SLOVENSKI STANDARD

SIST EN 300 356-1 V4.2.1:2004

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8][ ]HˇUˇbcˇca fYÿˆYˇnˇ]bhˇY[f]fUb]a]ˇghcf]hj Ua]ˇfˆG8 BˈLˈˈ!ˇG][bUˇ]nUˇWˈˈˈˈUˇýHˈ+ˈfˈGG+ˈLˈˈ!
YˈfˈHˈUˈfˈUnˈ]]ˈWˈUˈ=G8 B!i dcfˈUVb]ý_Yˈ[UˇXYˇUfˈGI DˈLˈnUˇa YXbUˇfcXb]ˇj a Ygb]_ˈˈ!ˈ'%ˇXYˈ.
CgbcjˇbYˇghcf]hjˇYˇQff]dcfc ˈjUˈ=Hˈ !Hˈ E ˈ+*%XcˈE ˈ+*(ˈf%--ˈžgdfˈYa Ybˆ^YbUQ

Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 1: Basic services [ITU-T Recommendations Q.761 to Q.764 (1999) modified]

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European Standard (Telecommunications series)

Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 1: Basic services

[ITU-T Recommendations Q.761 to Q.764 (1999) 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 ISDN User Part (ISUP) version 4 for the international interface, as identified below:

Part 1: **"Basic services [ITU-T Recommendations Q.761 to Q.764 (1999) modified]"**;

Part 2: "ISDN supplementary service [ITU-T Recommendation Q.730 (1999) modified]";

Part 3: "Calling Line Identification Presentation (CLIP) supplementary service [ITU-T Recommendation Q.731, clause 3 (1993) modified]";

Part 4: "Calling Line Identification Restriction (CLIR) supplementary service [ITU-T Recommendation Q.731, clause 4 (1993) modified]";

Part 5: "Connected Line Identification Presentation (COLP) supplementary service [ITU-T Recommendation Q.731, clause 5 (1993) modified]";

Part 6: "Connected Line Identification Restriction (COLR) supplementary service [ITU-T Recommendation Q.731, clause 6 (1993) modified]";

Part 7: "Terminal Portability (TP) supplementary service [ITU-T Recommendation Q.733, clause 4 (1993) modified]";

Part 8: "User-to-User Signalling (UUS) supplementary service [ITU-T Recommendation Q.737, clause 1 (1997) modified]";

Part 9: "Closed User Group (CUG) supplementary service [ITU-T Recommendation Q.735, clause 1 (1993) modified]";

Part 10: "Subaddressing (SUB) supplementary service [ITU-T Recommendation Q.731, clause 8 (1992) modified]";

Part 11: "Malicious Call Identification (MCID) supplementary service [ITU-T Recommendation Q.731, clause 7 (1997) modified]";

Part 12: "Conference Call, add-on (CONF) supplementary service [ITU-T Recommendation Q.734, clause 1 (1993) and implementors guide (1998) modified]";

Part 14: "Explicit Call Transfer (ECT) supplementary service [ITU-T Recommendation Q.732, clause 7 (1996) and implementors guide (1998) modified]";

Part 15: "Diversion supplementary service [ITU-T Recommendation Q.732, clauses 2 to 5 (1999) modified]";

Part 16: "Call Hold (HOLD) supplementary service [ITU-T Recommendation Q.733, clause 2 (1993) modified]";

Part 17: "Call Waiting (CW) supplementary service [ITU-T Recommendation Q.733, clause 1 (1992) modified]";

Part 18:   "Completion of Calls to Busy Subscriber (CCBS) supplementary service [ITU-T Recommendation Q.733, clause 3 (1997) modified]";

Part 19:   "Three-Party (3PTY) supplementary service [ITU-T Recommendation Q.734, clause 2 (1996) and implementors guide (1998) modified]";

Part 20:   "Completion of Calls on No Reply (CCNR) supplementary service [ITU-T Recommendation Q.733, clause 5 (1999) modified]";

Part 21:   "Anonymous Call Rejection (ACR) supplementary service [ITU-T Recommendation Q.731, clause 4 (1993)]";

Part 31:   "Protocol Implementation Conformance Statement (PICS) proforma specification for basic services";

Part 32:   "Test Suite Structure and Test Purposes (TSS&TP) specification for basic services";

Part 33:   "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for basic services";

Part 34:   "Protocol Implementation Conformance Statement (PICS) proforma specification for supplementary services";

Part 35:   "Test Suite Structure and Test Purposes (TSS&TP) specification for supplementary services";

Part 36:   "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for supplementary services".

