



EUROPEAN
TELECOMMUNICATION
STANDARD

ETS 300 356-8

February 1995

Source: ETSI TC-SPS

Reference: DE/SPS-6001.13

ICS: 33.080

Key words: ISDN, SS7, ISUP, supplementary service

**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]

ETSI

European Telecommunications Standards Institute

ETSI Secretariat

Postal address: F-06921 Sophia Antipolis CEDEX - FRANCE

Office address: 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE

X.400: c=fr, a=atlas, p=etsi, s=secretariat - **Internet:** secretariat@etsi.fr

Tel.: +33 92 94 42 00 - Fax: +33 93 65 47 16

Copyright Notification: No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 1995. All rights reserved.

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 8 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.

In accordance with CCITT Recommendation I.130, the following three level structure is used to describe the supplementary telecommunication services as provided by European public telecommunications operators under the pan-European Integrated Services Digital Network (ISDN):

- Stage 1: is an overall service description, from the user's stand-point;
- Stage 2: identifies the functional capabilities and information flows needed to support the service described in stage 1; and
- Stage 3: defines the signalling system protocols and switching functions needed to implement the service described in stage 1.

This ETS details the stage three aspects (signalling system protocols and switching functions) needed to support the User-to-User Signalling (UUS) supplementary service. The stage 1 and stage 2 aspects are detailed in ETS 300 284 and ETS 300 285, respectively.

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 Recommendation Q.737, clause 1 (1993), was approved by ETSI as an ETS with agreed modifications as given below.

Page 1

Insert the following two clauses (scope and normative references) at the start of clause 1:

Scope

This eighth part of ETS 300 356 specifies the stage three of the User-to-User Signalling (UUS) supplementary service 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). Stage three identifies the protocol procedures and switching functions needed to support a telecommunication service (see CCITT Recommendation I.130 [1]).

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.

This ETS does not specify the additional protocol requirements for the national signalling interface.

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.

The UUS supplementary service allows an ISDN user to send/receive a limited amount of information to/from another ISDN user over the signalling channel in association with a call to the other ISDN user.

The UUS supplementary service is applicable to all telecommunication services.

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

- [1] CCITT Recommendation I.130 (1988): "Method for the characterisation of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [2] 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] ETS 300 284: "Integrated Services Digital Network (ISDN); User-to-User Signalling (UUS) supplementary service; Service description".
- [4] ETS 300 285: "Integrated Services Digital Network (ISDN); User-to-User Signalling (UUS) supplementary service; Functional capabilities and information flows".

- [5] ETS 300 286-1: "Integrated Services Digital Network (ISDN); User-to-User Signalling (UUS) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [6] 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]".
- [7] 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".
- [8] 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".
- [9] 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]".

Throughout the text of ITU-T Recommendation Q.737, clause 1

Replace references as shown below.

Reference in ITU-T Recommendation Q.737, clause 1	Modified reference
CCITT Recommendation I.257.1	ETS 300 284 [3]
ITU-T Recommendation Q.87, clause 1	ETS 300 285 [4]
ITU-T Recommendation Q.730	ITU-T Recommendation Q.730 as modified by ETS 300 356-2 [7]
ITU-T Recommendation Q.761	ITU-T Recommendation Q.761 as modified by ETS 300 356-1 [6]
ITU-T Recommendation Q.762	ITU-T Recommendation Q.762 as modified by ETS 300 356-1 [6]
ITU-T Recommendation Q.763	ITU-T Recommendation Q.763 as modified by ETS 300 356-1 [6]
ITU-T Recommendation Q.764	ITU-T Recommendation Q.764 as modified by ETS 300 356-1 [6]
ITU-T Recommendation Q.767	ETS 300 121 [2]
ITU-T Recommendation Q.931	ITU-T Recommendation Q.931 as modified by ETS 300 403-1 [9]
ITU-T Recommendation Q.957, clause 1	ETS 300 286-1 [5]

Page 4, subclause 1.1.6.2

Replace the text by:

No impact on ISUP.

Page 5, subclause 1.1.6.10

Replace the complete text of subclause 1.1.6.10 and all of its subclauses by:

No impact on ISUP.

