SLOVENSKI STANDARD
SIST ETS 300 008-1:1998

01-november-1998

8][ ]HˇUˇbcˇca fYÿˆYˇn`]bhˇY[ f]fUb]a ]ˇghcf]hj Ua ]ˇf¼G8 B¼!ˇG][ bUˇ]nU¶ˇ¹Uˇýhˇʺ+˙!ˇGdcfcˇˇ]ˇbc !dfYbcgb]ˇXYˇˇf¼HD¼nUˇdcXdcfcˇaˇYXbUfcXbY[ Uˇa YXgYVcˈbY[ Uˇdcj Yncj Ub¶U!ˇˇ%ˈ XYˈˇGdYWˌ[ˌ_U¶ˈUˇdfchˌc_`UˈfUfYcVˈ]ˇcj UbUˇdf]dcfcˇˇ]ˇU÷HÐˇ!H˙E"+\$%f‰-'ˇ¼žE"+\$& f‰,,¼žE"+\$'ˇˇXcˈˇE"+\$*ˈf‰-'ˇ¼žE"+\$+ˇf‰,,¼]bˈE"+\$*ˈf‰-'ˇ¼¼

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 (1993), Q.702 (1988), Q.703 to Q.706 (1993), modified]

Ta slovenski standard je istoveten z: **ETS 300 008-1 Edition 2**

ICS:

33.080	Digitalno omrežje z integriranimi storitvami (ISDN)	Integrated Services Digital Network (ISDN)

SIST ETS 300 008-1:1998 **en**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

EUROPEAN
TELECOMMUNICATION
STANDARD

ETS 300 008-1

January 1997

Second Edition

Source: ETSI TC-SPS

Reference: DE/SPS-02033

ICS: 33.080

Key words: ISDN, SS7, MTP

Integrated Services Digital Network (ISDN);

Signalling System No.7;

iTeh **Message Transfer Part (MTP)** EVIEW

(standards.iteh.ai)
to support international interconnection;

Part 1: Protocol specification
SIST ETS 300 008-1:1998
https://standards.iteh.ai/catalog/standards/sist/a6293ce8-75a2-4211-9ea2-
ede5327d12e9/sist-ets-300-008-1-1998

[ITU-T Recommendations Q.701 (1993), Q.702 (1988), Q.703 to Q.706 (1993),

Q.707 (1988) and Q.708 (1993), modified]

ETSI

European Telecommunications Standards Institute

ETSI Secretariat

Postal address: F-06921 Sophia Antipolis CEDEX - FRANCE
Office address: 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE
X.400: c=fr, a=atlas, p=etsi, s=secretariat - **Internet:** secretariat@etsi.fr

Tel.: +33 4 92 94 42 00 - Fax: +33 4 93 65 47 16

Foreword

This European Telecommunication Standard (ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI).

The second edition of ETS 300 008 covering the Signalling System No.7 Message Transfer Part (MTP) signalling protocol to support international interconnection is structured as a multi-part standard (of which this ETS forms part 1) as described below:

Part 1: **"Protocol specification [ITU-T Recommendations Q.701 (1993), Q.702 (1988), Q.703 to Q.706 (1993), Q.707 (1988) and Q.708 (1993), modified]";**

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

Part 3: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification".

Transposition dates	
Date of adoption	20 December 1996
Date of latest announcement of this ETS (doa):	30 April 1997
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 October 1997
Date of withdrawal of any conflicting National Standard (dow):	31 October 1997

iTeh STANDARD PREVIEW

(standards.iteh.ai)

Endorsement notice

The text of ITU-T Recommendations Q.701 (1993), Q.702 (1988), Q.703 to Q706 (1993), Q.707 (1988) and Q.708 (1993), was approved by ETSI as an ETS with agreed modifications as given below.

NOTE: New or modified text is indicated using sidebars. In addition, underlining and/or strike-out are used to highlight detailed modifications where necessary.

Whilst every care has been taken in the preparation and publication of this document, errors in content, typographical or otherwise, may occur. If you have comments concerning its accuracy, please write to "ETSI Editing and Committee Support Dept." at the address shown on the title page.

Global modifications to ITU-T Recommendations Q.701 to Q.708

Insert the following two clauses (scope and abbreviations):

Scope

This first part of ETS 300 008 defines the Message Transfer Part (MTP) protocol of Signalling System No.7 for application in the international network and, optionally, in public networks

This ETS is applicable to the international network and is not meant to restrict national networks.

Abbreviations

For the purposes of this ETS, the following abbreviations apply:

DPC	Destination Point Code
ISDN	Integrated Services Digital Network
LSSU	Link Status Signal Unit
MSU	Message Signal Unit
MTP	Message Transfer Part
PSTN	Public Switched Telecommunications Network
SIF	Signalling Information Field
SIO	Service Information Octet
SP	Signalling Point
STP	Signalling Transfer Point
TFP	Transfer Prohibited message
TRA	Traffic Restart Allowed message
UPU	User Part Unavailable message

The following exceptions to ITU-T Recommendations Q.701 to Q.708 shall apply:

National options

No national options, or remarks with regard to national options, shall apply to this ETS.

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/Q.702.

Network Indicator

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

Page 4
ETS 300 008-1: January 1997

Modifications to ITU-T Recommendation Q.701

Page 20, 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).

Modifications to ITU-T Recommendation Q.703

Timer values

The timer values included in ITU-T Recommendations Q.703 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 this ETS.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Modifications to ITU-T Recommendation Q.704

Timer values

The timer values included in ITU-T Recommendations Q.704 shall apply with the following exceptions:

T7, T11, T15, T16 and T24 shall not apply for this ETS.