National transposition dates	
Date of adoption of this EN:	13 July 2001
Date of latest announcement of this EN (doa):	31 October 2001
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	30 April 2002
Date of withdrawal of any conflicting National Standard (dow):	30 April 2002

Endorsement notice

The elements of ITU-T Recommendations Q.761, Q.762, Q.763 and Q.764 (1999) apply, with the following modifications.

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.761 to Q.764

Replace the clauses "Scope", "References" and "Abbreviations" with the following three clauses (Scope, References, and Abbreviations).

Scope

The present document 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).

The present document 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 the present document applies only to the international interconnection, the specification of functions, formats and codes of messages and signals, and actions performed at originating and destination local exchanges are retained.

Formats, codes and procedures marked for national use are included for informative purposes for the international interface specification. If these items so marked are supported within a national network and operator's network, then it is proposed that they shall be supported in this manner.

Items in the present document marked "not required" are not required to be supported.

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

The present document is compatible with ETS 300 121 [2] (ITU-T Recommendation Q.767).

Descriptions of interworking with ITU-T Blue Book (1988) exchanges are informative only.

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.

[1]   ITU-T Recommendation E.164 (1997): "The international public telecommunication numbering plan".

NOTE: This Recommendation is also included but not published in I series under alias number I.331. Replaces former E.163 "Numbering plan". Plus Supplement 1 (1998) "Alternatives for carrier selection and network identification" and Supplement 2 (1998) "Number Portability".

[2]   ETSI 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)".

[3]   ETSI EN 300 356-2: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 2: ISDN supplementary service [ITU-T Recommendation Q.730 (1999) modified]".

[4] ETSI EN 300 356-3: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 3: Calling Line Identification Presentation (CLIP) supplementary service [ITU-T Recommendation Q.731, clause 3 (1993) modified]".

[5] ETSI EN 300 356-4: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 4: Calling Line Identification Restriction (CLIR) supplementary service [ITU-T Recommendation Q.731, clause 4 (1993) modified]".

[6] ETSI EN 300 356-5: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 5: Connected Line Identification Presentation (COLP) supplementary service [ITU-T Recommendation Q.731, clause 5 (1993) modified]".

[7] ETSI EN 300 356-6: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 6: Connected Line Identification Restriction (COLR) supplementary service [ITU-T Recommendation Q.731, clause 6 (1993) modified]".

[8] ETSI EN 300 356-7: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 7: Terminal Portability (TP) supplementary service [ITU-T Recommendation Q.733, clause 4 (1993) modified]".

[9] ETSI EN 300 356-8: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 8: User-to-User Signalling (UUS) supplementary service [ITU-T Recommendation Q.737, clause 1 (1997) modified]".

[10] ETSI EN 300 356-9: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 9: Closed User Group (CUG) supplementary service [ITU-T Recommendation Q.735, clause 1 (1993) modified]".

[11] ETSI EN 300 356-10: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 10: Subaddressing (SUB) supplementary service [ITU-T Recommendation Q.731, clause 8 (1992) modified]".

[12] ETSI EN 300 356-11: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 11: Malicious Call Identification (MCID) supplementary service [ITU-T Recommendation Q.731, clause 7 (1997) modified]".

[13] ETSI EN 300 356-12: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 12: Conference Call, add-on (CONF) supplementary service [ITU-T Recommendation Q.734, clause 1 (1993) and implementors guide (1998) modified]".

[14] ETSI EN 300 356-14: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 14: Explicit Call Transfer (ECT) supplementary service [ITU-T Recommendation Q.732, clause 7 (1996) and implementors guide (1998) modified]".

[15] ETSI EN 300 356-15: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 15: Diversion supplementary service [ITU-T Recommendation Q.732, clauses 2 to 5 (1999) modified]".

[16] ETSI EN 300 356-16: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 16: Call Hold (HOLD) supplementary service [ITU-T Recommendation Q.733, clause 2 (1993) modified]".

[17] ETSI EN 300 356-17: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 17: Call Waiting (CW) supplementary service [ITU-T Recommendation Q.733, clause 1 (1992) modified]".

[18]   ETSI EN 300 356-18: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 18: Completion of Calls to Busy Subscriber (CCBS) supplementary service [ITU-T Recommendation Q.733, clause 3 (1997) modified]".

[19]   ETSI EN 300 356-19: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 19: Three-Party (3PTY) supplementary service [ITU-T Recommendation Q.734, clause 2 (1996) and implementors guide (1998) modified]".

[20]   ETSI EN 300 356-20: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 20: Completion of Calls on No Reply (CCNR) supplementary service [ITU-T Recommendation Q.733, clause 5 (1999) modified]".

[21]   ETSI EN 300 403-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".