Page 6, subclause 1.1.6.19

Replace the text by:

| Interactions are described in ETS 300 356-18 [8].

Page 7, subclause 1.1.7, table 1-1/Q.737

Modify table 1-1/Q.737 as follows:

Interworking network	Implicit request	Non-essential request	Essential request
Non-SS No.7 network	ACM; interworking ind.: "interw. encountered"	ACM; UUI ind.: "service 1 not provided"	REL #29 + diagnostics (Note 1)
SS No.7 network, not ISUP or TUP+	ACM; ISUP ind.: "ISUP not all the way"	ACM; UUI ind.: "service 1 not provided"	REL #29 + diagnostics (Note 1)
SS No.7 network not supporting the service	ACM or CON; UUI ind.: "UUI discarded" (Note 2)	ACM or CON; UUI ind.: "service 1 not provided" (Note 3)	REL #29 + diagnostics (Notes 1 and 3)
<u>SS No.7 TUP+ network not supporting the service</u>	<u>ACM or CON; UUI ind.:</u> <u>"UUI discarded"</u> (Note 2)	<u>ACM or CON; UUI ind.:</u> <u>"service 1 not provided"</u>	<u>REL #29 + diagnostics</u> (Note 1)
NOTE 1:	The diagnostics field contains the user-to-user indicators parameter name and length .		
NOTE 2:	If the UUI in the IAM has been discarded, the user-to-user indicators parameter contains "UUI discarded by the network". If it is detected that the originating exchange has performed segmentation by sending UUI in the additional segment, and a subsequent exchange knows that the segmentation procedure is not supported by the succeeding network, the latter exchange will code the user-to-user indicators parameter "UUI discarded by the network". This knowledge may be obtained by reception of a confusion message indicating that the segmentation message has been discarded.		
NOTE 3:	A transit or international gateway exchange may have to generate service rejection in case a confusion message is received indicating that the user-to-user indicators requesting the service are not supported by the succeeding network. Two ISDN networks that interwork may have to retain knowledge of the service request until it is clear whether both can support the service.		

Page 13, subclause 1.2.6.2

Replace the text by:

| No impact on ISUP.

Page 13, subclause 1.2.6.10

Replace the complete text of subclause 1.2.6.10 and all of its subclauses by:

| No impact on ISUP.

Page 14, subclause 1.2.6.19

Replace the text by:

| Interactions are described in ETS 300 356-18 [8].

Page 15, subclause 1.2.7, table 1-2/Q.737, note 1

Modify note 1 of Table 1-2/Q.737 as follows:

NOTE 1: The diagnostics field contains the user-to-user indicators parameter name and length.

Page 21, subclause 1.3.5.2.5.2.2

Add the following at the end of the subclause:

The cause indicators parameter in the facility reject message is supplied as follows:

- a) if the called user does not respond to the service request, then cause value #69 "requested facility not implemented" without diagnostics is used;
- b) in other situations, e.g. called user rejects the service, network or called user cannot support the service, then cause value #29 "facility rejected" without diagnostics is used.

Page 22, subclause 1.3.6.2

Replace the text by:

No impact on ISUP.

Page 22, subclause 1.3.6.10

Replace the complete text of subclause 1.3.6.10 and all of its subclauses by:

No impact on ISUP.

Page 24, subclause 1.3.6.18

Replace the text by:

If a facility request message containing the facility indicator parameter indicating "user-to-user service" is received while a call is suspended, then a facility reject message is returned with the indication "service 3 not provided" in the user-to-user indicators parameter.

User-to-user messages received while a call is suspended are discarded.

Page 24, subclause 1.3.6.19

Replace the text by:

Interactions are described in ETS 300 356-18 [8].

Page 24, subclause 1.3.7.1, table 1-3/Q.737, note 1

Modify note 1 of table 1-3/Q.737 as follows:

NOTE 1: The diagnostics field contains the user-to-user indicators parameter name and length.

History

Document history	
February 1995	First Edition
January 1996	Converted into Adobe Acrobat Portable Document Format (PDF)