
16pp E 6272 F 6273 S 6274 15 CHF

8pp E 10525 F 10526 S 10527 9 CHF

X.116 (10/96) Address translation registration and resolution protocol
28pp E 10535 F 10536 S 10537 17 CHF

X.121 (10/00) International numbering plan for public data networks
35pp E 19931 F 19932 S 19933 22 CHF

International operation

Numbering plan of the international telephone service

X.122/E.166 (03/98) Numbering plan interworking for the E.164 and X.121 numbering plans
This Recommendation is published with the double number E.166 and X.122
44pp E 13314 F 10010 S 10011 22 CHF

Public data networks

Network aspects

X.123 (10/96) Mapping between escape codes and TOA/NPI for E.164/X.121 numbering plan interworking during the transition period
8pp E 9722 F 9723 S 9724 9 CHF

X.124 (06/99) Arrangements for the interworking of the E.164 and X.121 numbering plans for frame relay and ATM networks
28pp E 16390 F 16391 S 16392 17 CHF

X.125 (09/98) Procedure for the notification of the assignment of international network identification codes for public frame relay data networks and ATM networks numbered under the E.164 numbering plan
12pp E 15443 F 15444 S 15445 12 CHF

X.130 (11/88) Call processing delays in public data networks when providing international synchronous circuit-switched data services
Individually through the Electronic Bookshop: 20 CHF

X.131 (11/88) Call blocking in public data networks when providing international synchronous 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
36pp E 12505 F 12506 S 12507 22 CHF

Network aspects

X.135 Supplement 1 (08/97) Some test results from specific national and international portions
Published with ITU-T X.135 (1997)
To be published...
Network aspects

X.136 (08/97) Accuracy and dependability performance values for public data networks when providing international packet-switched services
20pp E 12009 F 12010 S 12011 17 CHF

X.137 (08/97) Availability performance values for public data networks when providing international packet-switched services
20pp E 12000 F 12001 S 12002 17 CHF

X.138 (08/97) Measurement of performance values for public data networks when providing international packet-switched services
44pp E 12043 F 12044 S 12045 22 CHF

X.139 (08/97) Echo, drop, generator and test DTEs for measurement of performance values in public data networks when providing international 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.142 (10/03) Quality of service metrics for characterizing Frame Relay /ATM service interworking performance
14pp E 24913 F 24914 S 24915 12 CHF

X.144 (10/03) User information transfer performance parameters for public frame relay data networks
36pp E 24867 F 24868 S 24869 17 CHF

X.145 (10/03) Connection establishment and disengagement performance parameters for public frame relay data networks providing SVC services
24pp E 25069 F 25070 S 25071 17 CHF

X.146 (10/00) Performance objectives and quality of service classes applicable to frame relay
24pp E 19937 F 19938 S 19939 17 CHF

X.147 (10/03) Frame Relay network availability
28pp E 24801 F 24802 S 24803 17 CHF

Network aspects

X.148 (02/03) Procedures for the measurement of the performance of public data networks providing the international frame relay service
34pp E 23860 F 23861 S 23862 17 CHF

Network aspects

X.149 (10/03) Performance of IP networks when supported by public frame relay data networks
33pp E 24956 F 24957 S 24958 17 CHF

Maintenance

X.150 (11/88) Principles of maintenance testing for public data networks using Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) test loops
Individually through the Electronic Bookshop: 20 CHF

X.151 (10/03) Frame Relay operations and maintenance – Principles and functions
50pp E 25066 F 25067 S 25068 22 CHF

X.151 (2003) Erratum 1 (03/04)
Applies to English version only

Network aspects

X.160 (10/96) Architecture for customer network management service for public data networks
20pp E 10480 F 10481 S 10482 17 CHF

X.161 (08/97) Definition of customer network management services for public data networks
28pp E 12610 F 12611 S 12612 17 CHF

X.162 (03/00) Definition of management information for customer network management service for public data networks to be used with the CNMc interface
232pp E 18727 F 18728 S 18729 96 CHF
X.163 (04/95)  Definition of management information for customer network management service for public data networks to be used with the CNMe interface

72pp  E 6435  F 6436  S 6437  30 CHF

X.170 (06/99)  Network-network management architecture for data networks

20pp  E 16456  F 16457  S 16458  17 CHF

X.171 (03/00)  Network-network management services for data networks

22pp  E 19633  F 19634  S 19635  12 CHF

Administrative arrangements

X.180 (11/88)  Administrative arrangements for international closed user groups (CUGs)

Individually through the Electronic Bookshop:  20 CHF

X.181 (11/88)  Administrative arrangements for the provision of international permanent virtual circuits (PVCs)

Individually through the Electronic Bookshop:  20 CHF

Open Systems Interconnection

Model and notation

X.200 (07/94)  Information technology – Open Systems Interconnection – Basic Reference Model: The basic model

Common text with ISO/IEC

59pp  E 5139  F 5640  S 5641  24 CHF

X.207 (11/93)  Information technology – Open Systems Interconnection – Application layer structure

Common text with ISO/IEC

20pp  E 4517  F 5247  S 5283  15 CHF

X.208 (11/88)  Withdrawn (10/02)

Specification of Abstract Syntax Notation One (ASN.1)

CCITT Recommendation X.208 has been withdrawn on 30 October 2002 as it has been superseded by ITU-T Recommendation X.680-683. All known defects in X.208 have been corrected in ITU-T Recommendations X.680-683 (1993) further revised in 1997 and 2002. If you are a protocol designer creating new ASN.1 notation, you should use the 2002 version of ASN.1 encoding rules as defined in ITU-T Recommendations X.690-X.693 (2002) instead of using CCITT Recommendation X.208. For further information, please see 'Changing from ASN.1:1988 to ASN.1:2002' on the ITU-T Study Group 17 web page.

Individually through the Electronic Bookshop:  34 CHF

X.209 (11/88)  Withdrawn (10/02)

Specification of Basic Encoding Rules for Abstract Syntax Notation One (ASN.1)

CCITT Recommendation X.209 has been withdrawn on 30 October 2002 as it has been superseded by ITU-T Recommendation X.690. All known defects in X.209 have been corrected in ITU-T Recommendation X.690 (1993) further revised in 1997 and 2002. If you are a protocol designer creating new ASN.1 notation, you should use the 2002 version of ASN.1 encoding rules as defined in ITU-T Recommendations X.690-X.693 (2002) instead of using CCITT Recommendation X.209.

Individually through the Electronic Bookshop:  20 CHF

Service definitions

X.210 (11/93)  Information technology – Open systems interconnection – Basic Reference Model: Conventions for the definition of OSI services

Common text with ISO/IEC

25pp  E 5412  F 5945  S 5709  15 CHF

X.211 (11/95)  Information technology – Open systems interconnection – Physical service definition

Common text with ISO/IEC

32pp  E 6757  F 7347  S 7348  17 CHF

X.212 (11/95)  Information technology – Open systems interconnection – Data Link service definition

Common text with ISO/IEC

32pp  E 6772  F 7442  S 7443  17 CHF

X.213 (10/01)  Information technology – Open Systems Interconnection – Network service definition

70pp  E 21388  F 21389  S 21390  34 CHF

X.214 (11/95)  Information technology – Open Systems Interconnection – Transport service definition

Common text with ISO/IEC

36pp  E 6731  F 7048  S 7049  17 CHF

X.215 (11/95)  Information technology – Open Systems Interconnection – Session service definition

Common text with ISO/IEC

100pp  E 6733  F 6837  S 6838  39 CHF


8pp  E 12367  F 12368  S 12369  9 CHF
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 (1994) Amendment 1 (08/97)  Efficiency enhancements
8pp E 12370 F 12371 S 12372 9 CHF

X.216 (1994) Amendment 2 (12/97)  Nested connections functional unit
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.217 bis (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

8pp E 10866 F 10867 S 10868 9 CHF

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 (1995) 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 (1993) 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 (1995) Amendment 1 (08/97)  Relaxation of class conformance requirements and expedited data service feature negotiation
8pp E 12373 F 12374 S 12375 9 CHF

Common text with ISO/IEC
180pp E 6734 F 9842 S 9843 73 CHF

X.225 (1995) Amendment 1 (08/97)  Efficiency enhancements
36pp E 12223 F 12224 S 12225 22 CHF

16pp E 12901 F 12902 S 12903 12 CHF

X.225 (1995) Technical Cor. 1 (03/00)

Common text with ISO/IEC
60pp E 5364 F 5949 S 5711 29 CHF

X.226 (1994) Amendment 1 (08/97)  Nested connections functional unit
24pp E 12226 F 12227 S 12228 17 CHF
X.226 (1994) Amendment 2 (12/97)  Nested connections functional unit  

8pp  E 12839  F 12840  S 12841  9 CHF

X.227 (04/95)  Information technology – Open Systems Interconnection – Connection-oriented protocol for the Association Control Service Element: Protocol specification  

44pp  E 6743  F 9956  S 9957  22 CHF

X.227 bis (09/98)  Information technology – Open Systems Interconnection – Connection-mode protocol for the Application Service Object Association Control Service Element  

Common text with ISO/IEC  

82pp  E 14499  F 14500  S 14501  34 CHF

X.227 (1995) Amendment 1 (10/96)  Incorporation of extensibility markers  

12pp  E 10869  F 10870  S 10871  12 CHF


8pp  E 12376  F 12377  S 12378  9 CHF

X.228 (1988) Corrigendum 1 (03/00)  Reliable Transfer: Protocol specification  

Individually through the Electronic Bookshop:  34 CHF

X.228 (11/88)  Reliable Transfer: Protocol specification  

Individually through the Electronic Bookshop:  20 CHF

Connectionless-mode protocol specifications

X.233 (08/97)  Information technology – Protocol for providing the connectionless-mode network service: Protocol specification  

Common text with ISO/IEC  

64pp  E 12823  F 12824  S 12825  29 CHF

X.234 (07/94)  Information technology – Protocol for providing the OSI connectionless-mode transport service  

Common text with ISO/IEC  

8pp  E 5621  F 5981  S 5712  15 CHF

X.234 (1994) Amendment 1 (11/95)  Addition of connectionless-mode multicast capability  