[22]   ETSI EN 300 485 (V1.2.3): "Integrated Services Digital Network (ISDN); Definition and usage of cause and location in Digital Subscriber Signalling System No. one (DSS1) and Signalling System No.7 ISDN User Part (ISUP) [ITU-T Recommendation Q.850 (1998), modified]".

[23]   ITU-T Recommendation X.121: "International numbering plan for public data networks".

[24]   ITU-T Recommendation F.69: "The international telex service - Service and operational provisions of telex destination codes and telex network identification codes".

Abbreviations

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

3PTY	Three Party
ACR	Anonymous Call Reject
APM	Application transPort Mechanism
CCBS	Completion of Calls to Busy Subscriber
CCNR	Completion of Calls on No Reply
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
GVNS	Global Virtual Network Service
HOLD	Call Hold
ISDN	Integrated Services Digital Network
ISUP	ISDN User Part
ITCC	International Telephony Charge Card service
MCID	Malicious Call IDentification
MLPP	Multi-Level Precedence and Preemption
MWI	Message Waiting Indication
REV	REVerse charging supplementary service

SUB	SUBaddressing
TP	Terminal Portability
UUS	User-to-User Signalling
VPN	Virtual Private Network

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

Replace references as shown in table 1.

Table 1

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 EN 300 356-2 [3]
ITU-T Recommendation Q.731.3	ITU-T Recommendation Q.731.3 as modified by EN 300 356-3 [4]
ITU-T Recommendation Q.731.4	ITU-T Recommendation Q.731.4 as modified by EN 300 356-4 [5]
ITU-T Recommendation Q.731.5	ITU-T Recommendation Q.731.5 as modified by EN 300 356-5 [6]
ITU-T Recommendation Q.731.6	ITU-T Recommendation Q.731.6 as modified by EN 300 356-6 [7]
ITU-T Recommendation Q.731.7	ITU-T Recommendation Q.731.7 as modified by EN 300 356-11 [12]
ITU-T Recommendation Q.731.8	ITU-T Recommendation Q.731.8 as modified by EN 300 356-10 [11]
ITU-T Recommendation Q.732.2	ITU-T Recommendation Q.732.2 as modified by EN 300 356-15 [15]
ITU-T Recommendation Q.732.3	ITU-T Recommendation Q.732.3 as modified by EN 300 356-15 [15]
ITU-T Recommendation Q.732.4	ITU-T Recommendation Q.732.4 as modified by EN 300 356-15 [15]
ITU-T Recommendation Q.732.5	ITU-T Recommendation Q.732.5 as modified by EN 300 356-15 [15]
ITU-T Recommendation Q.732.7	ITU-T Recommendation Q.732.7 as modified by EN 300 356-14 [14]
ITU-T Recommendation Q.733.1	ITU-T Recommendation Q.733.1 as modified by EN 300 356-17 [17]
ITU-T Recommendation Q.733.2	ITU-T Recommendation Q.733.2 as modified by EN 300 356-16 [16]
ITU-T Recommendation Q.733.3	ITU-T Recommendation Q.733.3 as modified by EN 300 356-18 [18]
ITU-T Recommendation Q.733.4	ITU-T Recommendation Q.733.4 as modified by EN 300 356-7 [8]
ITU-T Recommendation Q.733.5	ITU-T Recommendation Q.733.5 as modified by EN 300 356-20 [20]
ITU-T Recommendation Q.734.1	ITU-T Recommendation Q.734.1 as modified by EN 300 356-12 [13]
ITU-T Recommendation Q.734.2	ITU-T Recommendation Q.734.2 as modified by EN 300 356-19 [19]
ITU-T Recommendation Q.735.1	ITU-T Recommendation Q.735.1 as modified by EN 300 356-9 [10]
ITU-T Recommendation Q.737.1	ITU-T Recommendation Q.737.1 as modified by EN 300 356-8 [9]
ITU-T Recommendation Q.761	ITU-T Recommendation Q.761 as modified by the present document
ITU-T Recommendation Q.762	ITU-T Recommendation Q.762 as modified by the present document
ITU-T Recommendation Q.763	ITU-T Recommendation Q.763 as modified by the present document
ITU-T Recommendation Q.764	ITU-T Recommendation Q.764 as modified by the present document
ITU-T Recommendation Q.767	ETS 300 121 [2]
ITU-T Recommendation Q.850	ITU-T Recommendation Q.850 as modified by EN 300 485 [22]
ITU-T Recommendation Q.931	ITU-T Recommendation Q.931 as modified by EN 300 403-1 [21]

Modifications to ITU-T Recommendation Q.761

Table 1/Q.761

Replace table 1/Q.761 by table 2.

