



SLOVENSKI STANDARD

SIST ETS 300 356-1:1997

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Digitalno omrežje z integriranimi storitvami (ISDN) - Signalizacija št. 7 - Druga različica ISDN-uporabniškega dela (ISUP) za mednarodni vmesnik - 1. del: Osnovne storitve (ITU -T Priporočila Q.761 do Q.764 1993), spremenjeno)

Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 1: Basic services [ITU-T Recommendations Q.761 to Q.764 (1993), modified]

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Ta slovenski standard je istoveten z: ETS 300 356-1 Edition 1

ICS:

33.080	Digitalno omrežje z integriranimi storitvami (ISDN)	Integrated Services Digital Network (ISDN)
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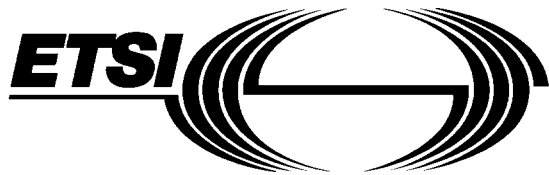
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**Integrated Services Digital Network (ISDN);
Signalling System No.7;
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Part 1: Basic services**

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[ITU-T Recommendations Q.761 to Q.764 (1993), modified]

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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).

This ETS is part 1 of a multi-part standard covering the ISDN User Part (ISUP) version 2 for the international interface, as described below:

- Part 1:** "Basic services";
- Part 2: "ISDN supplementary services";
- Part 3: "Calling Line Identification Presentation (CLIP) supplementary service";
- Part 4: "Calling Line Identification Restriction (CLIR) supplementary service";
- Part 5: "Connected Line Identification Presentation (COLP) supplementary service";
- Part 6: "Connected Line Identification Restriction (COLR) supplementary service";
- Part 7: "Terminal Portability (TP) supplementary service";
- Part 8: "User-to-User Signalling (UUS) supplementary service";
- Part 9: "Closed User Group (CUG) supplementary service";
- Part 10: "Subaddressing (SUB) supplementary service";
- Part 11: "Malicious Call Identification (MCID) supplementary service";
- Part 12: "Conference call, add-on (CONF) supplementary service";
- Part 14: "Explicit Call Transfer (ECT) supplementary service";
- Part 15: "Diversion supplementary services";
- Part 16: "Call Hold (HOLD) supplementary service";
- Part 17: "Call Waiting (CW) supplementary service";
- Part 18: "Completion of Calls to Busy Subscriber (CCBS) supplementary service";
- Part 19: "Three party (3PTY) supplementary service".

NOTE: Part 13 has been withdrawn.

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Transposition dates	
Date of latest announcement of this ETS (doa):	31 May 1995
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	30 November 1995
Date of withdrawal of any conflicting National Standard (dow):	30 November 1995

Endorsement notice

The text of ITU-T Recommendations Q.761, Q.762, Q.763 and Q.764 (1993) was approved by ETSI as an ETS with agreed modifications as given below.

Global modifications to ITU-T Recommendations Q.761 to Q.764

Insert the following four clauses (scope, normative references, definitions, and abbreviations):

Scope

This first part of ETS 300 356 specifies procedures to support basic bearer services and supplementary services defined for the pan-European Integrated Services Digital Network (ISDN) as provided by the European public telecommunications operators by means of the Signalling System No.7 protocol for the ISDN User Part (ISUP).

This ETS does not specify the additional protocol requirements where the service is provided to the user via a telecommunications network that is not an ISDN.

Although this ETS applies only to the international section, the specification of functions, formats and codes of messages and signals, and actions performed at originating and destination local exchanges are retained. All formats, codes and procedures, if any, marked for national use are included for informative purposes only.

NOTE: In the case where a national signalling system behaves differently, the international gateway exchange is to support both the concerned national and the international network and the services and equipment supported by both the concerned national and the international network.

This ETS is compatible with ETS 300 121 [5] (CCITT Recommendation Q.767).

Descriptions of interworking with CCITT Blue Book (1988) exchanges are informative only.

Normative references

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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 amendments or revision. For undated references the latest edition of the publication referred to applies.