8pp  E 7305  F 7306  S 7307  9 CHF

X.235 (04/95)  Information technology – Open Systems Interconnection – Connectionless Session protocol: Protocol specification  

Common text with ISO/IEC  

16pp  E 6424  F 6854  S 6855  11 CHF


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


12pp  E 16229  F 16230  S 16231  12 CHF

X.237 (04/95)  Information technology – Open Systems Interconnection – Connectionless protocol for the Association Control Service Element: Protocol specification  

Common text with ISO/IEC  

20pp  E 6285  F 6485  S 6628  15 CHF

X.237 bis (09/98)  Information technology – Open Systems Interconnection – Connectionless protocol for the Application Service Object Association Control Service Element  

Common text with ISO/IEC  

24pp  E 14402  F 14403  S 14404  17 CHF


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:
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

Common text with ISO/IEC
28pp E 9844 F 9845 S 9846 17 CHF

Common text with ISO/IEC
16pp E 9847 F 9848 S 9849 12 CHF

Common text with ISO/IEC
20pp E 6776 F 9557 S 9558 17 CHF

Common text with ISO/IEC
16pp E 6777 F 9558 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

8pp E 10678 F 10679 S 10680 9 CHF

Protocol Identification

X.260 (10/96) Information technology – Framework for protocol identification and encapsulation
Common text with ISO/IEC
24pp E 9938 F 9939 S 9940 17 CHF

X.263 (09/98) Information technology – Protocol identification in the Network Layer
Common text with ISO/IEC
24pp E 14471 F 14472 S 14473 17 CHF

X.264 (11/93) Transport protocol identification mechanism
6pp E 5110 F 5109 S 5111 8 CHF

Security Protocols

X.272 (03/00) Data compression and privacy over frame relay networks
41pp E 19834 F 19835 S 19836 22 CHF

X.273 (07/94) Information technology – Open Systems Interconnection – Network layer security protocol
Common text with ISO/IEC
108pp E 5622 F 6255 S 6180 44 CHF

X.274 (07/94) Information technology – Telecommunication and information exchange between systems – Transport layer security protocol
Common text with ISO/IEC
50pp E 5553 F 6287 S 6288 24 CHF

Layer Managed Objects

X.281 (06/99) Information technology – Elements of management information related to the OSI Physical Layer
24pp E 16132 F 16133 S 16134 17 CHF
X.282 (06/99) Elements of management information related to the OSI Data Link layer
136pp E 16464 F 16465 S 16466 55 CHF

X.283 (12/97) Information technology – Elements of management information related to the OSI Network layer
Common text with ISO/IEC
288pp E 13122 F 13123 S 13124 96 CHF

X.284 (12/97) Information technology – Elements of management information related to the OSI Transport Layer
Common text with ISO/IEC
164pp E 13125 F 13126 S 13127 73 CHF

X.287 (03/99) Information technology – Open Systems Interconnection – Structure of management information: Managed objects for supporting upper layers
44pp E 16402 F 16403 S 16404 22 CHF

Conformance testing

X.290 (04/95) OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – General concepts
60pp E 6639 F 6640 S 6641 25 CHF

X.291 (04/95) OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – Abstract test suite specification
48pp E 6402 F 6403 S 6404 20 CHF

X.292 (05/02) OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – The Tree And Tabular Combined Notation (TTCN)
248pp E 22903 F 22904 S 22905 96 CHF

X.293 (04/95) OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – Test realization
20pp E 6656 F 6657 S 6658 15 CHF

X.294 (04/95) OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – Requirements on test laboratories and clients for the conformance assessment process
44pp E 6659 F 6660 S 6661 20 CHF

X.295 (04/95) OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – Protocol profile test specification
24pp E 6642 F 6643 S 6644 15 CHF

X.296 (11/95) OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – Implementation conformance statements
64pp E 7250 F 7251 S 7252 29 CHF

Interworking between networks

General

X.300 (10/96) General principles for interworking between public networks and between public networks and other networks for the provision of data transmission services
56pp E 10792 F 10793 S 10794 29 CHF

X.301 (10/96) Description of the general arrangements for call control within a subnetwork and between subnetworks for the provision of data transmission services
72pp E 10176 F 10177 S 10178 34 CHF

X.302 (11/88) Description of the general arrangements for internal network utilities within a subnetwork and intermediate utilities between subnetworks for the provision of data transmission services
Individually through the Electronic Bookshop: 20 CHF

X.305 (11/88) Functionalities of subnetworks relating to the support of the OSI connection-mode network service
Individually through the Electronic Bookshop: 20 CHF

X.320 (10/96) General arrangements for interworking between integrated services digital networks (ISDNs) for the provision of data transmission services
20pp E 10147 F 10148 S 10149 17 CHF
X.321 (10/96) General arrangements for interworking between Circuit-Switched Public Data Networks (CSPDNs) and Integrated Services Digital Networks (ISDNs) for the provision of data transmission services

This Recommendation is also included but not published in I series under alias number I.340

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 Circuit-Switched Public Data Networks (CSPDNs) for the provision of data transmission services

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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.350

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)

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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

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X.352 (11/88) Interworking between packet-switched public data networks and public maritime mobile satellite data transmission systems

Individually through the Electronic Bookshop: 20 CHF

X.353 (11/88) Routing principles for interconnecting public maritime mobile satellite data transmission systems with public data networks

Individually through the Electronic Bookshop: 20 CHF

X.361 (10/96) Connection of VSAT systems with Packet-Switched Public Data Networks based on X.25 procedures

24pp E 10355 F 10356 S 10357 17 CHF
X.370 (11/88) Withdrawn (10/96)
Arrangements for the transfer of internetwork management information

Deleted because it was such a general Recommendation that it served no useful practical purpose

Individually through the Electronic Bookshop:

X.371/Y.1402 (02/01) General arrangements for interworking between Public Data Networks and the Internet
19pp E 21749 F 21750 S 21751 12 CHF

Message Handling Systems

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

X.402 (06/99) Information technology – Message Handling Systems (MHS) – Overall Architecture
Common text with ISO/IEC
108pp E 17401 F 17401 44 CHF

X.403 (11/88) Withdrawn (11/95)
Message handling systems: conformance testing
Common text with ISO/IEC

This Recommendation was withdrawn because conformance testing concepts and methods defined in it were related to the 1984 MHS Recommendations and were not aligned with either the first or second versions of conformance testing standards. ITU-T X.480 (1992) refers to the 1988 'Blue Book' MHS Recommendations and was better aligned with the testing standards

Individually through the Electronic Bookshop:

Common text with ISO/IEC
64pp E 16427 F 16428 S 16429 29 CHF

X.407 (11/88) Withdrawn (11/95)
Message handling systems: Abstract service definition conventions
Common text with ISO/IEC

This Recommendation was not referenced from any Recommendation and some of its technical content was contained in ITU-T X.402 (1995)

Individually through the Electronic Bookshop:

X.408 (11/88) Message handling systems: Encoded information type conversion rules

Individually through the Electronic Bookshop: 22 CHF

X.410 (10/84) Withdrawn (11/88)
Message handling systems: remote operations and reliable transfer server
Withdrawn on 25.11.1988

Common text with ISO/IEC
202pp E 17395 F 17395 73 CHF

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

Common text with ISO/IEC
58pp E 17353 F 17353 29 CHF

X.420 (06/99) Information technology – Message Handling Systems (MHS): Interpersonal messaging system
Common text with ISO/IEC
220pp E 17404 F 17404 96 CHF

X.421 (06/99) Message Handling Systems: COMFAX use of MHS
20pp E 18352 F 18353 S 18354 12 CHF

X.435 (06/99) Information technology – Message handling services (MHS): Electronic Data Interchange messaging system
Common text with ISO/IEC
120pp E 16552 F 16553 S 16554 49 CHF

X.440 (06/99) Message handling systems: Voice messaging system
To be published...
X.445 (04/95)  Asynchronous protocol specification – Provision of OSI connection mode network service over the telephone network
40pp  E 6479  F 6480  S 6481  20 CHF

X.446 (08/97)  Common messaging call API
288pp  E 11948  F 11949  S 11950  96 CHF

X.460 (04/95)  Information technology – Message Handling Systems (MHS) Management: Model and architecture
Common text with ISO/IEC
20pp  E 6427  F 6856  S 6857  15 CHF

X.462 (10/96)  Information technology – Message Handling Systems (MHS) Management: Logging information
Common text with ISO/IEC
96pp  E 9640  F 9641  S 9642  39 CHF

X.467 (10/96)  Information technology – Message Handling Systems (MHS) Management: Message transfer agent management
Common text with ISO/IEC
120pp  E 9618  F 9619  S 9620  49 CHF

X.480 (09/92) **Withdrawn (03/00)**  Message handling systems and directory services – conformance testing

*Withdrawn as it references documents that have been deleted by the ITU*
10pp  E 3357  F 3356  S 3358  11 CHF

X.481 (06/99)  Message handling systems – P2 protocol PICS proforma
28pp  E 15651  F 15652  S 15653  17 CHF

X.482 (06/99)  Message handling systems – P1 protocol PICS proforma
32pp  E 15654  F 15655  S 15656  22 CHF

X.483 (06/99)  Message handling systems – P3 protocol PICS proforma
44pp  E 15685  F 15686  S 15687  22 CHF

X.484 (06/99)  Message handling systems – P7 protocol PICS proforma
76pp  E 15710  F 15711  S 15712  39 CHF

X.485 (09/92)  Message handling systems: Voice messaging system Protocol Implementation Conformance Statement (PICS) proforma
27pp  E 3468  F 3467  S 3469  15 CHF

X.486 (06/99)  Message handling systems – Pedi protocol PICS proforma
24pp  E 15636  F 15637  S 15638  17 CHF

X.487 (06/99)  Message handling systems – IPM-MS attributes PICS proforma
32pp  E 16277  F 16278  S 16279  17 CHF

X.488 (06/99)  Message handling systems – EDI-MS attributes PICS proforma
12pp  E 16280  F 16281  S 16282  17 CHF

Directory

X.500 (02/01)  Information technology – Open Systems Interconnection – The Directory: Overview of concepts, models and services
Common text with ISO/IEC
30pp  E 21260  F 21261  S 21262  17 CHF

X.501 (02/01)  Information technology – Open Systems Interconnection – The Directory: Models
Common text with ISO/IEC
240pp  E 21308  F 21309  S 21310  96 CHF

X.509 (03/00)  Information technology – Open Systems Interconnection – The Directory: Public-key and attribute certificate frameworks
146pp  E 19454  F 19455  S 19456  61 CHF

Directory

X.509 (2000) Technical Cor.1 (10/01)

X.509 Cor2 (02/01)
Common text with ISO/IEC

X.509 (2000) Technical Cor.2 (04/02)

X.509 (2000) Corrigendum 3 (04/04)

*This corrigendum cancels and replaces the text approved on 2003-02-13*
To be published...
Common text with ISO/IEC
28pp E 13465 F 13466 S 13467 17 CHF

OSI networking and system aspects

Networking

X.601 (03/00) Multi-peer communications framework
Common text with ISO/IEC
20pp E 18573 F 18574 S 18575 17 CHF

Networking

X.602 (04/04) Information technology – Group management protocol
To be published...