Table 2

Function/service	National use according to ITU-T	International use according to ITU-T	International use according to the present document
Basic call			
Speech/3,1 kHz audio	+	+	+
64 kbit/s unrestricted	+	+	+
Multirate connection types (see note 1)	+	+	+
Nx64 kbit/s connection types	+	+	-
En-bloc address signalling	+	+	+
Overlap address signalling	+	+	+
Transit network selection	+	-	-
Continuity check	+	+	+
Forward transfer	-	+	+
Signalling procedures for connection type allowing fallback capability	+	+	+
Compatibility procedure	+	+	+
Simple segmentation	+	+	+
Tones and announcements	+	+	+
Propagation delay determination procedure	+	+	+
Enhanced echo control signalling procedures	+	+	+
Simple echo control signalling procedures	+	+	+
Automatic repeat attempt	+	+	+
Blocking and unblocking of circuits and circuit groups	+	+	+
Circuit group query	+	-	-
Dual seizure	+	+	+
Transmission alarm handling for digital inter-exchange circuits	+	+	+
Reset of circuits and circuit groups	+	+	+
Receipt of unreasonable signalling information	+	+	+
Access delivery information	+	+	+
Transportation of user teleservice information	+	+	+
Suspend and resume	+	+	+
Temporary trunk blocking	+	-	-
ISDN user part signalling congestion control	+	+	+
Automatic congestion control	+	+	+
Interaction between N-ISDN and INAP	+	+	+
Unequipped circuit identification code	+	-	-
ISDN user part availability control	+	+	+
MTP pause and resume	+	+	+
Overlength messages	+	+	+
Temporary alternative routing (TAR)	+	+	+
Hop counter procedure	+	+	+
Collect call request procedure	+	+	+
Hard-to-Reach	+	+	-
Calling Geodetic location procedure	+	+	+
Carrier Selection Information (see note 2)	+	-	-
Global Call Reference	+	+	+
Key: + support		
- non-support		
NOTE 1: Multirate connection types are 2 × 64, 384, 1 536 and 1 920 kbit/s.		
NOTE 2: This is not part of the ITU-T ISUP 2000 set of recommendations.		

Table 2/Q.761

Replace table 2/Q.761 by table 3.

Table 3

Function/service	National use according to ITU-T	International use according to ITU-T	International use according to the present document
Generic signalling procedures			
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	+	+	+
Service activation	+	+	+
Remote operations service (ROSE) capability	+	-	-
Network specific facilities	+	-	-
Pre-release information transport	+	+	+
Application Transport Mechanism (APM)	+	+	+
Redirection	+	-	-
Pivot Routeing	+	+	-
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	+	+	+
CCNR	+	+	+
MWI	-	-	+
ITCC	+	+	-
GVNS	+	+	(see note)
REV	+	-	-
ACR	-	-	+
Additional functions/services			
VPN	-	-	+
NP	+	-	-
Key: + support			
- non-support			
NOTE: GVNS is not supported as an ETSI service, but the ITU-T parameters can still be used in conjunction with Core INAP CS2.			

Subclause 6.1

Insert the following before the second last sentence:

"It is a network operator's option whether compatibility information is included for network specific messages and parameters".

Appendix A

Appendix A has the status of an informative annex.

Modifications to ITU-T Recommendation Q.762

Clause 2

Item 2.34 (release message):

Delete the sentence ~~"Where the call is to be redirected the message will also carry the redirection number"~~.

Clause 3

Insert the following new items:

3.x IN Service Compatibility: information sent in either direction indicating the IN Services being invoked in a call

3.y Carrier selection information (CSI): information sent in the forward direction to indicate the method (namely call per call or preselection) being used to invoke carrier selection

3.z Global Call Reference (GCR): information sent in the forward direction to uniquely identify a call and correlate call activities associated with that call

Clause 4

Item 4.2 (Address Presentation Restriction Indicator)

Add the following to the last sentence "It may also be used to indicate that the address cannot be ascertained, and in the case of the Calling Party Number only, to indicate that the number may not be presented to a user for reasons other than invocation of the CLIR service ("Presentation Restricted by network").

Insert the following new items:

4.xx IN Service Compatibility indication: information sent in either direction indicating the IN Services being invoked in a call

4.ax APM-user Information: information supplied by the APM-user application and conveyed in the Application Transport Parameter

4.ay Destination Address: address of the node where the APM-user application information shall be delivered

4.az Destination Address length: binary coded information indicating the number of octets in the Destination Address field

4.ay Originating Address: address of the node which has initiated the relationship with the remote APM-user application

4.ax Originating Address length: binary coded information indicating the number of octets in the Originating Address field

4.aa Network ID length indicator: binary coded information indicating the number of octets in the Network ID field

4.bb Network ID: information identifying a network