

Draft **EN 300 356-17** V3.1.1 (1997-10)

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*European Standard (Telecommunications series)*

**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]

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*European Telecommunications Standards Institute*

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Reference

REN/SPS-01039-17 (3as91ico.PDF)

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Keywords

ISDN, ISUP, SS7, supplementary service, CW

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## Foreword

This draft European Standard (Telecommunications series) has been produced by ETSI Technical Committee Signalling Protocols and Switching (SPS), and is now submitted for the Public Enquiry approval phase of the ETSI standards Two-step Approval Procedure.

The present document is part 17 of a multi-part EN covering the ISDN User Part (ISUP) version 3 for the international interface, as identified 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".
- Part 20: "Completion of Calls on No Reply (CCNR) supplementary service";
- Part 31: "Basic Services; PICS proforma specification";
- Part 32: "Basic Services; Test suite structure and test purposes";
- Part 33: "Basic Services; ATS and partial PIXIT proforma specification";
- Part 34: "Supplementary Services; PICS proforma specification";
- Part 35: "Supplementary Services; Test suite structure and test purposes";
- Part 36: "Supplementary Services; ATS and partial PIXIT proforma specification".

NOTE: Part 13 has not been issued.

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 EN 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.

<b>Proposed national transposition dates</b>	
Date of latest announcement of this EN (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

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## Endorsement notice

The text of ITU-T Recommendation Q.733, clause 1 (1992), was approved by ETSI as an EN with agreed modifications as given below.

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# Global modifications to ITU-T Recommendation Q.733, clause 1

Insert the following two clauses (Scope and Normative references) at the start of clause 1:

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## Scope

This seventeenth part of EN 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]).

The present document does not specify the additional protocol requirements where the service is provided to the user via a telecommunications network that is not an ISDN.

The present document does not specify the additional protocol requirements for the national signalling interface.

Although the present document applies only to the international interconnection, the specification of functions, formats and codes of messages and signals, and actions performed at originating and destination local exchanges are retained.

Formats, codes and procedures marked for national use are included for informative purposes for the international interface specification. If these items so marked are supported within a national network and operator's network, then it is proposed that they shall be supported in this manner.

**NOTE:** In the case where a national signalling system behaves differently, the international gateway exchange is to support both the concerned national and 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.

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## Normative references

References may be made to:

- a) specific versions of publications (identified by date of publication, edition number, version number, etc.), in which case, subsequent revisions to the referenced document do not apply; or
- b) all versions up to and including the identified version (identified by "up to and including" before the version identity); or
- c) all versions subsequent to and including the identified version (identified by "onwards" following the version identity); or
- d) publications without mention of a specific version, in which case the latest version applies.

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

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| [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: "Integrated Services Digital Network (ISDN); Call Waiting (CW) supplementary service; Service description".                                     |

- [3] ETS 300 057: "Integrated Services Digital Network (ISDN); Call Waiting (CW) supplementary service; Functional capabilities and information flows".
- [4] ETS 300 058-1: "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] 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]".
- [7] EN 300 356-2: "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]".
- [8] EN 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.733, clause 1

Replace references as shown below:

Reference in ITU-T Recommendation Q.733, clause 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 EN 300 356-2 [7]
ITU-T Recommendation Q.761	ITU-T Recommendation Q.761 as modified by EN 300 356-1 [6]
ITU-T Recommendation Q.762	ITU-T Recommendation Q.762 as modified by EN 300 356-1 [6]
ITU-T Recommendation Q.763	ITU-T Recommendation Q.763 as modified by EN 300 356-1 [6]
ITU-T Recommendation Q.764	ITU-T Recommendation Q.764 as modified by EN 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 EN 300 403-1 [8]
CCITT Recommendation Q.953, section 2	ETS 300 058-1 [4]

#### Subclause 1.5.2.2.1

Replace "succeeding" by "preceding".

#### Subclause 1.5.2.3.1

Replace "succeeding" by "preceding".

#### 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].

**Subclause 1.5.2.4.1**

Replace "succeeding" by "preceding".

**Subclause 1.5.2.4.2**

Replace the complete text by:

| No exceptional procedures are identified.

**Subclause 1.6.2**

Replace the complete text by:

| No impact on ISUP.

**Subclause 1.6.19**

Replace the complete text by:

| No impact on ISUP.

**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.

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## Annex ZA (informative): Coding of the compatibility information

It is recommended that the parameter compatibility information for the generic notification parameter should be coded as follows:

- a) N<sup>th</sup> 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
  - bits JI: Broadband/narrowband interworking indicator
    - 00 pass on



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# History

<b>Document history</b>		
Edition 1	February 1995	Publication as ETS 300 356-17
V3.1.1	October 1997	Public Enquiry PE 9809: 1997-10-31 to 1998-02-27