X.603 (04/04) Information technology – Relayed multicast protocol: Framework
To be published...

Networking

X.605 (09/98) Information technology – Enhanced Communications Transport Service Definition
Common text with ISO/IEC
52pp E 14474 F 14475 S 14476 29 CHF

Networking

X.606 (10/01) Information technology – Enhanced communications transport protocol: Specification of simplex multicast transport
36pp E 21385 F 21386 S 21387 17 CHF

X.606.1 (02/03) Information technology – Enhanced Communications Transport Protocol: Specification of QoS management for simplex multicast transport
46pp E 23614 F 23615 S 23616 22 CHF

Networking

X.610 (09/92) Provision and support of the OSI connection-mode Network service
26pp E 3504 F 3503 S 3505 15 CHF

X.612 (09/92) Information technology – Provision of the OSI connection-mode network service by packet-mode terminal equipment connected to an Integrated Services Digital Network (ISDN)
Common text with ISO/IEC
19pp E 3043 F 3091 S 3096 15 CHF

X.613 (09/92) Information technology – Use of X.25 Packet Layer Protocol in conjunction with X.21/X.21 bis to provide the OSI connection-mode Network service
Common text with ISO/IEC
11pp E 3082 F 3092 S 3101 11 CHF

X.614 (09/92) Information technology – Use of X.25 Packet Layer Protocol to provide the OSI connection-mode Network service over the telephone network
Common text with ISO/IEC
9pp E 3083 F 3093 S 3102 11 CHF

X.622 (07/94) Information technology – Protocol for providing the connectionless-mode network service: Provision of the underlying service by an X.25 Subnetwork
Common text with ISO/IEC
11pp E 5630 F 5950 S 5713 11 CHF

X.623 (07/94) Information technology – Protocol for providing the connectionless-mode Network service: Provision of the underlying service by a subnetwork that provides the OSI Data Link service
Common text with ISO/IEC
10pp E 5631 F 5715 S 5714 11 CHF

X.625 (10/96) Information technology – Protocol for providing the connectionless-mode Network service: Provision of the underlying service by ISDN circuit-switched B-channels
Common text with ISO/IEC
16pp E 9672 F 9673 S 9674 12 CHF

Efficiency

X.630 (09/98) Efficient Open Systems Interconnection (OSI) operations
Common text with ISO/IEC
32pp E 14427 F 14428 S 14429 17 CHF
\textbf{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

\textbf{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

Common text with ISO/IEC
28pp E 9885 F 9886 S 9887 17 CHF

\textbf{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

\textbf{X.637 (10/96)} Basic connection-oriented common upper layer requirements
24pp E 10358 F 10359 S 10360 17 CHF

\textbf{X.638 (10/96)} Minimal OSI facilities to support basic communications applications
56pp E 10517 F 10518 S 10519 29 CHF

\textbf{X.639 (10/96)} Basic connection-oriented requirements for ROSE-based profiles
16pp E 10179 F 10180 S 10181 12 CHF

\textbf{Quality of service}

\textbf{X.641 (12/97)} Information technology – Quality of service: Framework
Common text with ISO/IEC
52pp E 13037 F 13038 S 13039 29 CHF

\textbf{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

\textbf{Naming, Addressing and Registration}

\textbf{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

\textbf{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

12pp E 9725 F 9726 S 9727 12 CHF

\textbf{X.660 (1992) Amendment 2 (08/97)} Incorporation of the root arcs of the object identifier tree
12pp E 12747 F 12748 S 12749 12 CHF

\textbf{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

\textbf{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

\textbf{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

\textbf{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

\textbf{X.669 (1996) Corrigendum 1 (06/99)}
To be published...

\textbf{ITU-T 05/04 – Series X} 179
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 (2002) Amendment 1 (10/03) Support for EXTENDED-XER
To be published...

18pp E 23479 12 CHF

X.682 (07/02) Information technology – Abstract Syntax Notation One (ASN.1): Parameterization of ASN.1 specifications
42pp E 23493 22 CHF

X.683 (07/02) Information technology – Abstract Syntax Notation One (ASN.1): Parameterization of ASN.1 specifications
22pp E 23496 17 CHF

X.680-X.690 (07/02) Information technology – ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)
36pp E 23482 17 CHF

X.680-X.693 (07/02) Information technology – Abstract Syntax Notation One (ASN.1) & ASN.1 encoding rules
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X.680-X.693/X.691 (07/02) Information technology – Abstract Syntax Notation One (ASN.1): Information object specification
146pp E 23469 197 CHF

X.680-X.693/X.692 (03/02) Information technology – ASN.1 encoding rules: Specification of Encoding Control Notation (ECN)
An electronic version of Annex E of this Recommendation with an associated ECN Huffman encoding macro is also published independently and freely available from ITU website
196pp E 23490 F 23491 S 23492 73 CHF

X.680-X.693/X.692 (07/02) Information technology – Abstract Syntax Notation One (ASN.1): Information object specification
42pp E 23493 22 CHF

X.680-X.693/X.693 (07/02) Information technology – Abstract Syntax Notation One (ASN.1): Parameterization of ASN.1 specifications
22pp E 23496 17 CHF

X.680-X.693/X.693 (07/02) Information technology – Abstract Syntax Notation One (ASN.1): Information object specification
146pp E 23476 55 CHF

X.680-X.693/X.691 (12/01) Information technology – ASN.1 encoding rules: XML encoding rules
18pp E 21711 F 21712 S 21713 12 CHF

X.680-X.693 (07/02) Information technology – Abstract Syntax Notation One (ASN.1): Specification of basic notation
146pp E 22476 55 CHF

X.680-X.693/X.690 (07/02) Information technology – ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)
36pp E 23482 17 CHF

X.680-X.693/X.693 (10/02) Information technology – Abstract Syntax Notation One (ASN.1) & ASN.1 encoding rules
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X.680-X.693/X.691 (07/02) Information technology – Abstract Syntax Notation One (ASN.1): Parameterization of ASN.1 specifications
42pp E 23493 22 CHF

X.680-X.693/X.692 (07/02) Information technology – Abstract Syntax Notation One (ASN.1): Parameterization of ASN.1 specifications
22pp E 23496 17 CHF

X.690 (07/02) Information technology – ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)
36pp E 23482 17 CHF
X.690 (2002) Amendment 1 (10/03)  Support for EXTENDED-XER
To be published...

X.691 (2002) Amendment 1 (10/03)  Support for EXTENDED-XER
To be published...

X.691 (2002) Erratum 1 (06/03)

This electronic file reproduces Annex E of ITU-T Rec. X.692 (03/2002) and contains an ECN Huffman encoding macro in Visual Basic for Word 2000

X.693 (2001) Amendment 1 (10/03)  XER encoding instructions and EXTENDED-XER
To be published...

X.694 (01/04)  Information technology – ASN.1 encoding rules: Mapping W3C XML schema definitions into ASN.1
Common text with ISO/IEC
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

12pp  E 14172  F 14173  S 14174  12 CHF

Management Communication Service and Protocol

X.710 (10/97)  Information technology – Open Systems Interconnection – Common Management Information service
36pp  E 12481  F 12482  S 12483  22 CHF

X.711 (10/97)  Information technology – Open Systems Interconnection – Common management information protocol: Specification
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

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 and Cor.2 (10/96)  Technical Corrigenda 1 and 2
8pp
**Structure of Management Information**