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|-----|---|
| [1] | CCITT Recommendation E.164 (1991): "Numbering plan for the ISDN era". |
| [2] | ITU-T Recommendation I.112 (1993): "Vocabulary of terms for ISDNs". |
| [3] | CCITT Recommendation I.210 (1993): "Principles of telecommunication services supported by an ISDN and the means to describe them". |
| [4] | ITU-T Recommendation Q.850 (1993): "Usage of cause and location in the digital subscriber signalling system No.1 and the signalling system No.7 ISDN user part". |
| [5] | ETS 300 121 (1992): "Integrated Services Digital Network (ISDN); Application of the ISDN User Part (ISUP) of CCITT Signalling System No.7 for international ISDN interconnections (ISUP version 1)". |
| [6] | ETS 300 356-2 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 2: ISDN supplementary services [ITU-T Recommendation Q.730 (1993), modified]". |

- [7] ETS 300 356-3 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 3: Calling Line Identification Presentation (CLIP) supplementary service [ITU-T Recommendation Q.731, clause 3 (1993), modified]".
- [8] ETS 300 356-4 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 4: Calling Line Identification Restriction (CLIR) supplementary service [ITU-T Recommendation Q.731, clause 4 (1993), modified]".
- [9] ETS 300 356-5 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 5: Connected Line Identification Presentation (COLP) supplementary service [ITU-T Recommendation Q.731, clause 5 (1993), modified]".
- [10] ETS 300 356-6 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 6: Connected Line Identification Restriction (COLR) supplementary service [ITU-T Recommendation Q.731, clause 6 (1993), modified]".
- [11] ETS 300 356-7 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 7: Terminal Portability (TP) supplementary service [ITU-T Recommendation Q.733, clause 4 (1993), modified]".
- [12] ETS 300 356-8 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 8: User-to-User Signalling (UUS) supplementary service [ITU-T Recommendation Q.737, clause 1 (1993), modified]".
- [13] ETS 300 356-9 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 9: Closed User Group (CUG) supplementary service [ITU-T Recommendation Q.735, clause 1 (1993), modified]".
- [14] ETS 300 356-10 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 10: Subaddressing (SUB) supplementary service [CCITT Recommendation Q.731, section 8 (1992), modified]".
- [15] ETS 300 356-11 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 11: Malicious Call Identification (MCID) supplementary service".
- [16] ETS 300 356-12 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 12: Conference call, add-on (CONF) supplementary service [ITU-T Recommendation Q.734, clause 1 (1993), modified]".
- [17] ETS 300 356-14 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 14: Explicit Call Transfer (ECT) supplementary service".
- [18] ETS 300 356-15 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 15: Diversion supplementary services [ITU-T Recommendation Q.732, clauses 2 to 5 (1993), modified]".

- [19] ETS 300 356-16 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 16: Call Hold (HOLD) supplementary service [ITU-T Recommendation Q.733, clause 2 (1993), modified]".
- [20] ETS 300 356-17 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 17: Call Waiting (CW) supplementary service [CCITT Recommendation Q.733, section 1 (1992), modified]".
- [21] ETS 300 356-18 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 18: Completion of Calls to Busy Subscriber (CCBS) supplementary service".
- [22] ETS 300 356-19 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 19: Three party (3PTY) supplementary service [ITU-T Recommendation Q.734, clause 2 (1993), modified]".
- [23] ETS 300 403-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1); User-network interface layer 3 specification for basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".

Definitions

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

Integrated Services Digital Network (ISDN): See ITU-T Recommendation I.112 [2], definition 308.

service; telecommunication service: See ITU-T Recommendation I.112 [2], definition 201.

subaddress: See CCITT Recommendation E.164 [1], § 12.2.

supplementary service: See ITU-TT Recommendation I.210 [3], subclause 2.4.

Abbreviations

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

3PTY	Three Party
CCBS	Completion of Calls to Busy Subscriber
CD	Call Deflection
CFB	Call Forwarding Busy
CFNR	Call Forwarding No Reply
CFU	Call Forwarding Unconditional
CLIP	Calling Line Identification Presentation
CLIR	Calling Line Identification Restriction
COLP	Connected Line Identification Presentation
COLR	Connected Line Identification Restriction

CONF	Conference call, add-on
CUG	Closed User Group
CW	Call Waiting
ECT	Explicit Call Transfer
FPH	Freephone
HOLD	Call Hold
ISDN	Integrated Services Digital Network
ISUP	ISDN User Part
MCID	Malicious Call Identification
MLPP	Multi-Level Precedence and Preemption
SUB	Subaddressing
TP	Terminal Portability
UUS	User-to-User Signalling

Throughout the text of ITU-T Recommendations Q.761 to Q.764

Replace references as shown below.

