SLOVENSKI STANDARD

DSIST ETS 300 287-1:1998

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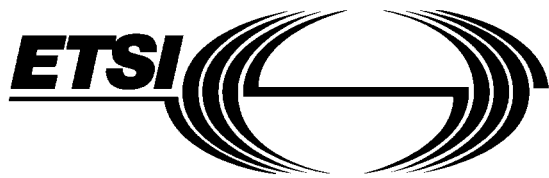fƱfYcVˈ]_cjƱbƱdf]dcfcˈˠUˈ+Hˈ!HˈEˈ++%XcˈEˈ++)ˈf%-ˈˠƱ

Integrated Services Digital Network (ISDN); Signalling System No.7; Transaction
Capabilities (TC) version 2; Part 1: Protocol specification [ITU-T Recommendations
Q.771 to Q.775 (1993), modified]

Ta slovenski standard je istoveten z: **ETS 300 287-1 Edition 2**

ICS:

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

DSIST ETS 300 287-1:1998   **en**

EUROPEAN

TELECOMMUNICATION

STANDARD

ETS 300 287-1

November 1996

Second Edition

Source: ETSI TC-SPS

Reference: RE/SPS-02035

ICS: 33.080

Key words: ISDN, SS7, TCAP

Integrated Services Digital Network (ISDN);
Signalling System No.7;
Transaction Capabilities (TC) version 2;
Part 1: Protocol specification

[ITU-T Recommendations Q.771 to Q.775 (1993), modified]

ETSI

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Foreword

This second edition 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 300 287 covering the Signalling System No.7 Transaction Capabilities (TC) version 2 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.771 to Q.775 (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	8 November 1996
Date of latest announcement of this ETS (doa):	28 February 1997
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 August 1997
Date of withdrawal of any conflicting National Standard (dow):	31 August 1997

Endorsement notice

The text of ITU-T Recommendations Q.771, Q.772, Q.773, Q.774 and Q.775 (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.

Global modifications to ITU-T Recommendations Q.771 to Q.775

Insert the following two clauses (scope and normative references):

Scope

This first part of ETS 300 287 defines the Transaction Capabilities[1] (TC) signalling protocol to be used in and between networks, for non-circuit related services which use Signalling System No.7 for inter-network dialogues. Only those parts of TC which are used by the above services need to be provided.

The support of TC by terminal equipment is outside the scope of this ETS.

This ETS covers only TC for use over a network layer consisting of Signalling System No.7 Message Transfer Part (MTP) plus Signalling Connection Control Part (SCCP).

> NOTE: This is valid for both 1988 and 1993 versions.

Normative references

This ETS incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

[1]	CCITT Recommendation X.219 (1988): "Information Technology - Open Systems Interconnection - Association Control Service Element (ACSE)".
[2]	ITU-T Recommendation X.680 (1994): "Information Technology - Abstract Syntax Notation One (ASN.1): Specification of Basic Notation".
[3]	ITU-T Recommendation X.880 (1994): "Information Technology - Remote Operations - Concept, Model and Notation".
[4]	ITU-T Recommendation X.881 (1994): "Information Technology - OSI Realisations: Remote Operations Service Element (ROSE) Service Definition".

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[1] For historical reasons, the terms Transaction Capabilities (TC) and Transaction Capabilities Application Part (TCAP) are used interchangeably.

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Modifications to ITU-T Recommendation Q.771

Page 9, subclause 3.1.2.1, first bullet item

Replace the definition of "Abort Reason" with the following:

- **"Abort Reason"** - Indicates whether a dialogue is aborted because the received application context name is not supported and no alternative one can be proposed (abort reason = application context not supported), because the dialogue cannot be established for any other user reason (abort reason = dialogue refused) or because a user abort situation has been encountered (abort reason = user specific).

Modifications to ITU-T Recommendation Q.772

Pages 4 and 5, subclauses 3.7.2.3, 3.7.3.3 and 3.7.4.5 "mistyped parameter"

The definition of "mistyped parameter" provided in subclauses 3.7.2.3, 3.7.3.3 and 3.7.4.5 shall also cover error conditions such as ENUMERATED error, value range error, size constraint error, value constraint error and presence constraint error.

Page 7, subclause 4.2.5 "result source diagnostic"

Modify the first sentence of the last paragraph as follows:

The "dialogue service user" can further qualify the result with a diagnostic with values "null" or "no reason given" (for the case where no diagnostic is offered) or "application-context-name-not-supported" (for the case when the dialogue is refused because the application context is not supported).

Modifications to ITU-T Recommendation Q.773

Page 1, subclause 3.1

> NOTE: This correction does not change the transfer syntax.

Replace the EXPORTS statement by:

```
EXPORTS OPERATION, ERROR, MessageType, Component, InvokeIdType;
```

Pages 2 and 4, subclause 3.1

> NOTE: This correction does not change the transfer syntax.

Add a range constraint of "(0..127)" to all unconstrained INTEGERs, i.e., the following shall be modified:

```
P-AbortCause
GeneralProblem
InvokeProblem
ReturnResultProblem
ReturnErrorProblem
```

When a value, which is not assigned but is within the specified range, is received, this value should be ignored. Values out of range may lead to a syntax error.

Pages 4 and 5, subclause 3.2

> NOTE: This correction does not change the transfer syntax.

Add a size constraint of "(1..10)" to "user-information" when carried within AARQ-apdu, AARE-apdu, RLRQ-apdu, RLRE-apdu and ABRT-apdu:

```
user-information    [30] IMPLICIT SEQUENCE SIZE (1..10) OF EXTERNAL OPTIONAL
```

Page 5, subclause 3.2

> NOTE: This correction does not change the transfer syntax.

Add a range constraint of "(0..127)" to all unconstrained INTEGERs, i.e., the following shall be modified:

```
ABRT-source
Associate-result
dialogue-service-user
dialogue-service-provider
Release-request-reason
Release-response-reason
```

When a value, which is not assigned but is within the specified range, is received, this value should be ignored. Values out of range may lead to a syntax error.

Page 29, subclause 4.2.3.1, table 46/Q.773

The Result Tag shall be coded 1010 0010.

Page 32, subclause 4.2.3.1, tables 55/Q.773 and 56/Q.773

The integer element shall be "mandatory".

Page 32, subclause 4.2.3.1, table 57/Q.773

The Dialogue Service Provider Tag shall be coded 1010 0010.

The Dialogue Service User Tag shall be coded 1010 0001.

Modifications to ITU-T Recommendation Q.774

Page 10, table 3/Q.774, note 3

Insert at the end of note 3:

or "dialogue-refused".

Page 12, subclause 3.2.1.2, "Dialogue End"

Replace the penultimate paragraph "If the ... described in 3.2.2" by:

When a TC-User has received a TC-BEGIN indication primitive including some user information it finds unacceptable, it may issue a TC-U-ABORT request primitive with the "Abort Reason" parameter set to "dialogue-refused". This causes a Dialogue Response (AARE) APDU to be formatted. The setting of the values for various fields in the AARE APDU are as follows: the "application-context-name" is identical to the received one, the result field is set to "reject-permanent", and the "result-source-diagnostic" is "dialogue-service-user (null)" or "dialogue-service-user (no-reason-given)".

If the "Abort reason" parameter in the TC-U-ABORT request primitive is absent or has a value other than "application-context-name-not-supported" or "dialogue-refused", this describes an abnormal termination of the dialogue and is described in subclause 3.2.2.

Page 41, figure A.5 (sheet 6 of 11)

Insert in the second decision box before the question mark:

or "dialogue-refused"

Modifications to ITU-T Recommendation Q.775

No modifications identified.