<table>
<thead>
<tr>
<th>Document Reference</th>
<th>Title</th>
<th>Pages</th>
<th>Editions</th>
<th>CHF</th>
</tr>
</thead>
<tbody>
<tr>
<td>X.720 (01/92)</td>
<td>Information technology – Open Systems Interconnection – Structure of management information: Management information model</td>
<td>31pp</td>
<td>E 3158  F 3157  S 3159</td>
<td>15</td>
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<tr>
<td>X.720 (1992)</td>
<td>Amendment 1 (11/95) Generalization of terms</td>
<td>8pp</td>
<td>E 6694  F 6947  S 6948</td>
<td>8</td>
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<td>X.720 (1992)</td>
<td>Technical Cor. 1 (02/94)</td>
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<tr>
<td>X.721 (02/92)</td>
<td>Information technology – Open Systems Interconnection – Structure of management information: Definition of management information</td>
<td>63pp</td>
<td>E 2828  F 2793  S 2863</td>
<td>29</td>
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<tr>
<td>X.721 (1992)</td>
<td>Amendment 1 (08/01) States to support lifecycle</td>
<td>10pp</td>
<td>E 21288 F 21289 S 21290</td>
<td>9</td>
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<td>X.721 (1992)</td>
<td>Technical Cor. 2 (10/96)</td>
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<td>Technical Cor. 3 (06/98)</td>
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<td>Technical Cor. 4 (02/00)</td>
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<tr>
<td>X.722 (01/92)</td>
<td>Information technology – Open Systems Interconnection – Structure of Management Information: Guidelines for the definition of managed objects</td>
<td>50pp</td>
<td>E 3045  F 3086  S 3046</td>
<td>24</td>
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<tr>
<td>X.722 (1992)</td>
<td>Amendment 1 (11/95) Set by create and component registration</td>
<td>8pp</td>
<td>E 6695  F 6964  S 6965</td>
<td>8</td>
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<td>X.722 (1992)</td>
<td>Amendment 3 (08/97) Guidelines for the use of Z in formalizing the behaviour of managed objects</td>
<td>24pp</td>
<td>E 12534 F 12535 S 12536</td>
<td>17</td>
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<td>Information technology – Open Systems Interconnection – Structure of management information: Generic management information</td>
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<td>X.724 (10/96)</td>
<td>Information technology – Open Systems Interconnection – Structure of management information: Requirements and guidelines for implementation conformance statement proformas associated with OSI management</td>
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<td>Information technology – Open Systems Interconnection – Structure of management information: General Relationship Model</td>
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<td>Information technology – Open Systems Interconnection – Structure of management information: Systems management application layer managed objects</td>
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<td>Management functions and ODMA functions</td>
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<td>X.730 (01/92)</td>
<td>Information technology – Open Systems Interconnection – Systems Management: Object management function</td>
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<td>X.730 (1992)</td>
<td>Amendment 1 (04/95) Implementation Conformance Statement proformas</td>
<td>32pp</td>
<td>E 6423  F 6910  S 6911</td>
<td>15</td>
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<td>X.730 (1992) Am1</td>
<td>Technical Cor. 1 (10/96)</td>
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</tbody>
</table>
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 (1992) Amendment 1 (04/95) Implementation Conformance Statement proformas
24pp E 6422 F 6912 S 6913 15 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 (1992) Amendment 1 (04/95) Implementation Conformance Statement proformas
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 (1992) Amendment 1 (04/95) Implementation Conformance Statement proformas
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 (1992) Amendment 1 (04/95) Implementation Conformance Statement proformas
28pp E 6292 F 6738 S 6525 15 CHF

X.734 (1992) Amendment 1 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 (1992) Amendment 1 (04/95) Implementation Conformance Statement proformas
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 (1992) Amendment 1 (04/95) Implementation Conformance Statement proformas
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
59pp  E 5704  F 6296  S 6183  30 CHF

X.738 (1993) Amendment 1 (10/96)  Implementation conformance statement pro formas
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 (1993) Amendment 1 (08/97)  Implementation conformance statement pro formas
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. 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 (1995) Amendment 1 (10/97)  Implementation conformance statement pro formas
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)

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.744.1 (03/03)  CORBA-based TMN software management service
77pp  E 24219  F 24220  S 24221  34 CHF

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.790 (1995) Corrigendum 1 (03/99)

X.790 (1995) 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
20pp E 15931 F 15932 S 15933 17 CHF

X.792 (1999) Corrigendum 1 (08/01)

Security

X.800 (03/91) Security architecture for Open Systems Interconnection for CCITT applications
46pp E 2110 F 2109 S 2111 17 CHF

8pp E 10483 F 10484 S 10485 9 CHF

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Common text with ISO/IEC
24pp E 6122 F 6460 S 6696 15 CHF

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Common text with ISO/IEC
28pp E 5716 F 6486 S 6698 15 CHF

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28pp E 24745 F 24746 S 24747 17 CHF

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Common text with ISO/IEC
28pp E 6700 F 7134 S 7135 15 CHF

Common text with ISO/IEC
52pp E 6430 F 7050 S 7051 25 CHF

44pp E 6748 F 7513 S 7514 22 CHF

Common text with ISO/IEC
28pp E 9742 F 9743 S 9744 17 CHF

Common text with ISO/IEC
24pp E 6749 F 7470 S 7471 17 CHF

Common text with ISO/IEC
24pp E 6744 F 7372 S 7373 17 CHF

Common text with ISO/IEC
24pp E 6697 F 7349 S 7350 15 CHF

X.830 (04/95) Information technology – Open Systems Interconnection – Generic upper layers security: Overview, models and notation
Common text with ISO/IEC
60pp E 6431 F 7052 S 7053 25 CHF

X.831 (04/95) Information technology – Open Systems Interconnection – Generic upper layers security: Security Exchange Service Element (SESE) service definition
Common text with ISO/IEC
8pp E 6426 F 6966 S 6967 11 CHF
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<tr>
<td>X.832 (04/95)</td>
<td>Information technology – Open Systems Interconnection – Generic upper layers security: Security Exchange Service Element (SESE) protocol specification</td>
<td>05/04</td>
<td>20pp</td>
<td>E 6429</td>
<td>F 6968</td>
<td>S 6969</td>
<td>15 CHF</td>
</tr>
<tr>
<td>X.833 (04/95)</td>
<td>Information technology – Open Systems Interconnection – Generic upper layers security: Protecting transfer syntax specification</td>
<td>05/04</td>
<td>12pp</td>
<td>E 6428</td>
<td>F 6970</td>
<td>S 6971</td>
<td>11 CHF</td>
</tr>
<tr>
<td>X.841 (10/00)</td>
<td>Information technology – Security techniques – Security information objects for access control</td>
<td>05/04</td>
<td>28pp</td>
<td>E 19740</td>
<td>F 19741</td>
<td>S 19742</td>
<td>17 CHF</td>
</tr>
<tr>
<td>X.842 (10/00)</td>
<td>Information technology – Security techniques – Guidelines for the use and management of trusted third party services</td>
<td>05/04</td>
<td>44pp</td>
<td>E 19798</td>
<td>F 19799</td>
<td>S 19800</td>
<td>22 CHF</td>
</tr>
<tr>
<td>X.843 (10/00)</td>
<td>Information technology – Security techniques – Specification of TTP services to support the application of digital signatures</td>
<td>05/04</td>
<td>62pp</td>
<td>E 19795</td>
<td>F 19796</td>
<td>S 19797</td>
<td>29 CHF</td>
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**Transaction processing**

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<tr>
<td>X.860 (12/97)</td>
<td>Open Systems Interconnection – Distributed Transaction Processing: Model</td>
<td>05/04</td>
<td>44pp</td>
<td>E 13040</td>
<td>F 13041</td>
<td>S 13042</td>
<td>22 CHF</td>
</tr>
<tr>
<td>X.861 (12/97)</td>
<td>Open Systems Interconnection – Distributed Transaction Processing: Service definition</td>
<td>05/04</td>
<td>144pp</td>
<td>E 13085</td>
<td>F 13086</td>
<td>S 13087</td>
<td>55 CHF</td>
</tr>
<tr>
<td>X.862 (12/97)</td>
<td>Open Systems Interconnection – Distributed Transaction Processing: Protocol specification</td>
<td>05/04</td>
<td>728pp</td>
<td>E 14224</td>
<td>F 14225</td>
<td>S 14226</td>
<td>248 CHF</td>
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**Remote operations**

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<tr>
<td>X.880 (07/94)</td>
<td>Information technology – Remote Operations: Concepts, model and notation</td>
<td>05/04</td>
<td>37pp</td>
<td>E 5632</td>
<td>F 5959</td>
<td>S 5960</td>
<td>20 CHF</td>
</tr>
<tr>
<td>X.880 (1994) Amendment 1 (11/95)</td>
<td>Built-in operations</td>
<td>05/04</td>
<td>12pp</td>
<td>E 6703</td>
<td>F 6972</td>
<td>S 6973</td>
<td>11 CHF</td>
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**OSI applications**

**Commitment, Concurrency and Recovery**

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<td>X.851 (12/97)</td>
<td>Information technology – Open Systems Interconnection – Service definition for the Commitment, Concurrency and Recovery service element</td>
<td>05/04</td>
<td>68pp</td>
<td>E 12920</td>
<td>F 12921</td>
<td>S 12922</td>
<td>29 CHF</td>
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</table>
Open Systems Interconnection

X.960 Erratum 1 (10/02)

X.1081 (04/04) The telebiometric multimodal model – A framework for the specification of security and safety aspects of telebiometrics
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To be published...

Overall network aspects and functions

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19pp E 20061 F 20062 S 20063 17 CHF

Internet protocol aspects

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Y.1261 (2002) Erratum 1 (02/04)

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40pp E 24699 F 24700 S 24701 22 CHF

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16pp E 19928 F 19929 S 19930 12 CHF

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Y.1305/G.7042 (2001) Corrigendum 2 (03/03)

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46pp E 20817  F 20818  S 20819  29 CHF

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To be published...

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

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10pp E 24845  F 24846  S 24847  9 CHF

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Interworking
Global information infrastructure

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To be published...

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36pp  E 23410 F 23411 S 23412 17 CHF

Internet protocol aspects

Quality of service and network performance

Y.1540 (2002) Amendment 1 (08/03) New Appendix VIII: Background on IP service availability
9pp  E 24647 F 24648 S 24649 9 CHF

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34pp  E 22763 F 22764 S 22765 17 CHF

Y.1541 (2002) Amendment 1 (08/03) Revised Appendix VI: Applicability of the Y.1221 transfer capabilities and IETF differentiated services to IP QoS classes
7pp  E 24650 F 24651 S 24652 9 CHF

10pp  E 25272 F 25273 S 25274 9 CHF

Y.1541 Appendix X (11/02) Speech quality calculations for Y.1541 hypothetical reference paths
10pp  E 23111 F 23112 S 23113 9 CHF

Y.1560 (09/03) Parameters for TCP connection performance in the presence of middleboxes
18pp  E 24892 F 24893 S 24894 12 CHF

Operation, administration and maintenance

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88pp  E 22596 F 22597 S 22598 39 CHF

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76pp  E 24574 F 24575 S 24576 34 CHF

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74pp  E 22912 F 22913 S 22914 34 CHF

Y.1704.1/G.7713.1 (03/03) Distributed call and connection management (DCM) based on PNNI
50pp  E 24323 F 24324 S 24325 29 CHF

Y.1704.2/G.7713.2 (03/03) Distributed Call and Connection Management: Signalling mechanism using GMPLS RSVP-TE
45pp  E 24418 F 24419 S 24420 22 CHF

Y.1704.3/G.7713.3 (03/03) Distributed Call and Connection Management: Signalling mechanism using GMPLS CR-LDP
43pp  E 24383 F 24384 S 24385 22 CHF

Y.1705/G.7714 (11/01) Generalized automatic discovery techniques
22pp  E 21414 F 21415 S 21416 17 CHF
Operation, administration and maintenance

Y.1705.1/G.7714.1 (04/03)  Protocol for automatic discovery in SDH and OTN networks
30pp  E 24421  F 24422  S 24423  17 CHF

Y.1705.1 (04/03)  Protocol for automatic discovery in SDH and OTN networks
To be published...

