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**Broadband Integrated Services Digital Network (B-ISDN);  
Digital Subscriber Signalling System No. two (DSS2) protocol;  
Subaddressing (SUB) supplementary service;  
Part 1: Protocol specification**

**[ITU-T Recommendation Q.2951, clause 8 (1995), modified]**

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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 1 of a multi-part standard covering the Digital Subscriber Signalling System No. two (DSS2) protocol specification for the Broadband Integrated Services Digital Network (B-ISDN) Subaddressing (SUB) supplementary service, as described below:

- Part 1:** "Protocol specification [ITU-T Recommendation Q.2951, clause 8 (1995), modified]";
- Part 2: "Protocol Implementation Conformance Statement (PICS) proforma specification";
- Part 3: "Test Suite Structure and Test Purposes (TSS&TP) specification for the user";
- Part 4: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the user";
- Part 5: "TSS&TP specification for the network";
- Part 6: "ATS and partial PIXIT proforma specification for the network".

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 B-ISDN:

- Stage 1: is an overall service description, from the user's standpoint;
- 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 3 aspects (signalling system protocols and switching functions) needed to support the Subaddressing (SUB) supplementary service. The stage 1 and stage 2 aspects of the equivalent N-ISDN supplementary service are detailed in ETS 300 059 and ETS 300 060 respectively, and these have been assumed to be the foundation for the equivalent B-ISDN supplementary service specifications.

<b>Transposition dates</b>	
Date of adoption of this ETS:	6 September 1996
Date of latest announcement of this ETS (doa):	31 December 1996
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	30 June 1997
Date of withdrawal of any conflicting National Standard (dow):	30 June 1997

## Endorsement notice

The text of ITU-T Recommendation Q.2951, clause 8 (1995) is proposed by ETSI as an ETS with agreed modifications as given below.

NOTE: New or modified text is indicated using sidebars. In addition, underlining and/or strike-out are used to highlight detailed modifications where necessary.

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### subclause 8.1

Replace subclause 8.1 by:

#### 8.1 Scope

This first part of ETS 300 667 specifies the stage three of the Subaddressing (SUB) supplementary service for the pan-European Broadband Integrated Services Digital Network (B-ISDN) as provided by European public telecommunications operators at the  $T_B$  reference point or coincident  $S_B$  and  $T_B$  reference point (as defined in ITU-T Recommendation I.413 [1]) by means of the Digital Subscriber Signalling System No. two (DSS2) protocol. Stage three identifies the protocol and procedures and switching functions needed to support a telecommunication service (see ITU-T Recommendation I.130 [2]).

In addition, this ETS specifies the protocol requirements at the  $T_B$  reference point where the service is provided to the user via a private B-ISDN.

This ETS does not specify the additional protocol requirements where the service is provided to the user via a telecommunications network that is not a B-ISDN.

The SUB supplementary service allows the called (served) user to expand his addressing capacity beyond the one given by the ISDN number.

The SUB supplementary service is applicable to all telecommunication services.

Further parts of this ETS specify the method of testing required to identify conformance to this ETS.

This ETS is applicable to equipment, supporting the SUB supplementary service, to be attached at either side of a  $T_B$  reference point or coincident  $S_B$  and  $T_B$  reference point when used as an access to the public B-ISDN.

#### subclause 8.2, first paragraph

Replace the first paragraph of subclause 8.2 by:

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

#### subclause 8.2

Insert the following references at the end of subclause 8.2:

[7] ETS 300 443-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; B-ISDN user-network interface layer 3 specification for basic call/bearer control; Part 1: Protocol specification [ITU-T Recommendation Q.2931 (1995), modified]".

[8] ETS 300 669-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Supplementary service interactions; Part 1: Protocol specification".

**Throughout the text of ITU-T Recommendation Q.2951, clause 8**

Replace references as shown in the following table.

Reference in ITU-T Recommendation Q.2951, clause 8	Modified reference
ITU-T Recommendation Q.2931 [3]	ITU-T Recommendation Q.2931 as modified by ETS 300 443-1 [7]

**subclause 8.5, first to third paragraphs**

Replace the first, second and third paragraphs by:

The SUB supplementary service shall offer an additional addressing capacity beyond that of the ISDN number of the called user. The functions offered by the SUB supplementary service can be used to identify a particular endpoint of a call beyond the ISDN access.

If a calling user wants to transfer called party subaddress information to the called user, the calling user shall insert the called party subaddress information into the SETUP message as part of the basic service (see figure 8-II.1).

**subclause 8.11.1, last paragraph**

Change the last paragraph to a note.

**subclause 8.11.2**

Replace the complete text of subclause 8.11.2 by:

If the call is not supported by the ISDN for the whole connection, the SUB supplementary service need not be applicable.

**subclause 8.12**

Replace subclause 8.12 and all of its subclauses by:

The interaction of the SUB supplementary service with other supplementary services shall be as specified in ETS 300 669-1 [8].

**appendix I**

Appendix I has the status of an informative annex.

**appendix II**

Appendix II has the status of an informative annex.

## History

Document history			
September 1995	Public Enquiry	PE 92:	1995-09-25 to 1996-01-19
June 1996	Vote	V 106:	1996-06-24 to 1996-08-30
September 1996	First Edition		