Reference in ITU-T Recommendations Q.761 to Q.764	Modified reference
ITU-T Recommendation Q.730	ITU-T Recommendation Q.730 as modified by ETS 300 356-2 [6]
ITU-T Recommendation Q.731.3	ITU-T Recommendation Q.731.3 as modified by ETS 300 356-3 [7]
ITU-T Recommendation Q.731.4	ITU-T Recommendation Q.731.4 as modified by ETS 300 356-4 [8]
ITU-T Recommendation Q.731.5	ITU-T Recommendation Q.731.5 as modified by ETS 300 356-5 [9]
ITU-T Recommendation Q.731.6	ITU-T Recommendation Q.731.6 as modified by ETS 300 356-6 [10]
ITU-T Recommendation Q.731.7	ETS 300 356-11 [15]
ITU-T Recommendation Q.731.8	ITU-T Recommendation Q.731.8 as modified by ETS 300 356-10 [14]
ITU-T Recommendation Q.732.2	ITU-T Recommendation Q.732.2 as modified by ETS 300 356-15 [18]
ITU-T Recommendation Q.732.3	ITU-T Recommendation Q.732.3 as modified by ETS 300 356-15 [18]
ITU-T Recommendation Q.732.4	ITU-T Recommendation Q.732.4 as modified by ETS 300 356-15 [18]
ITU-T Recommendation Q.732.5	ITU-T Recommendation Q.732.5 as modified by ETS 300 356-15 [18]
ITU-T Recommendation Q.732.7	ETS 300 356-14 [17]
ITU-T Recommendation Q.733.1	ITU-T Recommendation Q.733.1 as modified by ETS 300 356-17 [20]
ITU-T Recommendation Q.733.2	ITU-T Recommendation Q.733.2 as modified by ETS 300 356-16 [19]
ITU-T Recommendation Q.733.3	ETS 300 356-18 [21]
ITU-T Recommendation Q.733.4	ITU-T Recommendation Q.733.4 as modified by ETS 300 356-7 [11]
ITU-T Recommendation Q.734.1	ITU-T Recommendation Q.734.1 as modified by ETS 300 356-12 [16]
ITU-T Recommendation Q.734.2	ITU-T Recommendation Q.734.2 as modified by ETS 300 356-19 [22]
ITU-T Recommendation Q.735.1	ITU-T Recommendation Q.735.1 as modified by ETS 300 356-9 [13]
ITU-T Recommendation Q.737.1	ITU-T Recommendation Q.737.1 as modified by ETS 300 356-8 [12]
ITU-T Recommendation Q.761	ITU-T Recommendation Q.761 as modified by this ETS
ITU-T Recommendation Q.762	ITU-T Recommendation Q.762 as modified by this ETS
ITU-T Recommendation Q.763	ITU-T Recommendation Q.763 as modified by this ETS
ITU-T Recommendation Q.764	ITU-T Recommendation Q.764 as modified by this ETS
ITU-T Recommendation Q.767	ETS 300 121 [5]
ITU-T Recommendation Q.931	ITU-T Recommendation Q.931 as modified by ETS 300 403-1 [23]

Modifications to ITU-T Recommendation Q.761

Page 3, table 1/Q.761

Replace table 1/Q.761 by:

Function/service	National use according to ITU-T	International use according to ITU-T	International use according to this ETS
Basic call			
Speech/3,1 kHz audio	+	+	+
64 kbit/s unrestricted	+	+	+
Multirate connection types (Note)	+	+	+
Signalling procedures for connection type allowing fallback capability	+	+	+
Compatibility procedure	+	+	+
Confusion procedure	+	+	+
Simple segmentation	+	+	+
User part availability control	+	+	+
Propagation delay determination procedure	+	+	+
Dynamic echo control procedure	+	+	+
Tones and announcements	+	+	+
MTP pause and resume	+	+	+
Access delivery information	+	+	+
Transportation of user teleservice information	+	+	+
Generic signalling procedures for supplementary services			
End-to-end signalling - Pass along method	+	-	-
End-to-end signalling - SCCP connection oriented	+	+	+
End-to-end signalling - SCCP connectionless	+	-	-
Generic number transfer	+	+	+
Generic digit transfer	+	-	-
Generic notification procedure	+	+	+
Simple activation procedure	+	-	+
Remote operations procedure	+	-	-
Network specific facility procedures	+	-	-
Supplementary services			
DDI	+	+	+
MSN	+	+	+
CLIP/CLIR	+	+	+
COLP/COLR	+	+	+
MCID	+	+	+
SUB	+	+	+
TP	+	+	+
CFU, CFB, CFNR	+	+	+
CD	+	+	+
CW	+	+	+
HOLD	+	+	+
CONF	+	+	+
3PTY	+	+	+
CUG	+	+	+
MLPP	+	+	-
UUS, service 1 (implicit)	+	+	+
UUS, service 1 (explicit)	+	+	+
UUS, service 2	+	+	+
UUS, service 3	+	+	+
ECT	-	-	+
CCBS	-	-	+
FPH	-	-	+
Key: + support - non-support			
NOTE: Multirate connection types are 2 × 64, 384, 1 536 and 1 920 kbit/s.			