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36pp  E 22748  F 22749  S 22750  17 CHF

Operation, administration and maintenance

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25pp  E 25228  17 CHF

Quality of service and network performance

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12pp  E 23051  F 23052  S 23053  9 CHF

Operation, administration and maintenance

Y.1711 (02/04)  Operation & Maintenance mechanism for MPLS networks
36pp  E 25490  17 CHF

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To be published...

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34pp  E 24544  F 24545  S 24546  17 CHF

Y.1720 (09/2003) Erratum 1 (04/04)
Applies only to English version

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25pp  E 25327  17 CHF

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Languages and general software aspects for telecommunication systems

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Z.100 (08/02)  Specification and Description Language (SDL)
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To be published...

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To be published...

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218pp  E 21224  96 CHF

Z.100 Annex F3 (11/00)  SDL formal definition: Dynamic Semantics
125pp  E 21017  49 CHF

Z.100 (2002) Corrigendum 1 (10/03)
To be published...

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88pp  E 12677  F 12678  S 12679  39 CHF
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37pp E 24454 F 24455 S 24456 22 CHF

Z.106 (08/02) Common interchange format for SDL
74pp E 23374 F 23375 S 23376 34 CHF

Z.107 (11/99) SDL with embedded ASN.1
8pp E 16920 F 16921 S 16922 9 CHF

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40pp E 17740 F 17741 S 17742 22 CHF

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Z.120 (11/99) Message sequence chart (MSC)
136pp E 20087 F 20088 S 20089 55 CHF

Z.120 Annex B (04/98) Formal semantics of message sequence charts
84pp E 22267 34 CHF

Z.120 Annex C (10/96) Withdrawn (06/02) Static semantics of message sequence charts

Z.120/Annex C was withdrawn on 2002-06-12 since its content is covered by Z.120/Annex B (1998)

Z.120 (1999) Corrigendum 1 (12/01)

Z.121 (02/03) Specification and Description Language (SDL) data binding to Message Sequence Charts (MSC)
18pp E 23748 F 23749 S 23750 12 CHF

Extended Object Definition Language (eODL)

Z.130 (07/03) Extended Object Definition Language (eODL): Techniques for distributed software component development – Conceptual foundation, notations and technology mappings
112pp E 25541 44 CHF

Tree and Tabular Combined Notation (TTCN)

Z.140 (04/03) Testing and Test Control Notation version 3 (TTCN-3): Core language
200pp E 24248 73 CHF

Message Sequence Chart

Z.141 (02/03) Testing and Test Control Notation version 3 (TTCN-3): Tabular presentation format
36pp E 23794 17 CHF

Tree and Tabular Combined Notation (TTCN)

Z.142 (02/03) Testing and Test Control Notation version 3 (TTCN-3): Graphical presentation format
146pp E 23857 55 CHF

User Requirements Notation (URN)

Z.150 (02/03) User Requirements Notation (URN) – Language requirements and framework
36pp E 24095 F 24096 S 24097 17 CHF

Programming languages

CHILL: The ITU-T high level language

Z.200 (11/99) CHILL – The ITU-T Programming Language
232pp E 19317 F 19318 S 19319 96 CHF

Man-machine language

General principles

Z.301 (11/88) Introduction to the CCITT man-machine language
Individually through the Electronic Bookshop: 20 CHF

Z.302 (11/88) The meta-language for describing mmL syntax and dialogue procedures
Individually through the Electronic Bookshop: 20 CHF

Basic syntax and dialogue procedures

Z.311 (11/88) Introduction to syntax and dialogue procedures
Individually through the Electronic Bookshop: 20 CHF
Z.312 (11/88) Basic format layout
*Individually through the Electronic Bookshop:* 20 CHF

Z.314 (11/88) The character set and basic elements
*Individually through the Electronic Bookshop:* 20 CHF

Z.315 (11/88) Input (command) language syntax specification
*Individually through the Electronic Bookshop:* 20 CHF

Z.316 (11/88) Output language syntax specification
*Individually through the Electronic Bookshop:* 20 CHF

Z.317 (11/88) Man-machine dialogue procedures
*Individually through the Electronic Bookshop:* 20 CHF

Extended mmL for visual display terminals

Z.321 (11/88) Introduction to the extended mmL for visual display terminals
*Individually through the Electronic Bookshop:* 20 CHF

Z.322 (11/88) Capabilities of visual display terminals
*Individually through the Electronic Bookshop:* 20 CHF

Z.323 (11/88) Man-machine interaction
*This Recommendation is also included but not published in E series under alias number E.333.*
*Individually through the Electronic Bookshop:* 22 CHF

Specification of the man-machine interface

Z.331 (11/88) Introduction to the specification of the man-machine interface
*Individually through the Electronic Bookshop:* 20 CHF

Z.332 (11/88) Methodology for the specification of the man-machine interface – General working procedure
*Individually through the Electronic Bookshop:* 20 CHF

Z.333 (11/88) Methodology for the specification of the man-machine interface – Tools and methods
*Individually through the Electronic Bookshop:* 20 CHF

Z.334 (11/88) Subscriber administration
*Individually through the Electronic Bookshop:* 20 CHF

Z.335 (11/88) Routing administration
*Individually through the Electronic Bookshop:* 20 CHF

Z.336 (11/88) Traffic measurement administration
*Individually through the Electronic Bookshop:* 22 CHF

Z.337 (11/88) Network management administration
*Individually through the Electronic Bookshop:* 20 CHF

Z.341 (11/88) Glossary of terms
*Individually through the Electronic Bookshop:* 22 CHF

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6pp  E 3999  F 3998  S 4000  8 CHF

Z.352 (03/93) Data oriented human-machine interface specification technique – Scope, approach and reference model
22pp  E 4272  F 4271  S 4273  15 CHF

Z.360 (05/97) Graphic GDMA: A graphic notation for the Guidelines for the Definition of Managed Objects
28pp  E 12254  F 12255  S 12256  17 CHF

Z.361 (02/99) Design guidelines for Human-Computer Interfaces (HCI) for the management of telecommunications networks
24pp  E 15745  F 15746  S 15747  17 CHF

Quality of telecommunication software

Z.400 (03/93) Structure and format of quality manuals for telecommunications software
6pp  E 4047  F 4046  S 4048  8 CHF

Quality

Quality aspects of protocol-related Recommendations

Z.450 (10/03) Quality aspects of protocol-related Recommendations
19pp  E 24917  F 24918  S 24919  12 CHF

Methods for validation and testing

Z.500 (05/97) Framework on formal methods in conformance testing
48pp  E 12622  F 12623  S 12624  22 CHF

Z.600 (11/00) Distributed processing environment architecture
48pp  E 21175  F 21176  S 21177  22 CHF
Mapping of ISO/IEC Standards to ITU-T Recommendations and ITU-T Recommendations to ISO/IEC Standards

The following table gives the ITU-T Recommendation numbers corresponding to the ISO/IEC International Standards ordered ISO numbers.

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.

### ISO/IEC Standards to ITU-T Recommendations

<table>
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<th>ISO/IEC</th>
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</table>

**ITU-T 05/04 195**
| ISO/IEC 10026-4 | X.863 |
| ISO/IEC 10035-1 | X.237 |
| ISO/IEC 10035-2 | X.257 |
| ISO/IEC 10040 | X.701 |
| ISO/IEC 10164-1 | X.730 |
| ISO/IEC 10164-2 | X.731 |
| ISO/IEC 10164-3 | X.732 |
| ISO/IEC 10164-4 | X.733 |
| ISO/IEC 10164-5 | X.734 |
| ISO/IEC 10164-6 | X.735 |
| ISO/IEC 10164-7 | X.736 |
| ISO/IEC 10164-8 | X.740 |
| ISO/IEC 10164-9 | X.741 |
| ISO/IEC 10164-10 | X.742 |
| ISO/IEC 10164-11 | X.739 |
| ISO/IEC 10164-12 | X.745 |
| ISO/IEC 10164-13 | X.738 |
| ISO/IEC 10164-14 | X.737 |
| ISO/IEC 10164-15 | X.746 |
| ISO/IEC 10164-16 | X.750 |
| ISO/IEC 10164-17 | X.751 |
| ISO/IEC 10164-18 | X.744 |
| ISO/IEC 10164-19 | X.749 |
| ISO/IEC 10164-20 | X.743 |
| ISO/IEC 10164-21 | X.753 |
| ISO/IEC 10164-22 | X.748 |
| ISO/IEC 10165-1 | X.720 |
| ISO/IEC 10165-2 | X.721 |
| ISO/IEC 10165-3 | 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.726 |
| ISO/IEC 10165-8 | X.287 |
| ISO/IEC 10165-9 | X.727 |
| ISO/IEC 10181-1 | X.810 |
| ISO/IEC 10181-2 | X.811 |
| ISO/IEC 10181-3 | X.812 |
| ISO/IEC 10181-4 | X.813 |
| ISO/IEC 10181-5 | X.814 |
| ISO/IEC 10181-6 | X.815 |
| ISO/IEC 10181-7 | X.816 |
| ISO/IEC 10588 | X.613 |
| ISO/IEC ISP 10610-1 | T.502 |
| ISO/IEC 10611-3 | X.482 |
| ISO/IEC 10611-4 | X.483 |
| ISO/IEC 10611-5 | X.484 |
| ISO/IEC 10731 | X.210 |
| ISO/IEC 10732 | X.614 |
| ISO/IEC 10733 | X.283 |
| ISO/IEC 10736 | X.274 |
| 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

<table>
<thead>
<tr>
<th>ITU-T Rec</th>
<th>ISO/IEC Rec</th>
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<td>Insertion of test signals in the field-blanking interval of monochrome and colour television signals</td>
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<td>Modulation of signals carried by sound-programme circuits by interfering signals from power supply sources</td>
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<td>J.11</td>
<td>25/11/88</td>
<td>Hypothetical reference circuits for sound-programme transmissions</td>
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<td>CMTT 503</td>
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<td>25/11/88</td>
<td>Performance characteristics of 7 kHz type (narrow bandwidth) sound-programme circuits</td>
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<td>CMTT 505</td>
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<td>22/08/94</td>
<td>Performance characteristics of 15 kHz-type sound-programme circuits – Circuits for high quality monophonic and stereophonic transmissions</td>
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<td>J.61</td>
<td>01/06/90</td>
<td>Transmission performance of television circuits designed for use in international connections</td>
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<td>CMTT 568</td>
<td>J.62</td>
<td>26/02/78</td>
<td>Single value of the signal-to-noise ratio for all television systems</td>
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<td>J.64</td>
<td>26/02/86</td>
<td>Definitions of parameters for simplified automatic measurement of television insertion test signals</td>
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<td>J.65</td>
<td>26/02/78</td>
<td>Standard test signal for conventional loading of a television channel</td>
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<td>J.19</td>
<td>25/11/88</td>
<td>A conventional test signal simulating sound-programme signals for measuring interference in other channels</td>
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<td>CMTT 572</td>
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<td>26/02/78</td>
<td>Transmission of one sound programme associated with analogue television signal by means of time division multiplex in the line synchronizing pulse</td>
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<td>J.85</td>
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<td>Digital television transmission over long distances – General principles</td>
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<td>23/05/86</td>
<td>Estimation of transmission performance of sound-programme circuits shorter or longer than the hypothetical reference circuit</td>
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<td>Sampling frequency to be used for the digital transmission of high-quality sound-programme signals</td>
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<td>General principles and user requirements for the digital transmission of high quality sound programmes</td>
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<td>J.54</td>
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<td>Transmission of analogue high-quality sound-programme signals on mixed analogue-and-digital circuits using 384 kbit/s channels</td>
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<td>Tolerances for transmission time differences between the vision and sound components of a television signal</td>
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<td>Transmission of high-quality sound-programme analogue signals over mixed analogue/digital circuits at 320 kbit/s</td>
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<td>J.101</td>
<td>01/06/90</td>
<td>Measurement methods and test procedures for teletext signals</td>
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<tr>
<td>CMTT 721</td>
<td>J.80</td>
<td>08/09/93</td>
<td>Transmission of component-coded digital television signals for contribution-quality applications at bit rates near 140 Mbit/s</td>
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<td>J.81</td>
<td>08/09/93</td>
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<td>J.67</td>
<td>22/08/94</td>
<td>Test signals and measurement techniques for transmission circuits carrying MAC/packet signals or HD-MAC signals</td>
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ITU-T HANDBOOKS

Operation

Instructions for the International Telephone Service (1993)

These instructions correspond to Recommendation ITU-T E.141

Article:  E 3382  F 3381  S 3383
         A 5961  C 7387  R 5130  23 CHF

Network Planning


Article:  E 1277  F 1278  S 1279  140 CHF


Article:  E 3214  F 3213  S 3215  28 CHF

Quality of Service

Handbook on Quality of Service and Network Performance (1993)

Article:  E 2977  F 2976  S 2978  37 CHF

Implementation Guidelines

Guidelines for Preparing and Conducting Field Trials of Digital Switching Equipments (1987)

Article:  E 1116  F 1117  S 1118  20 CHF

ISDN Field Trial Guidelines (1991)

Article:  E 2067  F 2066  S 2068  38 CHF

Guidelines for Implementing a Signalling System No. 7 Network (1991)

Article:  E 1910  F 1909  S 1911  37 CHF


Article:  E 3343  58 CHF

Outside Plant

Protection of telecommunication buildings from fire (2002)

Article:  E 19255  F 19256  S 19257  28 CHF
            R 23320

Marinized Terrestrial Cables (2002)

Article:  E 20502  F 20503  S 20504  34 CHF
            R 22956

Outside Plant Technologies for Public Networks (1992)

Article:  E 2075  F 2074  S 2076  122 CHF


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


Article:  E 3775  F 3776  S 3777
            R 9590  A 5962  53 CHF


Article:  E 14517  F 14695  S 14696
            A 19211  20 CHF
Protection against Electromagnetic Effects

Earthing and Bonding (2003)
Article:  E 24087  F 24088  S 24089  34 CHF

Earthing of Telecommunication Installations (1976)
Article:  E 497  F 498  S 499  41 CHF

Article:  E 20954  F 20955  S 20956  17 CHF

The Protection of Telecommunication Lines and Equipment Against Lightning Discharges – Chapters 1 to 5 (1974)
Article:  E 689  F 690  S 691  85 CHF
Chapters 6, 7 and 8 (1978)
Article:  E 693  F 694  S 695  42 CHF
Chapters 9 and 10 (1994)
Article:  E 5479  F 5478  S 5480  62 CHF

Directives

Directives Concerning the Protection of Telecommunication Lines against Harmful Effects from Electric Power and Electrified Railway Lines.

Volume I:  Design, construction and operational principles of telecommunication, power and electrified railway facilities (1989)
Article:  E 1773  F 1764  S 1782  36 CHF

Volume II:  Calculating induced voltages and currents in practical cases (1999)
Article:  E 15034  F 15065  S 15068  160 CHF

Article:  E 1775  F 1766  S 1784  56 CHF

Volume IV:  Inducing currents and voltages in electrified railway systems (1989)
Article:  E 1776  F 1767  S 1785  62 CHF

Volume V:  Inducing currents and voltages in power transmission and distribution systems (1999)
Article:  E 15071  F 15072  S 15073  24 CHF

Volume VI:  Danger and disturbance (1989)
Article:  E 1778  F 1769  S 1787  21 CHF

Article:  E 1779  F 1770  S 1788  21 CHF

Article:  E 1780  F 1771  S 1789  9 CHF

Article:  E 1781  F 1772  S 1790  84 CHF

Measurement Methods

Handbook on interference measuring techniques (2002)
Article:  E 20506  F 20505  S 20507  38 CHF

Handbook on Telephonometry (1993)
Article:  E 3771  F 3770  S 3772  86 CHF

Additions to the Handbook on Telephonometry (1999)
Article:  E 14626  F 14627  S 14628  12 CHF

Addition to section 2.3 of the Handbook on Telephonometry (2000)
Forthcoming

Addition to section 3 of the Handbook on Telephonometry (2000)
Article:  E 20261  F 20262  S 20263  12 CHF

Compendium of Cable Measurement Methods (1984)
Article:  E 458  F 471  S 474  40 CHF

Formal Languages

Introduction to CHILL (1993)
Only available in English
Article:  E 3739  23 CHF

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

Only available in English
Article:  E 1053  43 CHF
The following is a list of the different software, test sequences and data published by ITU-T, and intended to test different communication equipment. Each software forms generally an integral part of a Recommendation and is published as an enclosure to it. Details about price and article number can be found in the Recommendation list. Some of these are not included in *ITU-T Recommendations on DVD-ROM*. For more information, please contact ITU Sales Services at sales@itu.int

### Series Subject

**G.191 (11/00)**
This Recommendation includes 1 CD-ROM containing the software tools library (STL-2000). The STL-2000 Manual is freely available from this Website for information purposes.

**G.722 Appendix II (11/88)**
This document corresponds to ITU-T Rec. G.722 Appendix II which was published in the Blue Book (1988). It includes one diskette containing the digital test sequences for the verification of the G.722 SB-ADPCM codec.

**G.722.1 (09/99)**
This Recommendation includes an electronic attachment containing the reference code (release 1.2) and the test vectors for ITU-T G.722.1 algorithm implementation verification. This release includes the corrections indicated in corrigendum 1 (11/2000).

**G.722.1 Annex B (11/00)**
This annex includes an electronic attachment containing the reference code and the test vectors for ITU-T G.722.1/Annex B floating-point algorithm implementation verification.

**G.722.1 Annex C (03/04)**

**G.722.1 Annex D (07/03)**

**G.723.1 Annex A (11/96)**
This Annex includes 3 diskettes which are common to Recommendation main body and to this annex and which contain test vectors and C reference code for implementation verification of the G.723.1 fixed point dual rate speech coder for multimedia communications.

**G.723.1 Annex B (11/96)**
This Annex includes one CD-ROM containing the reference code and the test vectors for implementation verification of the G.723.1 floating point speech coder. The CD-ROM may be replaced on demand by 14 diskettes.

**G.723.1 Annex C (11/96)**
This Annex includes one diskette containing the reference code and the test vectors for implementation verification of the scalable channel coding scheme.

