



EUROPEAN
TELECOMMUNICATION
STANDARD

ETS 300 356-17

February 1995

Source: ETSI TC-SPS

Reference: DE/SPS-6001.26

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 17: Call Waiting (CW)
supplementary service**

[CCITT Recommendation Q.733, section 1 (1992), 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 17 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 Call Waiting (CW) supplementary service. The stage 1 and stage 2 aspects are detailed in ETS 300 056 and ETS 300 057, 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 CCITT Recommendation Q.733, section 1 (1992), 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 section 1:

Scope

This seventeenth part of ETS 300 356 specifies the stage three of the Call Waiting (CW) 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 CW supplementary service permits a subscriber to be notified of an incoming call (as per basic call procedures) with an indication that no interface information channel is available. The user then has the choice of accepting, rejecting or ignoring the waiting call (as per basic call procedures).

The CW supplementary service is considered meaningful when applied to the telephony teleservice and the speech and 3,1 kHz audio bearer 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 300 056 (1991): "Integrated Services Digital Network (ISDN); Call Waiting (CW) supplementary service; Service description".
- [3] ETS 300 057 (1992): "Integrated Services Digital Network (ISDN); Call Waiting (CW) supplementary service; Functional capabilities and information flows".

- [4] ETS 300 058-1 (1991): "Integrated Services Digital Network (ISDN); Call Waiting (CW) supplementary service; Digital Subscriber Signalling No. one (DSS1) protocol; Part 1: Protocol specification".
- [5] 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)".
- [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 [ITU-T Recommendation Q.730 (1993), modified]".
- [8] 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 CCITT Recommendation Q.733, section 1

Replace references as shown below.

Reference in CCITT Recommendation Q.733, section 1	Modified reference
CCITT Recommendation I.253.1	ETS 300 056 [2]
CCITT Recommendation Q.83, section 1	ETS 300 057 [3]
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 [5]
ITU-T Recommendation Q.931	ITU-T Recommendation Q.931 as modified by ETS 300 403-1 [8]
CCITT Recommendation Q.953, section 2	ETS 300 058-1 [4]

Page 2, subclause 1.5.2.2.1

Replace "succeeding" by "preceding".

Page 2, subclause 1.5.2.3.1

Replace "succeeding" by "preceding".

Page 3, subclause 1.5.2.3.2

Replace the complete text by:

| If the national network does not support the CW supplementary service, the outgoing international gateway exchange shall discard the corresponding Generic notification indicator parameter and the call shall be completed according to the basic call procedure as described in ITU Recommendation Q.764 as modified by ETS 300 356-1 [6].

Page 3, subclause 1.5.2.4.1

Replace "succeeding" by "preceding".

Page 3, subclause 1.5.2.4.2

Replace the complete text by:

| No exceptional procedures are identified.

Page 3, subclause 1.6.2

Replace the complete text by:

| No impact on ISUP.

Page 4, subclause 1.6.19

Replace the complete text by:

| No impact on ISUP.

Page 7, subclause 1.7, first sentence

Replace the first sentence by:

| In case of interworking with networks which do not provide the CW supplementary service, the notification will be lost.

Annex ZA (normative): Coding of the compatibility information

The parameter compatibility information parameter for the generic notification parameter shall be coded as follows:

- a) Nth upgraded parameter
0010 1100 generic notification parameter
- b) Instruction indicators
 - bit A: Transit at intermediate exchange indicator
0 transit interpretation
 - bit B: Release call indicator
0 do not release call
 - bit C: Send notification indicator
0 do not send notification
 - bit D: Discard message indicator
0 do not discard message (pass on)
 - bit E: Discard parameter indicator
0 do not discard parameter (pass on)
 - bits GF: Pass on not possible indicator
10 discard parameter
- c) Extension indicator
1 last octet

History

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