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Integrated Services Digital Network (ISDN); Signalling System No.7; Message Transfer Part (MTP) to support international interconnection; Part 1: Protocol specification [ITU-T Recommendations Q.701, Q.702, Q.703, Q.704, Q.705, Q.706, Q.707 and Q.708 modified]

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Integrated Services Digital Network (ISDN); Signalling System No.7; Message Transfer Part (MTP) to support international interconnection; Part 1: Protocol specification

[ITU-T Recommendations Q.701, Q.702, Q.703, Q.704, Q.705, Q.706, Q.707 and Q.708 modified]

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

The present document is part 1 of a multi-part deliverable covering the Integrated Services Digital Network (ISDN); Signalling System No.7; Message Transfer Part (MTP) to support international interconnection, as identified:

Part 1: "Protocol specification [ITU-T Recommendations Q.701, Q.702, Q.703, Q.704, Q.705, Q.706, Q.707 and Q.708 modified]";

Part 2: "Protocol Implementation Conformance Statement (PICS) proforma specification".

The present document also incorporates agreements made at ITU-T since the last formal issue of the Q.70x Recommendations.

National transposition dates

Date of latest announcement of this EN (doa):	30 September 2003
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 March 2004
Date of withdrawal of any conflicting National Standard (dow):	31 March 2004

Endorsement notice

The elements of ITU-T Recommendations Q.701 [1] , Q.702 [2] , Q.703 [3] , Q.704 [4] , Q.705 [5] , Q.706 [6] , Q.707 [7] and Q.708 [8] apply, with the following modifications:

Insert the following clauses 1, 2 and 3:

1 Scope

The present document defines the Message Transfer Part (MTP) protocol of Signalling System No.7 for application in the international network and, optionally, in public networks.

The present document is applicable to the international network and is not meant to restrict national networks.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies.

Referenced documents which are not found to be publicly available in the expected location might be found at http://docbox.etsi.org/Reference.

[1] ITU-T Recommendation Q.701 (1993): "Functional description of the message transfer part (MTP) of Signalling System No. 7".

[2] ITU-T Recommendation Q.702 (1998): "Signalling data link".

[3] ITU-T Recommendation Q.703 (1996): "Signalling link".

[4] ITU-T Recommendation Q.704 (1996): "Signalling network functions and messages".

[5] ITU-T Recommendation Q.705 (1993): "Signalling network structure".

[6] ITU-T Recommendation Q.706 (1993): "Message transfer part signalling performance".

[7] ITU-T Recommendation Q.707 (1998): "Testing and maintenance".

[8] ITU-T Recommendation Q.708 (1998): "Assignment procedures for international signalling point codes".

[9] ITU-T Recommendation E.733: "Methods for dimensioning resources in Signalling System No. 7 networks".

[10] ITU-T Recommendation Q.2210: "Message transfer Part level 3 Functions and Messages".

[11] ETSI EG 201 693: "Integrated Services Digital Network (ISDN); Integrated Services Digital Network (ISDN); Master list of codepoints".

3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

ISDN	Integrated Services Digital Network
LSSU	Link Status Signal Unit
MSU	Message Signal Unit
MTP	Message Transfer Part
SIF	Signalling Information Field
SIO	Service Information Octet
SP	Signalling Point
TRA	Traffic Restart Allowed message

4   Modifications to ITU-T Recommendations Q.701 to Q.708

The elements of ITU-T Recommendations Q.701 [1] to Q.708 [8] apply with the following exceptions and modifications.

4.1   National options

No national options, or remarks with regard to national options, shall apply to the present document.

4.2   Signalling data links

A standard bit rate of 64 kbit/s on signalling data links shall apply.

If signalling data links are to be provided over an analogue transmission path, any necessary digital to analogue or analogue to digital conversion shall be on the multiplexed transmission link after interface point C, as defined in figure 2 of ITU-T Recommendation Q.702 [2] .

4.3   Network Indicator

Only the value 00 shall be used for the Network Indicator.