Signalling link management

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

Page 6, subclause 2.3.2, fourth line

Modify the fourth line as follows:

A load sharing collection of two or more link sets is called a combined link set.

Page 25, subclause 4.2.1, third paragraph, second sentence

Modify the second sentence as follows:

An alternative combined linkset may consist of two or more (or all) of the remaining available link sets, which may carry signalling traffic towards the concerned destination.

Page 31, subclause 5.6.2, fifth paragraph, first sentence

Modify the first sentence as follows:

If time-controlled changeover has been initiated according to case ii) above and if a changeover order is received from the remote end and during the Time T1, it is advantageous to switch to the normal changeover procedure including retrieval because unnecessary message loss or sending of old messages is avoided in a simple way.

Page 32, subclause 5.6.2, sixth paragraph, fourth sentence

Modify the fourth sentence as follows:

The decision whether processor outage is of long-term is a local one.

Page 33, subclause 6.2.5, first paragraph, second sentence
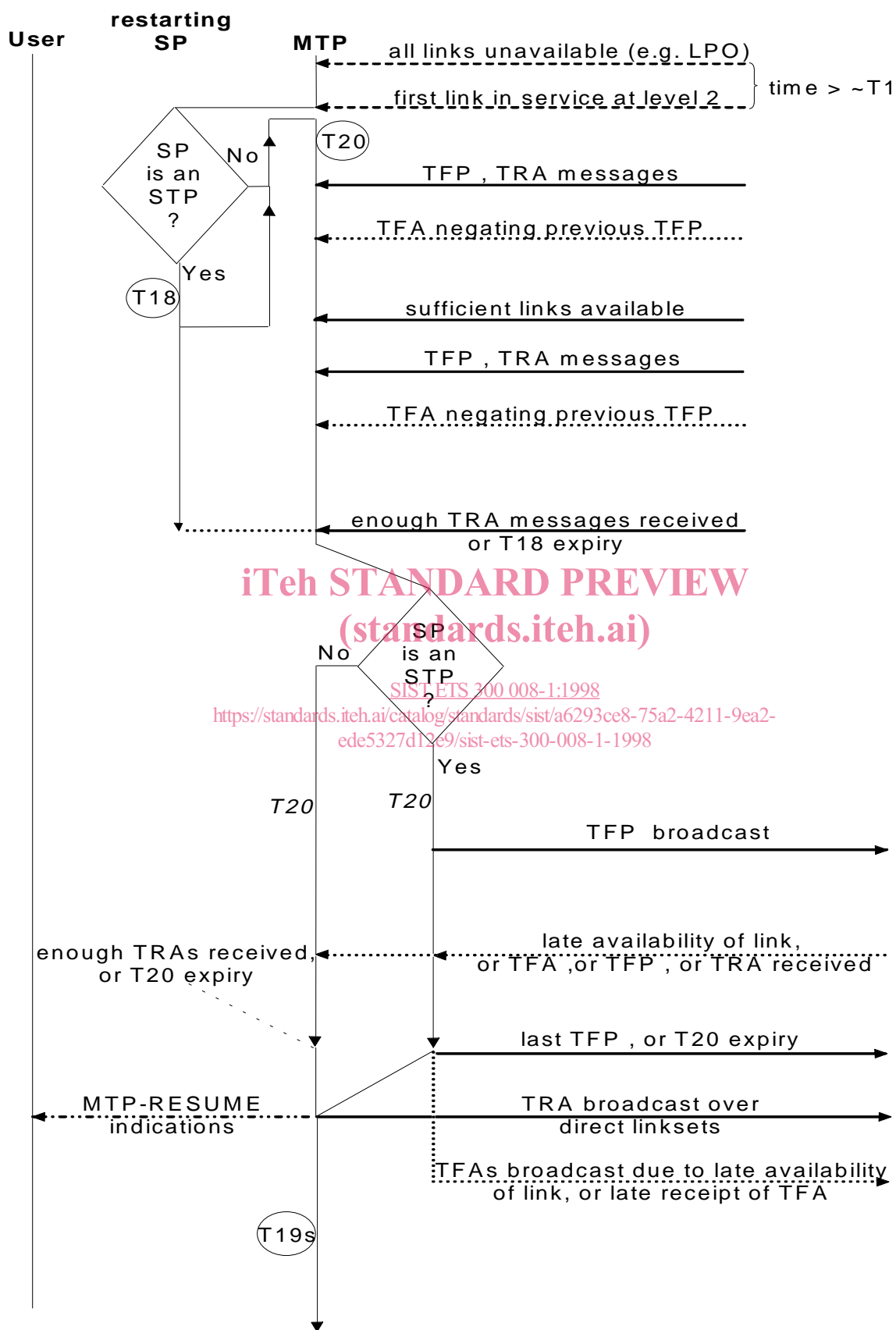
Modify the second sentence as follows:

This is done also when the concerned signalling point is accessible, but there is no signalling route to it using the same outgoing signalling link(s) (or one of the same signalling links) from which traffic will be diverted.

Page 34, subclause 6.3

Add the following note at the end of subclause 6.3:

> NOTE: The sequence control procedure during changeback can only guarantee correct sequencing of MSUs in all cases if the alternative link terminates in the same signalling point (i.e. the destination of the changeback declaration) as the newly available one.

Page 42, subclause 9.7.1

Replace the sequence diagram by:

Page 43, subclause 9.7.2

Replace the sequence diagram by: