ETSI

EUROPEAN
TELECOMMUNICATION
STANDARD

ETS 300 356-2

February 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

[ITU-T Recommendation Q.730 (1993), modified]

ETSI

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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 is part 2 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    NOTE: Part 13 has been withdrawn.

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.730 (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):

Scope

This second part of ETS 300 356 specifies procedures that are common to multiple 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). This ETS identifies the protocol procedures and switching functions needed to support telecommunication services (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.
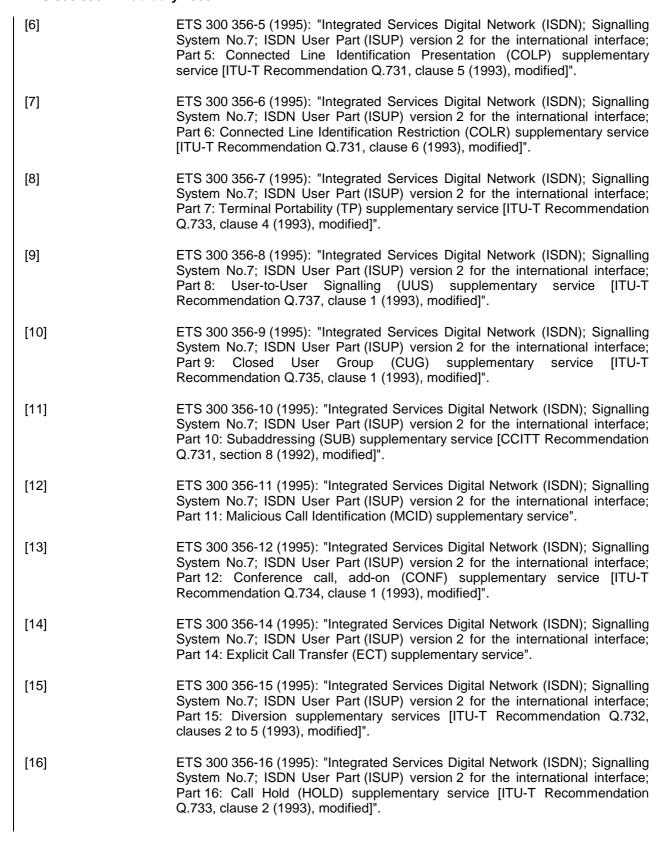
> NOTE: In the case where a national signalling system behaves differently, the international gateway exchange is to support both the concerned national and the international network and the services and equipment supported by both the concerned national and the international network.

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 300 356-1 (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]".

[4]   ETS 300 356-3 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 3: Calling Line Identification Presentation (CLIP) supplementary service [ITU-T Recommendation Q.731, clause 3 (1993), modified]".

[5]   ETS 300 356-4 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 4: Calling Line Identification Restriction (CLIR) supplementary service [ITU-T Recommendation Q.731, clause 4 (1993), modified]".

[6]   ETS 300 356-5 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 5: Connected Line Identification Presentation (COLP) supplementary service [ITU-T Recommendation Q.731, clause 5 (1993), modified]".

[7]   ETS 300 356-6 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 6: Connected Line Identification Restriction (COLR) supplementary service [ITU-T Recommendation Q.731, clause 6 (1993), modified]".

[8]   ETS 300 356-7 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 7: Terminal Portability (TP) supplementary service [ITU-T Recommendation Q.733, clause 4 (1993), modified]".

[9]   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]".

[10]   ETS 300 356-9 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 9: Closed User Group (CUG) supplementary service [ITU-T Recommendation Q.735, clause 1 (1993), modified]".

[11]   ETS 300 356-10 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 10: Subaddressing (SUB) supplementary service [CCITT Recommendation Q.731, section 8 (1992), modified]".

[12]   ETS 300 356-11 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 11: Malicious Call Identification (MCID) supplementary service".

[13]   ETS 300 356-12 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 12: Conference call, add-on (CONF) supplementary service [ITU-T Recommendation Q.734, clause 1 (1993), modified]".

[14]   ETS 300 356-14 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 14: Explicit Call Transfer (ECT) supplementary service".

[15]   ETS 300 356-15 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 15: Diversion supplementary services [ITU-T Recommendation Q.732, clauses 2 to 5 (1993), modified]".

[16]   ETS 300 356-16 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 16: Call Hold (HOLD) supplementary service [ITU-T Recommendation Q.733, clause 2 (1993), modified]".

[17]   ETS 300 356-17 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 17: Call Waiting (CW) supplementary service [CCITT Recommendation Q.733, section 1 (1992), modified]".

[18]   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".

[19]   ETS 300 356-19 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 19: Three party (3PTY) supplementary service [ITU-T Recommendation Q.734, clause 2 (1993), modified]".

Throughout the text of ITU-T Recommendation Q.730

Replace references as shown below.

Reference in ITU-T Recommendation Q.730	Modified reference
ITU-T Recommendation Q.731.3	ITU-T Recommendation Q.731.3 as modified by ETS 300 356-3 [4]
ITU-T Recommendation Q.731.4	ITU-T Recommendation Q.731.4 as modified by ETS 300 356-4 [5]
ITU-T Recommendation Q.731.5	ITU-T Recommendation Q.731.5 as modified by ETS 300 356-5 [6]
ITU-T Recommendation Q.731.6	ITU-T Recommendation Q.731.6 as modified by ETS 300 356-6 [7]
ITU-T Recommendation Q.731.7	ETS 300 356-11 [12]
ITU-T Recommendation Q.731.8	ITU-T Recommendation Q.731.8 as modified by ETS 300 356-10 [11]
ITU-T Recommendation Q.732.2	ITU-T Recommendation Q.732.2 as modified by ETS 300 356-15 [15]
ITU-T Recommendation Q.732.3	ITU-T Recommendation Q.732.3 as modified by ETS 300 356-15 [15]
ITU-T Recommendation Q.732.4	ITU-T Recommendation Q.732.4 as modified by ETS 300 356-15 [15]
ITU-T Recommendation Q.732.5	ITU-T Recommendation Q.732.5 as modified by ETS 300 356-15 [15]
ITU-T Recommendation Q.732.7	ETS 300 356-14 [14]
ITU-T Recommendation Q.733.1	ITU-T Recommendation Q.733.1 as modified by ETS 300 356-17 [17]
ITU-T Recommendation Q.733.2	ITU-T Recommendation Q.733.2 as modified by ETS 300 356-16 [16]
ITU-T Recommendation Q.733.3	ETS 300 356-18 [18]
ITU-T Recommendation Q.733.4	ITU-T Recommendation Q.733.4 as modified by ETS 300 356-7 [8]
ITU-T Recommendation Q.734.1	ITU-T Recommendation Q.734.1 as modified by ETS 300 356-12 [13]
ITU-T Recommendation Q.734.2	ITU-T Recommendation Q.734.2 as modified by ETS 300 356-19 [19]
ITU-T Recommendation Q.735.1	ITU-T Recommendation Q.735.1 as modified by ETS 300 356-9 [10]
ITU-T Recommendation Q.737.1	ITU-T Recommendation Q.737.1 as modified by ETS 300 356-8 [9]
ITU-T Recommendation Q.761	ITU-T Recommendation Q.761 as modified by ETS 300 356-1 [3]
ITU-T Recommendation Q.762	ITU-T Recommendation Q.762 as modified by ETS 300 356-1 [3]
ITU-T Recommendation Q.763	ITU-T Recommendation Q.763 as modified by ETS 300 356-1 [3]
ITU-T Recommendation Q.764	ITU-T Recommendation Q.764 as modified by ETS 300 356-1 [3]
ITU-T Recommendation Q.767	ETS 300 121 [2]

Page 2, subclause 1.3.1, subclause title

Delete "(national use)".

Page 2, subclause 1.3.2, first paragraph

Delete the third sentence "Whether or not (...) for further study".

Page 5, subclause 1.3.5, first paragraph

Delete the last sentence "Whether or not (...) for further study".

Page 18, subclause 1.5

Add the following:

The agreed format for an ETS covering a supplementary service (and not endorsing an ITU-T Recommendation) is indicated below:

Foreword
1   Scope
2   Normative references
3   Definitions
4   Symbols and abbreviations
5   Description
6   Operational requirements
       6.1   Provision and withdrawal
       6.2   Requirements on the originating network side
       6.3   Requirements on the destination network side
7   Coding requirements
8   State definitions
9   Signalling procedures
       9.1   Activation, deactivation and registration
       9.2   Actions at the originating local exchange
                9.2.1   Normal operation
                9.2.2   Exceptional procedures
       9.3   Actions at a transit exchange
                9.3.1   Normal operation
                9.3.2   Exceptional procedures
       9.4   Actions at the outgoing international gateway exchange
                9.4.1   Normal operation
                9.4.2   Exceptional procedures
       9.5   Actions at the incoming international gateway exchange
                9.5.1   Normal operation
                9.5.2   Exceptional procedures
       9.6   Actions at the destination local exchange
                9.6.1   Normal operation
                9.6.2   Exceptional procedures
10   Interactions with other networks
11   Interactions with other supplementary services
       11.1   Advice of charge services
                11.1.1   Charging information at call set-up time
                11.1.2   Charging information during the call
                11.1.3   Charging information at the end of a call
       11.2   Call waiting
       11.3   Call hold
       11.4   Call transfer
                11.4.1   Explicit call transfer
       11.5   Number identification services
                11.5.1   Calling line identification presentation
                11.5.2   Calling line identification restriction
                11.5.3   Connected line identification presentation
                11.5.4   Connected line identification restriction
       11.6   Closed user group
       11.7   Completion of calls to busy subscriber
       11.8   Conference services
                11.8.1   Conference call, add-on
                11.8.2   Meet-me conference
       11.9   Direct dialling in
       11.10   Diversion services
                11.10.1   Call forwarding unconditional
                11.10.2   Call forwarding busy
                11.10.3   Call forwarding no reply
                11.10.4   Call deflection
       11.11   Freephone
       11.12   Malicious call identification
       11.13   Multiple subscriber number
       11.14   Subaddressing
       11.15   Terminal portability
       11.16   Three party service
       11.17   User-to-user signalling
12   Parameter values (timers)
13   Dynamic description
Annex A (informative): Signalling flows

Page 19, subclause 1.6

Replace the complete text by:

The following set of supplementary services is currently identified and more may be identified in the future:

Number identification supplementary services

(see note)   Direct Dialling In (DDI)
(see note)   Multiple Subscriber Number (MSN)
ETS 300 356-3 [4]   Calling Line Identification Presentation (CLIP)
ETS 300 356-4 [5]   Calling Line Identification Restriction (CLIR)
ETS 300 356-5 [6]   Connected Line Identification Presentation (COLP)
ETS 300 356-6 [7]   Connected Line Identification Restriction (COLR)
ETS 300 356-11 [12]   Malicious Call Identification (MCID)
ETS 300 356-10 [11]   Subaddressing (SUB)

Call offering supplementary services

ETS 300 356-14 [14]   Explicit Call Transfer (ECT)
ETS 300 356-15 [15]   Call Forwarding Busy (CFB)
ETS 300 356-15 [15]   Call Forwarding No Reply (CFNR)
ETS 300 356-15 [15]   Call Forwarding Unconditional (CFU)
ETS 300 356-15 [15]   Call Deflection (CD)

Call completion supplementary services

ETS 300 356-16 [16]   Call Hold (HOLD)
ETS 300 356-17 [17]   Call Waiting (CW)
ETS 300 356-18 [18]   Completion of Calls to Busy Subscribers (CCBS)
ETS 300 356-7 [8]   Terminal Portability (TP)

Multiparty supplementary services

ETS 300 356-12 [13]   Conference call, add-on (CONF)
(see note)   Meet-me Conference (MMC)
ETS 300 356-19 [19]   Three Party Service (3PTY)

Community of interest supplementary services

ETS 300 356-9 [10]   Closed User Group (CUG)

Charging supplementary services

(see note)   International Telecommunication Charge Card
(see note)   Advice of Charge (AOC)
(see note)   Freephone (FPH)

Additional information transfer supplementary service

ETS 300 356-8 [9]   User-to-User Signalling (UUS)

> NOTE: Currently no ISUP procedure defined in ISUP version 2 according to this ETS.

History

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