



# SLOVENSKI STANDARD SIST EN 302 646-1:2000

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8 [[ ]HJbc`ca fYy`Y`n`]bhY[ f]fUb]a ]g]hcf]h] Ua ]`f]G8 B!`G][ bU]nUW]U`yH`+`!`8 [[ ]HJb] WY] b]hY`Y`\_ca i b]\_UW]g\_]g]ghYa `fZ]hU&Z!`5 d]\_UW]U`fYhY`fUh` ]W]`G8 B! i dcfUVb]y`Y[ UXYU`f]G] D`nUg][ bU]nUW]g\_]j a Ygb]\_`G8 B!`Uj bc`\_cdYbg\_c a cV]bc`ca fYy`Y`fD@AB!`%`XY.`GdYWZ]\_UW]U`dfch\_c`Uf] GA`\$-`%`fUh`] ]WU+`\$`&L

Integrated Services Digital Network (ISDN); Signalling System No.7; Digital cellular telecommunications system (Phase 2+); Application of ISDN User Part (ISUP) version 3 for the ISDN-Public Land Mobile Network (PLMN) signalling interface; Part 1: Protocol specification (GSM 09.14 version 7.0.2 Release 1998)

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33.080	Digitalno omrežje z integriranimi storitvami (ISDN)	Integrated Services Digital Network (ISDN)
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*European Standard (Telecommunications series)*

**Integrated Services Digital Network (ISDN);  
Signalling System No.7;  
Digital cellular telecommunications system (Phase 2+);  
Application of ISDN User Part (ISUP) version 3 for the  
ISDN-Public Land Mobile Network (PLMN) signalling interface;  
Part 1: Protocol specification  
(GSM 09.14 version 7.0.2 Release 1998)**

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## Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Signalling Protocol and Switching (SPS).

The present document is part 1 of a multi-part deliverable covering the Signalling System No.7; Digital cellular telecommunications system (Phase 2); Application of ISDN User Part (ISUP) version 3 for the ISDN-Public Land Mobile Network (PLMN) signalling interface, as identified below:

**Part 1: "Protocol specification";**

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

Part 3: "Test Suite Structure and Test Purposes (TSS&TP)";

Part 4: "Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification".

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# 1 Scope

The present document specifies the third version of the Integrated Services Digital Network (ISDN) - Global System for Mobile communications (GSM) Public Land Mobile Network (PLMN) signalling interface. The present document is applicable to the interconnection of PLMN and ISDN.

The ISUP interface defined is the trunk signalling interface between the PLMN and the ISDN. It is assumed that the interface between PLMN and ISDN can occur at any point in a national network, provided that the exchange in the national network has this ISDN-PLMN signalling interface.

This signalling interface is based on ISUP version 3 (as given in EN 300 356-1 [1] to EN 300 356-20 [19]). The functionality in the GSM system is based on GSM Phase 2+ Release 1998.

NOTE 1: Support of new functionality in the GSM system applicable for this interface may be included in subsequent versions of the present document or may be published as a new EN.

## Connection types:

The following ISUP version 3 connection types can be supported:

- speech;
- 3,1 kHz audio;
- 64 kbit/s unrestricted;
- 64 kbit/s unrestricted preferred;
- $2 \times 64$  kbit/s unrestricted;
- 384 kbit/s unrestricted;
- 1 536 kbit/s unrestricted;
- 1 920 kbit/s unrestricted.

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NOTE 2:  $2 \times 64$  kbit/s, 384 kbit/s, 1 536 kbit/s, 1 920 kbit/s unrestricted and 64 kbit/s unrestricted preferred connection types are not supported by the GSM access, however the connection types may be used in order to support other access methods via the GSM network.

## Supplementary services:

The following ISUP version 3 supplementary services can be supported:

- Calling Line Identification Presentation (CLIP)/  
Calling Line Identification Restriction (CLIR);
- Connected Line Identification Presentation (COLP)/  
Connected Line Identification Restriction (COLR);
- Terminal portability (TP);
- User-to-User Signalling (UUS);
- Closed User Group (CUG);
- Subaddressing (SUB);
- Malicious Call Identification (MCID);
- Conference call, add-on (CONF);
- Explicit Call Transfer (ECT);



- Call Forwarding Unconditional (CFU)/  
Call Forwarding on Busy (CFB)/  
Call Forwarding on No Reply (CFNR);
- Call Deflection (CD);
- Call Hold (HOLD);
- Call Waiting (CW);
- Completion of Calls to Busy Subscriber (CCBS);
- Completion of Calls on No Reply (CCNR);
- Three party (3PTY).

