



# SLOVENSKI STANDARD

## SIST ETS 300 360:1997

01-maj-1997

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**Digitalno omrežje z integriranimi storitvami (ISDN) - Signalizacija št. 7 -  
Specifikacija signalizacijskega vzajemnega delovanja druge različice ISDN-  
uporabniškega dela (ISUP)**

Integrated Services Digital Network (ISDN); Signalling System No.7; Signalling  
interworking specification for ISDN User Part (ISUP) version 2

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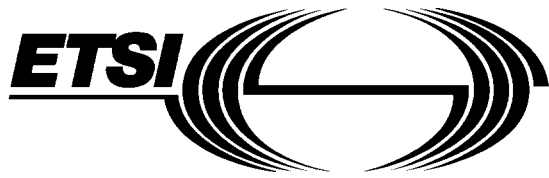
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## Foreword

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 specifies the interworking applicable to Signalling System No.7 Integrated Services Digital Network (ISDN) User Part (ISUP) version 2.

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## 1 Scope

This European Telecommunication Standard (ETS) specifies the interworking between the Signalling System No.7 Integrated Services Digital Network (ISDN) User Part (ISUP) version 2 (as specified in ETS 300 356-1 [2]) and the Signalling Systems No.5 (as specified in CCITT Recommendations Q.140 to Q.164 [7]), R2 (as specified in CCITT Recommendations Q.400 to Q.490 [8]), Telephone User Part (TUP) (as specified in CCITT Recommendations Q.721 to Q.725 [17]), and TUP+ (as specified in CEPT Recommendation T/S 43-02 E [18]).

ISUP version 2 (as specified in ETS 300 356-1 [2]) has been designed to allow peer-to-peer operation to a version 1 exchange (as specified in ETS 300 121 [1]) without requiring any knowledge of that situation. This means that different ISUP versions (like version 1 and version 2) cannot be considered as different signalling systems in an exchange. A specific interworking specification is not required, relevant information is contained in ETS 300 356-1 [2].

This specification is applicable to international transit exchanges, but may be used as a basis for the interworking in international gateway exchanges, because ISUP at the national side may also be based on ISUP version 2.

## 2 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.

- iTeh STANDARD PREVIEW**  
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- [1] 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)".
- [2] ETS 300 356-1 (1995): "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]".
- [3] 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]".
- [4] ETS 300 343 (1994): "Integrated Services Digital Network (ISDN); Signalling System No.7; Signalling interworking specification for ISDN User Part (ISUP) version 1".
- [5] CCITT Recommendation Q.107 (1988): "Standard sending sequence of forward address information".
- [6] ITU-T Recommendation Q.115 (1993): "Control of echo suppressors and echo cancellers by international switching centres".
- [7] CCITT Recommendations Q.140 to Q.164 (1988): "Specifications of Signalling System No.5".
- [8] CCITT Recommendations Q.400 to Q.490 (1988): "Specifications of Signalling System R2".
- [9] ITU-T Recommendation Q.617 (1993): "Interworking of Signalling Systems - Logic procedures for incoming Signalling System No.7".

- [10] ITU-T Recommendation Q.627 (1993): "Interworking of Signalling Systems - Logic procedures for outgoing Signalling System No.7".
- [11] ITU-T Recommendation Q.646 (1993): "Interworking of Signalling Systems - Logic procedures for interworking of Signalling System No.5 to No.7 (ISUP)".
- [12] ITU-T Recommendation Q.667 (1993): "Interworking of Signalling Systems - Logic procedures for interworking of Signalling System No.7 (TUP) to No.7 (ISUP)".
- [13] ITU-T Recommendation Q.686 (1993): "Interworking of Signalling Systems - Logic procedures for interworking of Signalling System R2 to No.7 (ISUP)".
- [14] ITU-T Recommendation Q.690 (1993): "Interworking of Signalling Systems - Logic procedures for interworking of Signalling System No.7 (ISUP) to No.5".
- [15] ITU-T Recommendation Q.692 (1993): "Interworking of Signalling Systems - Logic procedures for interworking of Signalling System No.7 (ISUP) to No.7 (TUP)".
- [16] ITU-T Recommendation Q.695 (1993): "Interworking of Signalling Systems - Logic procedures for interworking of Signalling System No.7 (ISUP) to R2".
- [17] CCITT Recommendations Q.721 to Q.725 (1988): "Specifications of the Signalling System No.7 Telephone User Part (TUP)".
- [18] CEPT Recommendation T/S 43-02 E (1988): "Signalling System Telephone User Part "Plus" (TUP+)".

### 3 Definitions, symbols and abbreviations

#### 3.1 Definitions

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

**backward direction:** Means interworking in opposite direction to the call set-up.

**forward direction:** Means interworking in the call set-up direction.

**"interworking from Signalling System X to Signalling System Y":** Describes the signalling interworking for traffic which is routed (in call set-up direction) from an incoming Signalling System X trunk-group to an outgoing Signalling System Y trunk-group.

#### 3.2 Symbols

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

<> "else", i.e. all other values

#### 3.3 Abbreviations

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

ACB	Access Barred signal
ACM	Address Complete Message
ADC	Address complete, Charge

ADI	Address Incomplete signal
ADN	Address complete, No charge
ADX	Address complete, coin box
AFC	Address complete, subscriber Free, Charge
AFN	Address complete, subscriber Free, No charge
AFX	Address complete, subscriber Free, coin box
ANC	Answer signal, Charge
ANM	Answer Message
ANN	Answer signal, No charge
BC	Bearer Capability
CBK	Clear-Back signal
CCF	Continuity-failure signal
CFL	Call-failure signal
CGB	Circuit Group Blocking message
CGB(H)	Circuit Group Blocking (Hardware) message
CGC	Circuit Group Congestion signal
CLF	Clear-Forward signal
CLIP	Calling Line Identification Presentation
CLIR	Calling Line Identification Restriction
COLP	Connected Line identification Presentation
COLR	Connected Line identification Restriction
CON	Connect message
CUG	Closed User Group
DPN	Digital Path Not provided signal
EUM	Extended Unsuccessful backward set-up Message indication
f1	frequency 1
f2	frequency 2
FRJ	Facility Reject message
GRQ	General Request message
GRS	circuit Group Reset message
GSM	General forward Set-up information Message
HGB	Hardware failure oriented Group Blocking message
HLC	High Layer Compatibility
IAI	Initial Address message with additional Information
IAM	Initial Address Message
IHECD	Incoming Half Echo Control Device
ISDN	Integrated Services Digital Network
ISUP	ISDN User Part
LLC	Low Layer Compatibility
LOS	Line-Out-of-Service signal
MCID	Malicious Call Identification
NNC	National Network Congestion signal
NRM	Network Resource Management message
NRU	Network Resource Unavailable signal
OHECD	Outgoing Half Echo Control Device
PRN	location indicator value "Private network serving the remote user"
REL	Release message
RES	Resume message
RN	location indicator value "Public network serving the remote user"
RSC	Reset Circuit message
SDL	Specification and Description Language
SEC	Switching Equipment Congestion signal
SSB	Subscriber Busy signal
SST	Send Special information Tone signal
ST	end-of-pulsing Signal
SUS	Suspend message
TMR	Transmission Medium Requirement
TMU	Transmission Medium Used
TUP	Telephone User Part
TUP+	Telephone User Part "Plus"

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