**G.726 Appendix II test vectors (03/91)**
This document corresponds to G.726 Appendix II. It includes 2 diskettes containing respectively the A-Law and µ-Law digital test sequences for the verification of the G.726 ADPCM codec implementations. The document reproduces the user guide published in the CCITT collective letter No. 11/XV (1991).
<table>
<thead>
<tr>
<th>Series</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>G.727 Appendix I</td>
<td>This document corresponds to G.727 Appendix I. It includes 6 diskettes</td>
</tr>
<tr>
<td></td>
<td>containing digital test sequences for the verification of the G.727</td>
</tr>
<tr>
<td></td>
<td>embedded ADPCM codec implementations. The document reproduces</td>
</tr>
<tr>
<td></td>
<td>the user guide published in the CCITT collective letter No. 12/XV (1991)</td>
</tr>
<tr>
<td>G.728 Annex H (05/99)</td>
<td>This Annex includes 1 CD-ROM containing the test data for verification</td>
</tr>
<tr>
<td></td>
<td>of G.728 Annex H low bit rate LD-CELP implementations</td>
</tr>
<tr>
<td>G.728 Annex J (09/99)</td>
<td>This Annex includes 1 CD-ROM containing the test vectors for</td>
</tr>
<tr>
<td></td>
<td>verification of G.728 Annex J variable bit-rate LD-CELP implementations</td>
</tr>
<tr>
<td>G.728 Appendix I</td>
<td>This document corresponds to G.728 Appendix I. It includes 4 diskettes</td>
</tr>
<tr>
<td>Software (07/95)</td>
<td>containing programs and test sequences for verification of the floating</td>
</tr>
<tr>
<td></td>
<td>point and fixed point implementations of the G.728 LD-CELP algorithm.</td>
</tr>
<tr>
<td></td>
<td>The document reproduces the user guide published in the CCITT collective</td>
</tr>
<tr>
<td></td>
<td>letter No. 17/XV (1992)</td>
</tr>
<tr>
<td>G.729 (03/96)</td>
<td>This Recommendation includes 3 diskettes containing source code and</td>
</tr>
<tr>
<td></td>
<td>test sequences for implementation verification of the algorithm of the</td>
</tr>
<tr>
<td></td>
<td>G.729 8 kbit/s CS-ACELP speech coder</td>
</tr>
<tr>
<td>G.729 Annex A (11/96)</td>
<td>This Annex includes 3 diskettes containing source code and test</td>
</tr>
<tr>
<td></td>
<td>sequences for implementation verification of the algorithm of the G.729</td>
</tr>
<tr>
<td></td>
<td>reduced complexity 8 kbit/s CS-ACELP speech coder</td>
</tr>
<tr>
<td>G.729 Annex B (02/00)</td>
<td>This Annex includes 1 electronic attachment containing source code and</td>
</tr>
<tr>
<td></td>
<td>test sequences for implementation verification of the algorithm of the G.</td>
</tr>
<tr>
<td></td>
<td>729 Silence compression scheme version 1.4, which reflects modifications</td>
</tr>
<tr>
<td></td>
<td>given in Corrigendum 2 (02/2000)</td>
</tr>
<tr>
<td>G.729 Annex B (1996)</td>
<td>This Corrigendum concerns only the software; the resulting version 1.4</td>
</tr>
<tr>
<td>Corrigendum 2 (02/00)</td>
<td>is included in the published ITU-T Recommendation G.729 Annex B (10/1996)</td>
</tr>
<tr>
<td>G.729 Annex C (09/98)</td>
<td>This Annex includes 1 diskette containing version 1.01 of reference C</td>
</tr>
<tr>
<td></td>
<td>code for floating point implementation of the G.729 8 kbit/s CS-ACELP</td>
</tr>
<tr>
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<td>speech coder</td>
</tr>
<tr>
<td>G.729 Annex C+ (02/00)</td>
<td>This annex includes an electronic attachment containing version 2.1 of</td>
</tr>
<tr>
<td></td>
<td>reference C code for floating point implementation of CS-ACELP at</td>
</tr>
<tr>
<td></td>
<td>6.4/8/11.8 kbit/s with DTX functionality</td>
</tr>
<tr>
<td>G.729 Annex D (02/00)</td>
<td>This Annex includes one electronic attachment containing version 1.3 of</td>
</tr>
<tr>
<td></td>
<td>source C code for fixed point implementation of the G.729 6.4 kbit/s</td>
</tr>
<tr>
<td></td>
<td>CS-ACELP speech coder, which reflects modifications given in Corrigendum</td>
</tr>
<tr>
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<td>1 (02/2000)</td>
</tr>
</tbody>
</table>

**Corrigendum 1 (02/00)**
This corrigendum concerns only the software; the resulting version 1.3 is included in the published ITU-T Recommendation G.729 Annex D (09/1998).

---

**G.729 Annex E (09/98)**

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

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**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).

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**Corrigendum 1 (02/00)**
This corrigendum concerns only the software; the resulting version 1.3 is included in the published ITU-T Recommendation G.729 Annex E (09/1998).

---

**G.729 Annex F (02/00)**

This annex includes an electronic attachment containing version 1.1 of reference C code and test vectors for fixed point implementation of CS-ACELP at 6.4 kbit/s 8 kbit/s with DTX functionality.

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**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.

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**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.

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**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.

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**G.763 (10/98)**

This Recommendation includes 2 diskettes. The first one contains A-Law and µ-Law test vectors for DCME verification. The second one contains example transmit/receive SDLs. Covering note, May 2000: Erratum.

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**G.763 Appendix I (10/98)**

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

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**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.
<table>
<thead>
<tr>
<th><strong>Series</strong></th>
<th><strong>Subject</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>G.967.2 (02/99)</td>
<td>This Recommendation includes one diskette containing the SDL process diagrams corresponding to the VB5.2 reference point</td>
</tr>
<tr>
<td>H.341 (05/99)</td>
<td>This Recommendation includes one diskette containing the formal descriptions of Annexes A, B, C, D and E for the multimedia management information base</td>
</tr>
<tr>
<td>H Supplement 1 (05/99)</td>
<td>This supplement includes one CD-ROM containing the video clip &quot;Irene&quot; to be used as test material for video coding of sign language</td>
</tr>
<tr>
<td>J.120 (05/00)</td>
<td></td>
</tr>
<tr>
<td>J.170 (02/02)</td>
<td></td>
</tr>
<tr>
<td>M.3120 (10/01)</td>
<td></td>
</tr>
<tr>
<td>P.50 Appendix I (02/98)</td>
<td>This Appendix includes one CD-ROM containing the speech database for telephonometry applications. Not available through Electronic Bookshop. To purchase, please contact <a href="mailto:Sales@itu.int">Sales@itu.int</a></td>
</tr>
<tr>
<td>P.501 (05/00)</td>
<td>This Recommendation includes one CD-ROM containing test signals for telephonometry applications</td>
</tr>
<tr>
<td>P.834 (07/02)</td>
<td></td>
</tr>
<tr>
<td>P.861 (02/98)</td>
<td>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</td>
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<tr>
<td>Withdrawn (07/01)</td>
<td></td>
</tr>
<tr>
<td>P.862 (02/01)</td>
<td></td>
</tr>
<tr>
<td>P.862 Amendment 1 (2001)</td>
<td></td>
</tr>
<tr>
<td>P Supplement 23 (02/98)</td>
<td>This supplement includes 3 CD-ROMs containing the ITU-T coded speech database for 8 kbit/s codec tests Not available through Electronic Bookshop. To purchase, please contact <a href="mailto:Sales@itu.int">Sales@itu.int</a></td>
</tr>
<tr>
<td>Q.765.1bis (12/99)</td>
<td>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</td>
</tr>
<tr>
<td>Q.784.2 (06/97)</td>
<td>This Recommendation includes one diskette containing Annex D ISUP'92 ATS for Basic Call in graphical and in machine processable form</td>
</tr>
<tr>
<td>Q.784.3 (12/99)</td>
<td>This Recommendation includes an electronic attachment containing the ATS for ISUP'97 basic call control procedures in machine processable form and in pdf form</td>
</tr>
<tr>
<td>Q.785.2 (03/99)</td>
<td>This Recommendation includes one CD-ROM containing the ISUP'97 ATS for Supplementary Services in machine processable form and in graphical form</td>
</tr>
<tr>
<td>Q.785.2 Amendment 1 (12/00)</td>
<td></td>
</tr>
<tr>
<td>Q.785.2 Erratum 1 (2002)</td>
<td></td>
</tr>
<tr>
<td>Q.921bis (03/93)</td>
<td>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</td>
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<table>
<thead>
<tr>
<th>Series</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q.933bis (10/95)</td>
<td>This Recommendation includes one diskette containing Abstract test suites Section II corresponding to additional procedures for PVCs as per ITU-T Rec. Q.933 Annex A</td>
</tr>
<tr>
<td>Q.953.5 (12/99)</td>
<td>This Recommendation includes one diskette containing the SDL process diagrams of DSS1 CCNR in machine processable form</td>
</tr>
<tr>
<td>Q.1228 (09/97)</td>
<td>This Recommendation includes 3 diskettes containing ITU-T Rec. Q.1228 SDL diagrams in SDT source format and in PDF format</td>
</tr>
<tr>
<td>Q.1238.1 (06/00)</td>
<td>This Recommendation includes an electronic attachment containing the ASN.1 definitions for the IN CS-3 common aspects</td>
</tr>
<tr>
<td>Q.1238.2 (06/00)</td>
<td>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</td>
</tr>
<tr>
<td>Q.1238.3 (06/00)</td>
<td>This Recommendation includes an electronic attachment containing the ASN.1 definitions for the IN CS-3 SCF-SRF interface</td>
</tr>
<tr>
<td>Q.1238.4 (06/00)</td>
<td>This Recommendation includes an electronic attachment containing the ASN.1 definitions for the IN CS-3 SCF-SDF interface</td>
</tr>
<tr>
<td>Q.1238.5 (06/00)</td>
<td>This Recommendation includes an electronic attachment containing the ASN.1 definitions for the IN CS-3 SDF-SDF interface</td>
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<tr>
<td>Q.1238.6 (06/00)</td>
<td>This Recommendation includes an electronic attachment containing the ASN.1 definitions for the IN CS-3 SCF-SCF interface</td>
</tr>
<tr>
<td>Q.1238.7 (06/00)</td>
<td>This Recommendation includes an electronic attachment containing the ASN.1 definitions for the IN CS-3 SCF-CUSF interface</td>
</tr>
<tr>
<td>Q.1248.1 (07/01)</td>
<td></td>
</tr>
<tr>
<td>Q.1248.2 (07/01)</td>
<td></td>
</tr>
<tr>
<td>Q.1248.3 (07/01)</td>
<td></td>
</tr>
<tr>
<td>Q.1248.4 (07/01)</td>
<td></td>
</tr>
<tr>
<td>Q.1248.5 (07/01)</td>
<td></td>
</tr>
<tr>
<td>Q.1248.6 (07/01)</td>
<td></td>
</tr>
<tr>
<td>Q.1248.7 (07/01)</td>
<td></td>
</tr>
<tr>
<td>Q.1600bis (12/99)</td>
<td>This Recommendation includes an electronic attachment containing the ATS in machine processable form and in pdf form for ISUP97/INAP CS-1 interaction</td>
</tr>
<tr>
<td>Q.1950 (07/01)</td>
<td>Withdrawn</td>
</tr>
<tr>
<td>Series</td>
<td>Subject</td>
</tr>
<tr>
<td>--------</td>
<td>---------</td>
</tr>
<tr>
<td>Q.2991.1 (12/99)</td>
<td>This Recommendation includes an electronic attachment containing Test Purpose list for network integration testing</td>
</tr>
<tr>
<td>Q.2991.2 (12/99)</td>
<td>This Recommendation includes an electronic attachment containing the ATS in machine processable form and in pdf form for network integration testing</td>
</tr>
<tr>
<td>T.24 (06/98)</td>
<td>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 <a href="mailto:Sales@itu.int">Sales@itu.int</a>). 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.</td>
</tr>
<tr>
<td>T.24 Amendment 1 (02/00)</td>
<td></td>
</tr>
<tr>
<td>T.83 (11/94)</td>
<td>This Recommendation includes 3 diskettes containing compliance test data for the generic encoder and decoder compliance tests</td>
</tr>
<tr>
<td>T.87 (06/98)</td>
<td>This Recommendation includes one diskette containing the JPEG-LS Lossless and near-lossless image compression reference implementation and a conformance testing image set</td>
</tr>
<tr>
<td>T.803 (11/02)</td>
<td></td>
</tr>
<tr>
<td>T.804 (08/02)</td>
<td></td>
</tr>
<tr>
<td>T.870 (03/02)</td>
<td>This Recommendation includes an electronic attachment containing the data set used for implementing the JPEG-LS T.870 extension conformance test</td>
</tr>
<tr>
<td>V.56ter (08/96)</td>
<td>This Recommendation includes 2 diskettes containing the data files used for the voiceband duplex modems throughput tests</td>
</tr>
<tr>
<td>X.633 Add.1 (09/98)</td>
<td>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</td>
</tr>
<tr>
<td>X.634 Add.1 (09/98)</td>
<td>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</td>
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</table>
The following is a list of the different test charts published by ITU-T, and intended to test different facsimile communication equipment. The test charts conform to severe quality constraints and are published separately. The specimens reproduced inside Recommendations are given for illustration purposes and are not suitable for measurements.