The support of supplementary services on this interface does not necessarily imply that the supplementary services are supported in one or the other of the networks interconnected.

The Direct Dialling In (DDI) supplementary service and Multiple Subscriber Number (MSN) supplementary service have no impact on this interface.

This interface can be used within national networks, however messages and parameters that are marked for national use in EN 300 356-1 [1] are not described in the present document.

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## 2 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, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.
- For this Release 1998 document, references to GSM documents are for Release 1998 versions (version 7.x.y).

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- SIST EN 302 646-1:2000**
- [1] ETSI EN 300 356-1 (V3.2): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 1: Basic services [ITU-T Recommendations Q.761 to Q.764 (1997), modified]".
- [2] ETSI EN 300 356-2 (V3.2): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 2: ISDN supplementary services [ITU-T Recommendation Q.730 (1997), modified]".
- [3] ETSI EN 300 356-3 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 3: Calling Line Identification Presentation (CLIP) supplementary service [ITU-T Recommendation Q.731, clause 3 (1993), modified]".
- [4] ETSI EN 300 356-4 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 4: Calling Line Identification Restriction (CLIR) supplementary service [ITU-T Recommendation Q.731, clause 4 (1993), modified]".
- [5] ETSI EN 300 356-5 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 5: Connected Line Identification Presentation (COLP) supplementary service [ITU-T Recommendation Q.731, clause 5 (1993), modified]".

- [6] ETSI EN 300 356-6 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 6: Connected Line Identification Restriction (COLR) supplementary service [ITU-T Recommendation Q.731, clause 6 (1993), modified]".
- [7] ETSI EN 300 356-7 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 7: Terminal Portability (TP) supplementary service [ITU-T Recommendation Q.733, clause 4 (1993), modified]".
- [8] ETSI EN 300 356-8 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 8: User-to-User Signalling (UUS) supplementary service [ITU-T Recommendation Q.737, clause 1 (1997), modified]".
- [9] ETSI EN 300 356-9 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 9: Closed User Group (CUG) supplementary service [ITU-T Recommendation Q.735, clause 1 (1993), modified]".
- [10] ETSI EN 300 356-10 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 10: Subaddressing (SUB) supplementary service [ITU-T Recommendation Q.731, clause 8 (1992), modified]".
- [11] ETSI EN 300 356-11 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 11: Malicious Call Identification (MCID) supplementary service [ITU-T Recommendation Q.731, clause 7 (1997), modified]".
- [12] ETSI EN 300 356-12 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 12: Conference call, add-on (CONF) supplementary service [ITU-T Recommendation Q.734, clause 1 (1993), modified]".
- [13] ETSI EN 300 356-14 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 14: Explicit Call Transfer (ECT) supplementary service [ITU-T Recommendation Q.732, clause 7 (1996), modified]".
- [14] ETSI EN 300 356-15 (V3.2): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 15: Diversion supplementary services [ITU-T Recommendation Q.732, clauses 2 to 5 (1997), modified]".
- [15] ETSI EN 300 356-16 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 16: Call Hold (HOLD) supplementary service [ITU-T Recommendation Q.733, clause 2 (1993), modified]".
- [16] ETSI EN 300 356-17 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 17: Call Waiting (CW) supplementary service [ITU-T Recommendation Q.733, clause 1 (1992), modified]".
- [17] ETSI EN 300 356-18 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 18: Completion of Calls to Busy Subscriber (CCBS) supplementary service [ITU-T Recommendation Q.733, clause 3 (1997), modified]".
- [18] ETSI EN 300 356-19 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 19: Three-Party (3PTY) supplementary service [ITU-T Recommendation Q.734, clause 2 (1996), modified]".
- [19] ETSI EN 300 356-20 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 20: Completion of Calls on No Reply (CCNR) supplementary service".
- [20] ITU-T Recommendation Q.763 (1993): "Signalling System No. 7; ISDN user part formats and codes".