Modifications to ITU-T Recommendation Q.762

Page 2, item 1.24

Delete "(national use)".

Page 3, item 1.33

Insert the following after item 1.33:

1.33A loop prevention message (LOP): A message sent in either direction when the loop prevention procedure is performed.

Page 3, item 1.37

Delete "and the redirecting address" at the end of the text.

Page 4

Insert the following after item 2.11:

2.11A call transfer number: The call transfer number parameter is used to exchange the remote party number of the users involved in the transferred call.

2.11B call transfer reference: The call transfer reference parameter is sent in the Loop prevention message in either direction and contains an integer (0...255) expressed in pure binary allocated unambiguously to the particular ECT service invocation.

Page 4, item 2.18

Delete "(national use)".

Page 5, item 2.22

[SIST ETS 300 356-1:1997
https://standards.iteh.ai/catalog/standards/sist/b05bedfb-be64-49f1-b2cd-5ce3b6f9490a/sist-ets-300-356-1-1997](https://standards.iteh.ai/catalog/standards/sist/b05bedfb-be64-49f1-b2cd-5ce3b6f9490a/sist-ets-300-356-1-1997)

Replace "Recommendation Q.6xx" by "Recommendation Q.850".

Add the following note:

NOTE: Exceptions and clarifications to ITU-T Recommendation Q.850 [4] are given in annex ZB of this ETS.

Page 5

Insert the following after item 2.22:

2.22A CCBS call indicator: Information sent in the forward direction used in a CCBS call set-up to distinguish this call from an ordinary call at the destination local exchange.

2.22B CCBS parameter: Information sent in an Initial address message indicating that this call is a CCBS call.

Page 6, item 2.43

Add "(national use)".

Page 7

Insert the following after item 2.51:

2.51A Freephone indicators: Information sent in forward direction indicating whether the call is a freephone call or not.

Page 8, item 2.74

Delete the last sentence "Definition (...) Q.6xx".

Page 8, item 2.75

Add the following:

Definition of each location value is given in ITU-T Recommendation Q.850 [4].

NOTE: Exceptions and clarifications to ITU-T Recommendation Q.850 [4] are given in annex ZB of this ETS.

Page 8, item 2.77

Add "(national use)".

Page 8

Insert the following after item 2.77:

2.77A loop prevention indicators: Information sent in a Loop prevention message in either direction in association with a request (or a response to a request) when the loop prevention procedure is performed.

Page 8, item 2.82

Add "(national use)".

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Page 8, item 2.83

Add "(national use)".

Page 9, item 2.108

Add "(national use)".

Page 12, item 2.120

Replace the complete text by:

No facilities exist for this indicator.

Page 12, item 2.135

Delete "(national use)".

Page 13, item 2.138

Replace "an information message (unsolicited)" by "a segmentation message".

Modifications to ITU-T Recommendation Q.763

Page 1, clause 1, first paragraph

Insert after the first paragraph:

It is not necessary to check the parameter values of the parameters that are not under control of ISUP (e.g. User service information, User service information prime, User teleservice information).

Page 7, table 4/Q.763

Modify table 4/Q.763 as follows:

Message type	Reference (Table)	Code
Facility (national use)	45	0011 0011
<u>Loop prevention</u>	<u>28A</u>	<u>0100 0000</u>

Page 8, table 5/Q.763

Modify table 5/Q.763 as follows:

Parameter name	Reference (subclause)	Code
Call transfer number	<u>3.8A</u>	<u>0100 0101</u>
Call transfer reference	<u>3.8B</u>	<u>0100 0011</u>
CCBS parameter	<u>3.12A</u>	<u>0100 1011</u>
Freephone indicators (reserved)	<u>3.23A</u>	0100 0001
Information request indicators (<u>national use</u>)	3.29	0000 1110
<u>Loop prevention indicators</u>	<u>3.30A</u>	<u>0100 0100</u>
MLPP precedence (<u>national use</u>)	3.34	0011 1010
Service activation (national use)	3.49	0011 0011

Page 9, subclause 3.2

Delete "(open)" in the subclause title.

Page 11, subclause 3.5, bit I

Modify as follows:

bit	I:	Interworking indicator (Note 2)
	0	no interworking encountered (<u>No.7 signalling all the way</u>)
	1	interworking encountered