**T.22 (03/93) – Test Chart No. 4: Black and white facsimile test chart BW01**

302 × 222 mm high contrast bi-level chart containing text in a variety of languages, fonts and pitches and various black and white patterns. This test chart exists in two qualities:

- **Test chart No. 4, high quality**
  - 4530
  - 12 CHF
- **Test chart No. 4, standard quality**
  - 5494
  - 5 CHF

**T.22 (03/93) – Test Chart No. 5: Continuous tone facsimile test chart CT01**

279 × 216 mm gray scale chart containing several strips and patches of various gray scale levels, and two photographs.

- **Test chart No. 5**
  - 11941
  - 26 CHF

**T.23 (04/94) – Test Chart No. 6: 4-colour printing facsimile test chart 4CP01**

302 × 222 mm full colour chart printed from 4-colour separation negatives, containing a complete range of patterns, textures, shadings and bright and pastel colours.

- **Test chart No. 6**
  - 10465
  - 9 CHF

**T.24 (06/98) – Standardized digitized image set on CD-ROM**

This digitized test chart set is an integral part of Recommendation T.24 and is published with it. The 2 CD-ROMs include a set of digitized images with different resolutions:

- eight black and white ITU-T reference pages (the “CCITT images”)
- test chart No. 4 (BW01)
- one legibility test chart
- seven bi-level half tones images made by processing gray scale images with different algorithms
- test chart No. 5 (CT01)
- two gray-scale images
- test chart No. 6 (4CP01)
- 14 colour images with different resolutions and in different colour spaces (YUV, CMYK, RGB, CIELAB)
- low contrast gray scale images

- **Rec. + CD-ROM**
  - E 16670
  - F 16671
  - S 16672
  - 154 CHF
OTHER ITU-T PRODUCTS


2004

The ITU Operational Bulletin is a fortnightly service publication, prepared under the responsibility of the Telecommunication Standardization Bureau (TSB). Published on the 1st and 15th of each month, it contains the administrative and operational information exchanged between administrations/recognized operating agencies (ROAs) and other service providers, entities and organizations, in respect of the international telecommunication services made available to users, including information relating to the maritime mobile service. Various lists containing the codes, numbers or indicators allocated to countries and operators to meet the operational needs of international telecommunication services are published in annex to the Operational Bulletin.

Separate edition in E, F, S

385 CHF

Paper – Online – Electronic Bookshop

Lists annexed to Operational Bulletin

Note from the TSB

The following Lists* have been published by TSB or BR as Annexes to the ITU Operational Bulletin (OB):

<table>
<thead>
<tr>
<th>OB No.</th>
<th>Title</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>707</td>
<td>List of International Signalling Point Codes (ISPC) (According to ITU-T Recommendation Q.708 (03/99)) (Position on 1 January 2000)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>711</td>
<td>List of Signalling Area/Network Codes (SANC) (Complement to ITU-T Recommendation Q.708 (03/99)) (Position on 1 March 2000)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>717</td>
<td>List of ITU-T Recommendation E.164 assigned country codes (Position on 1 June 2000)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>719</td>
<td>Dialling Procedures (International prefix, national (trunk) prefix and national (significant) number) (In accordance with ITU-T Recommendation E.164 (05/97)) (Position on 1 July 2000)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>720</td>
<td>List of Data Country or Geographical Area Codes (Complement to ITU-T Recommendation X.121) (Position on 15 July 2000)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>725</td>
<td>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)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>727</td>
<td>List of issuer identifier numbers for the international telecommunication charge card (In accordance with ITU-T Recommendation E.118) (Position on 1 November 2000)</td>
<td>20 CHF</td>
</tr>
<tr>
<td><strong>OB No.</strong></td>
<td><strong>Title</strong></td>
<td><strong>Price</strong></td>
</tr>
<tr>
<td>-----------</td>
<td>-----------</td>
<td>-----------</td>
</tr>
<tr>
<td>735</td>
<td>List of international signalling point codes (ISPC) (According to ITU-T Recommendation Q.708 (03/99)) (Position on 1 March 2001)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>737</td>
<td>List of signalling area/network codes (SANC) (Position on 1 April 2001)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>739</td>
<td>List of ITU carrier codes (According to ITU-T Recommendation M.1400 (02/2000))</td>
<td>20 CHF</td>
</tr>
<tr>
<td>741</td>
<td>List of mobile country or geographical area codes (Position on 1 June 2001)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>746</td>
<td>Access codes/numbers for mobile networks (According to ITU-T Recommendation E.164 (05/97)) (Position on 15 August 2001)</td>
<td>20 CHF</td>
</tr>
<tr>
<td></td>
<td>List of data network identification codes (DNIC) (According to ITU-T Recommendation X.121 (10/00)) (Position on 15 August 2001)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>757</td>
<td>List of issuer identifier numbers for the international telecommunication charge card (in accordance with ITU-T Recommendation E.118) (Position on 1 February 2002)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>759</td>
<td>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)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>761</td>
<td>List of international signalling point codes (ISPC) (According to ITU-T Recommendation Q.708 (03/99)) (Position on 1 April 2002)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>763</td>
<td>List of ITU-T Recommendation E.164 assigned country codes (Position on 1 May 2002)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>764</td>
<td>List of telegram destination indicators (In accordance with ITU-T Recommendation F.32) (Position on 15 May 2002)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>765</td>
<td>Access codes/numbers for mobile networks (According to ITU-T Recommendation E.164) (Position on 1 June 2002)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>766</td>
<td>List of country or geographical area codes for non-standard facilities in telematic services (Position on 15 June 2002)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>767</td>
<td>List of signalling area/network codes (SANC) (Position on 1 July 2002)</td>
<td>20 CHF</td>
</tr>
<tr>
<td></td>
<td>BR: Status of radiocommunications between amateur stations of different countries (In accordance with optional provision No. 25.1 of the Radio Regulations) and form of call signs assigned by each administration to its amateur and experimental stations (Position on 1 July 2002)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>777</td>
<td>List of data network identification codes (DNIC) (According to ITU-T Recommendation X.121) (Position on 1 December 2002)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>783</td>
<td>List of mobile country or geographical area codes (Position on 1 March 2003)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>785</td>
<td>List of issuer identifier numbers for the international telecommunication charge card (In accordance with ITU-T Recommendation E.118) (Position on 1 April 2003)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>OB No.</td>
<td>Title</td>
<td>Price</td>
</tr>
<tr>
<td>-------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>787</td>
<td>Dialling procedures (International prefix, national (trunk) prefix and national (significant) number) (In accordance with ITU-T Recommendation E.164 (05/97)) (Position on 1 May 2003)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>789</td>
<td>Access codes/numbers for mobile networks (According to ITU-T Rec. E.164) (Position on 1 June 2003)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>797</td>
<td>Q.708 (03/99)) (Position on 1 October 2003)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>798</td>
<td>List of data network identification codes (DNIC) (According to ITU-T Recommendation X.121) (Position on 15 October 2003)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>799</td>
<td>List of signalling area/network codes (SANC) (Position on 1 November 2003)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>801</td>
<td>Mobile Network Code (MNC) for the international identification plan for mobile terminals and mobile users (According to ITU-T Rec. E.212 (11/98)) (Position on 1 December 2003)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>803</td>
<td>List of mobile country or geographical area codes (Position on 1 January 2004)</td>
<td>20 CHF</td>
</tr>
<tr>
<td>805</td>
<td>List of ITU-T Recommendation E.164 assigned country codes (Position on 1 February 2004)</td>
<td>20 CHF</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Article number</th>
<th>Publication title</th>
<th>Lang. code</th>
<th>Unit price</th>
<th>Quantity</th>
<th>Total CHF</th>
</tr>
</thead>
</table>

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