



SLOVENSKI STANDARD SIST EN 301 070-1:2000

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8 [[]HJbc`ca fYy`Y`n`]bhY[f]fUb]a]`gkcf]hj Ua]`fG8 Bk!`G][bU]nUW]U`yh`+`!
A YXgYVc`bc`j`d`]j Ub`Y`a YX`G8 B!i dcfUVb]y`_ja `XY`ca `fYh`Y`fU`h`]]W`]b
Ud`] _UW]g`_ja `XY`ca]bhY`][YbhY[Uca fYy`U`!`%`XY.`GdYW]Z`_UW]Udfcfc`_c`U

Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 interactions with the Intelligent Network Application Part (INAP); Part 1: Protocol specification [ITU-T Recommendation Q.1600 (1997), modified]

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ICS:

33.080	Digitalno omrežje z integriranimi storitvami (ISDN)	Integrated Services Digital Network (ISDN)
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EN 301 070-1 V1.2.2 (1998-09)

European Standard (Telecommunications series)

**Integrated Services Digital Network (ISDN);
Signalling System No.7;
ISDN User Part (ISUP) version 3 interactions with the
Intelligent Network Application Part (INAP);
Part 1: Protocol specification**

[ITU-T Recommendation Q.1600 (1997), modified]

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Reference

DEN/SPS-01044-1 (9wo90ipc.PDF)

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Foreword

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

The present document is part 1 of a multi-part EN covering the interactions between ISDN User Part (ISUP) version 3 and Intelligent Network Application Part (INAP) in the scope of IN Capability Set 1 (CS1), as identified below:

- Part 1:** "Protocol specification [ITU-T Recommendation Q.1600 (1997), modified]";
- Part 2: "Protocol Implementation Conformance Statement (PICS) proforma specification";
- Part 3: "Test Suite Structure and Test Purposes (TSS&TP) specification";
- Part 4: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification".

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National transposition dates

Date of adoption of this EN:	18 September 1998
Date of latest announcement of this EN (doa):	31 December 1998
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	30 June 1999
Date of withdrawal of any conflicting National Standard (dow):	30 June 1999

Endorsement notice

The elements of ITU-T Recommendation Q.1600 (1997) 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.

Modifications to ITU-T Recommendation Q.1600

Insert the following clause (Scope) at the start of the document:

1 Scope

The present document specifies the interaction between the ISUP and INAP.

The interaction between other signalling systems and INAP can be found by consulting the relevant interworking recommendation to the ISUP in combination with the ISUP/INAP interaction recommendation.

The present document specifies procedures in order to provide interaction between ISUP and INAP, i.e. to support IN services in an ISDN environment. In addition new protocol elements for the ISUP are defined in order to satisfy IN specific requirements. Based on the protocol inherent compatibility mechanism a stepwise upgrade of the ISUP functionality is possible. However, the new function is only available for an IN call, if supported in any of the affected exchanges.

The present document only considers the case where the SSP is located at a transit level. As a consequence this could lead to limitations for ISDN supplementary services.

The present document does not specify enhancements to the DSS1 protocol, which may be needed due to additional ISUP functions or IN requirements, respectively.

The main subjects of this interaction specification are the following:

- description of specific call control functions for IN calls;
- impacts on the ISUP basic call and the ISDN supplementary services for IN calls;
- enhancement of the ISUP protocol due to IN specific requirements.

0.2 references

Replace the clause "0.2 references" with the following clause (References):

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, subsequent revisions do apply.
- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

[1] ETR 318 (1996): "Intelligent Network (IN); IN Capability Set 1 (CS1); Distributed functional plane".

[2] EN 300 356-1: "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]".

[3] EN 300 356-3: "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] EN 300 356-4: "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] EN 300 356-5: "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] EN 300 356-6: "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] EN 300 356-10: "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]".
- [8] EN 300 356-11: "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]".
- [9] EN 300 356-14: "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]".
- [10] EN 300 356-15: "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]".
- [11] ETS 300 374-1 (1994): "Intelligent Network (IN); Intelligent Network Capability Set 1 (CS1); Core Intelligent Network Application Protocol (INAP); Part 1: Protocol specification".
- [12] 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]".

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Throughout the text of ITU-T Recommendation Q.1600

Replace references as shown below:

Reference in ITU-T Recommendation Q.1600	Modified reference
ITU-T Recommendation Q.1214	ITU-T Recommendation Q.1214 as modified by ETR 318 [1]
ITU-T Recommendation Q.1218	ETS 300 374-1 [11]
ITU-T Recommendation Q.731	ITU-T Recommendation Q.731 as modified by EN 300 356, parts 3, 4, 5, 6, 10 and 11 [3 to 8]
ITU-T Recommendation Q.732	ITU-T Recommendation Q.732 as modified by EN 300 356, parts 14 and 15 [9 and 10]
ITU-T Recommendation Q.763	ITU-T Recommendation Q.763 as modified by EN 300 356-1 [2]
ITU-T Recommendation Q.764	ITU-T Recommendation Q.764 as modified by EN 300 356-1 [2]
ITU-T Recommendation Q.931	ITU-T Recommendation Q.931 as modified by EN 300 403-1 [12]

Table 2

Amend the table as shown:

<u>Operation</u>	<u>Influence on ISUP call handling</u>	<u>Reference</u>
⋮	⋮	⋮
<u>AnalyseInformation</u>	For further study (Note)	
⋮	⋮	⋮
<u>CancelStatusReportRequest</u>	For further study (Note)	
⋮	⋮	⋮
<u>HoldCallInNetwork</u>	For further study (Note)	
⋮	⋮	⋮
<u>RequestCurrentStatusReport</u>	For further study (Note)	
<u>RequestEveryStatusChangeReport</u>	For further study (Note)	
<u>RequestFirstStatusMatchReport</u>	For further study (Note)	
⋮	⋮	⋮
<u>SelectFacility</u>	For further study (Note)	
<u>SelectRoute</u>	For further study (Note)	
⋮	⋮	⋮

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Subclause 7.2.6, Correlation id parameter

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Replace references to "[5], §2.1.3 Definition of Common Data Types" and "[5], §2.1.3 Definition of range constants" with "[11], §6.3".

Subclause 7.2.8, SCF id parameter

Replace references to "[5], §2.1.3 Definition of Common Data Types" and "[5], §2.1.3 Definition of range constants" with "[11], §6.3".

Subclause 9.1.1, Successful call set-up

Modify the first sentence as follows:

If an IAM is received in a SSP and the call is recognized as IN call, i.e. by detecting a DP as TDP-R (see subclause 9.3 Detection Point processing), an InitialDP operation ~~or a DP-specific operation for a TDP-R~~ is sent from the SSF to the SCF. If the IAM had been segmented the remainder of the call set-up information is awaited (see subclause 9.1.1.7 Simple segmentation). The mapping of parameters is shown in the table 4.

Table 4

Amend the table as shown:

<u>ISUP message</u> <u>IAM (Note 1)</u>	<u>INAP operation</u> <u>InitialDP</u>
⋮	⋮
<u>Calling party subaddress IE contained in access transport</u>	<u>callingPartySubaddress</u>
⋮	⋮

Table 5

Amend the table as shown:

<u>INAP operation</u> <u>Connect (Note 1)</u>	<u>ISUP message</u> <u>IAM</u>
⋮	⋮
<u>callingPartyNumber</u>	<i>(Note 4) (see also annex ZA)</i>
⋮	⋮
<u>isdnAccessRelatedInformation</u>	<i>Not mapped. (Note 5)</i>
⋮	⋮

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Table 5, note 3

Replace reference to "[5], §3.3.16" with "[11], §9.11".

Table 5, note 5

Delete the entire note.

Subclause 9.1.2, Normal call release

Replace reference to "[5], §3.1.1.5" with "[11], §7.1.5".

Subclause 9.1.3, Suspend, resume

Modify the first paragraph as follows:

Upon receipt of a SUS message with the indication "network initiated" the timer T_{SUS} is started to ensure that a RES message with the indication "network initiated" or a REL message is received. In the case that at least one DP monitor mode is set to 'interrupted', the received SUS message is not passed on. If the timer T_{SUS} expires, the procedures described in [10] Q.764/§ 2.4.3 apply. The value of timer T_{SUS} depends on the time limits received in serviceInteractionIndicators parameter.