5   Modifications to ITU-T Recommendation Q.701

Subclause 8.5

Modify the text as follows:

When the MTP restart procedure is terminated *(i.e. when the TRA messages have been broadcast)*, the MTP indicates the end of MTP restart to all local MTP Users showing each signalling point's accessibility or inaccessibility. The means of doing this is implementation dependent (see 9/Q.704 [4]).

6   Modifications to ITU-T Recommendation Q.703

i) Timer values

The timer values included in ITU-T Recommendation Q.703 [3] shall apply with the following exceptions:

T1 (4,8 kbit/s), T2 low, T2 high, T4n (4,8 kbit/s), T4e (4,8 kbit/s), T6 (4,8 kbit/s) and T7 (4,8 kbit/s) shall not apply for the present document.

ii) subclause 1.4.1 - changes to error correction method selection criteria, and reference to E.733 [9], as follows:

"a) the Basic method applies for signalling links for which the one way propagation delay is up to 30ms (loop propagation delay up to 60 ms);

b) the PCR method applies for signalling links for which the one way propagation delay is greater than or equal to 125ms and for all signalling links established via satellite;

c) for one way propagation delays between 30 ms and 125 ms additional criteria need to be considered.

   NOTE: Additional information and guidelines are provided in ITU-T Recommendation E.733 [9] (§7.1.3- "Choosing between basic and PCR error correction")".

iii) SDL - changes that were previously agreed but were not published in Q.703 [3] (07/96). The affected SDL's are figure 8 (sheet 6), figure 13 (sheet 3), figure 13 (sheet 5), figure 16 (sheet 3), all previously agreed changes. Also figure 15 (sheet 6) to be changed with respect to decision FSNF<=Z<=FSNL from FSNF<Z<FSNL and check for empty retransmission buffer. For details refer to Implementor's guide Q.703 (1999) (available at http://www.itu.int/itudoc/itu-t/com11/implgd/index.html) for ITU-T Recommendation Q.703 [3].

7 Modifications to ITU-T Recommendation Q.704

Timer values

The timer values included in ITU-T Recommendation Q.704 [4] shall apply with the following exceptions:

T7, T11, T15, T16 and T24 shall not apply for the present document.

7.1 Signalling link management

Of the requirements in ITU-T Recommendation Q.704 [4], only the basic signalling link management functions of subclause 12.2 shall apply, while subclauses 12.3 to 12.6 shall not apply.

7.2 Subclause 14.2.1

The SI values recorded in the Master list of codepoints [11] apply.

7.3 Table 1/Q.704

H1 Codes 0011 and 0100 for message group CHM (H0 = 0001) are reserved for use according to ITU-T Recommendation Q.2210 [10] (MTP-3b).

7.4 Subclause 15.17.4

The user part identity field values within the user part unavailable message recorded in the Master list of codepoints [11] applies.

7.5 SDL changes

Editorial errors in ITU-T Recommendation Q.704 [4] published versions of sheets 11 and 16 of figure 29 and a publication error which duplicated fig.30 sheets 5 and 6 (i.e. the correct sheet 6 was omitted). For details refer to Implementor's guide Q.704 (1999) (available at http://www.itu.int/itudoc/itu-t/com11/implgd/index.html) for ITU-T Recommendation Q.704 [4].

8 Modifications to ITU-T Recommendation Q.705

The screening method given in §8.2 ii) of ITU-T Recommendation Q.705 [5] shall not apply. For more information on this the Implementor's Guide Q.705 (1997) (available at http://www.itu.int/itudoc/itu-t/com11/implgd/index.html) for ITU-T Recommendation Q.705 [5] should be consulted.

9 Modifications to ITU-T Recommendation Q.706

There are no changes to Q.706 [6] normative material. However it should be noted that changes to informative material on queuing delay calculations are currently being developed within ITU-T SG11. For more information on this the Implementor's Guide Q.706 (1999) (available at http://www.itu.int/itudoc/itu-t/com11/implgd/index.html) for ITU-T Recommendation Q.706 [6] should be consulted.