- [21] GSM 03.50: "Digital cellular telecommunications system (Phase 2+); Transmission planning aspects of the speech service in the GSM Public Land Mobile Network (PLMN) system".
- [22] GSM 03.81: "Digital cellular telecommunications system (Phase 2); Line identification supplementary services; Stage 2 (GSM 03.81 version 5.2.0 Release 1996)".
- [23] GSM 03.84: "Digital cellular telecommunications system; Multi Party (MPTY) supplementary services; Stage 2".
- [24] GSM 03.86: "3rd Generation Partnership Project; Technical Specification Group ; Global system for Mobile Communication (GSM) (Phase 2+); Advice of Charge (AoC) supplementary services - Stage 2 (GSM 03.86 Release 1998)".
- [25] GSM 03.88: "Digital cellular telecommunications system (Phase 2+); Call Barring (CB) supplementary services; Stage 2".
- [26] GSM 03.90: "Digital cellular telecommunications system; Unstructured Supplementary Service Data (USSD) - Stage 2".
- [27] GSM 03.93: "3rd Generation Partnership Project; Technical Specification Group ; Global system for Mobile Communication (GSM) (Phase 2+); Technical realization of Completion of Calls to Busy Subscriber (CCBS); Stage 2 (GSM 03.93 Release 1998)".
- [28] GSM 09.04: "Digital cellular telecommunications system; Interworking between the Public Land Mobile Network (PLMN) and the Circuit Switched Public Data Network (CSPDN)".
- [29] GSM 09.07: "Digital cellular telecommunications system (Phase 2+); General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN)".
- [30] GSM 09.02: "Digital cellular telecommunications system (Phase 2+); Mobile Application Part (MAP) specification".
- [31] ETSI ETS 300 008: "Integrated Services Digital Network (ISDN); Signalling System No.7; Message Transfer Part (MTP) to support international interconnection".
- [32] ITU-T Recommendation E.164 (1997): "The international public telecommunication numbering plan".
- [33] GSM 03.96: "3rd Generation Partnership Project; Technical Specification Group ; Global system for Mobile Communication (GSM) (Phase 2+); Name identification supplementary services; Stage 2 (GSM 03.96 Release 1998)".
- [34] GSM 02.97: "Digital cellular telecommunications system (Phase 2+); Multiple Subscriber Profile (MSP) Phase 1; Service description, Stage 1 (GSM 02.97 version 5.2.0)".

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### 3 Abbreviations

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

3PTY	Three-Party
ACM	Address Complete Message
AoC	Advice of Charge
CB	Call Barring
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
CFNRc	Call Forwarding on Mobile Subscriber Not Reachable
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 calling
CPG	Call Progress message
CUG	Closed User Group
CW	Call Waiting
DDI	Direct Dialling In
ECT	Explicit Call Transfer
GMSC	Gateway MSC
GSM	Global System for Mobile communications
HLC	High Layer Compatibility
HLR	Home Location Register
HOLD	Call Hold
HPLMN	Home Public Land Mobile Network
IAM	Initial Address Message
ISDN	Integrated Services Digital Network
ISUP	ISDN User Part
MAP	Mobile Application Part
MCID	Malicious Call Identification
MPTY	MultiParty
MS	Mobile Station
MSC	Mobile-service Switching Centre
MSISDN	Mobile Station ISDN number
MSN	Multiple Subscriber Number
MSRN	Mobile Station Roaming Number
MTP	Message Transfer Part
NI	Network Indicator
PLMN	Public Land Mobile Network
SUB	Subaddressing
TP	Terminal Portability
USSD	Unstructured Supplementary Service Data
UUS	User-to-User Signalling
VLR	Visitor Location Register
VMSC	Visited MSC

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## 4 General principles

The gateway exchanges in both networks behave like international incoming or outgoing gateways in the relevant cases as described in EN 300 356-1 [1] to EN 300 356-20 [19], with the exceptions indicated within the present document.

## 5 Exceptions and clarifications for basic call

### 5.1 Formats and codes

The formats and codes specified in EN 300 356-1 [1] with the exceptions and clarifications described in table D.1.

### 5.2 Basic call signalling procedures

The basic call procedures of EN 300 356-1 [1] apply with the following exceptions and clarifications.

#### 5.2.1 Signalling procedures for connection type allowing fallback

The gateway in the preceding network (PLMN or ISDN) shall perform fallback according to the procedures defined in EN 300 356-1 [1] when the succeeding network does not support fallback.