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**Broadband Integrated Services Digital Network (B-ISDN);  
Digital Subscriber Signalling System No. two (DSS2) protocol;  
Calling Line Identification Presentation (CLIP)  
supplementary service;  
Part 1: Protocol specification**

**[ITU-T Recommendation Q.2951, clause 3 (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) Calling Line Identification Presentation (CLIP) supplementary service, as described below:

- Part 1:** "Protocol specification [ITU-T Recommendation Q.2951, clause 3 (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 Calling Line Identification Presentation (CLIP) supplementary service. The stage 1 and stage 2 aspects of the equivalent N-ISDN supplementary service are detailed in ETS 300 089 and ETS 300 091 respectively, and these have been assumed as appropriate 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 3 (1995) was approved 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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Whilst every care has been taken in the preparation and publication of this document, errors in content, typographical or otherwise, may occur. If you have comments concerning its accuracy, please write to "ETSI Editing and Committee Support Dept." at the address shown on the title page.

### subclause 3.1

Replace subclause 3.1 by:

#### 3.1 Scope

This first part of ETS 300 663 specifies the stage three of the Calling Line Identification Presentation (CLIP) 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 CLIP supplementary service provides the called party with the possibility of receiving identification of the calling party.

The CLIP 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 CLIP 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 3.2, first paragraph

Replace the first paragraph of subclause 3.2 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 3.2

Insert the following references at the end of subclause 3.2:

- [7] CCITT Recommendation T.50 (1988): "International Alphabet No. 5".
- [8] 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]".
- [9] 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 3**

Replace references as shown in the following table.

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

**subclause 3.3, six last paragraphs**

Replace the definitions of "address", "international number", "national number; national significant number", "subscriber number", "default number" and "special arrangement" by the following revised definitions and add two new definitions:

**address:** The ISDN number of the calling user, and a subaddress if provided by that user.

**international number:** An ISDN number structured as specified in subclause 3.2 (in the paragraphs relating to international number) of ITU-T Recommendation E.164 [4].

**national number; national significant number:** An ISDN number structured as specified in subclause 3.2 (in the paragraphs relating to national number) of ITU-T Recommendation E.164 [4].

**subscriber number:** An ISDN number structured as specified in subclause 3.2 (in the paragraphs relating to subscriber number) of ITU-T Recommendation E.164 [4].

**default number:** An ISDN number registered within the public ISDN following prior agreement between the calling user and the public ISDN.

**special arrangement:** An agreement between a customer and a public network operator whereby customer supplied calling numbers are not screened by the public ISDN.

**subaddress:** See ITU-T Recommendation E.164 [4], subclause 12.2.

**IA5 characters:** See CCITT Recommendation T.50 [7].

**subclause 3.5, first paragraph**

Replace the first paragraph by:

The CLIP supplementary service is a supplementary service offered to the called user. It provides the calling user's ISDN number, possibly with the calling user's subaddress information to the called user.

**subclause 3.9.2.3.1, fourth paragraph**

Replace the fourth paragraph "If presentation (...) options:" and its two bullet items by:

If the calling number is available, but presentation is not allowed according to the presentation indicator supplied together with the calling number, the network shall include the Calling number information element in the SETUP message sent to the called user. The presentation indicator in the Calling party number information element shall indicate "presentation restricted". The type of number and the numbering plan identification shall be set to "unknown" and the number digits field shall not be included.

**subclause 3.9.2.3.1. last paragraph and note**

Replace the last paragraph "If presentation (...) called user" and the following note by the two notes:

NOTE 1: If the presentation indicator in the Calling party number information element received by the user is set to "number not available due to interworking" or "presentation restricted", the remaining information in the Calling party number information element should be ignored by the user.

NOTE 2: Depending on national regulations, some networks may define categories of subscribers that have the ability to override the presentation restriction and have the calling party's ISDN number, and subaddress information (if any) presented (e.g. the police). The ability to override the presentation restriction and the protocol to support such a service is a national matter.

**subclause 3.11.1**

Replace the complete text of subclause 3.11.1 by:

This subclause specifies the particular features to support access signalling interworking between B-ISDN and N-ISDN. The description of interworking assumes the communication scenario B as defined in annex A of ITU-T Recommendation I.580 [6].

**Interworking N-ISDN -> B-ISDN**

The DSS1 Calling party number information element is mapped to the DSS2 Calling party number information element by the interworking function or terminal adaptor by inserting the second octet and changing the length indication from one to two octets.

The DSS1 Calling party subaddress information element is mapped to the DSS2 Calling party subaddress information element by the interworking function or terminal adaptor by inserting the second octet and changing the length indication from one to two octets.

NOTE: It is recommended that the flag bit in octet 2 is set to "instruction field not significant", i.e. the normal error handling procedures as defined in ETS 300 443-1 [8], subclause 5.6 apply.

**Interworking B-ISDN -> N-ISDN**

The DSS2 Calling party number information element is mapped to the DSS1 Calling party number information element by the terminal adaptor or interworking function by removing its second octet and adjusting the length indication without causing other changes to the contents and by respecting the order of this information element in the DSS1 message.

The DSS2 Calling party subaddress information element is mapped to the DSS1 Calling party subaddress information element by the terminal adaptor or interworking function by removing its second octet and adjusting the length indication without causing other changes to the contents and by respecting the order of this information element in the DSS1 message.

**subclause 3.11.2, third paragraph**

Replace the third paragraph by:

On calls incoming from some non-ISDNs, the calling number may be delivered to the destination ISDN without an indication of calling line identity restriction. In this case the network shall, depending on the indication received, either:

- for "presentation allowed", send the Calling party number information element according to the contents of subclause 3.9.2.3.1, second paragraph, and shall include the Calling party subaddress information element if the calling party subaddress is available; or,
- for "presentation restricted", send the Calling party number information element according to the contents of subclause 3.9.2.3.1, fourth paragraph, and shall not include the Calling party subaddress information element.

**subclause 3.12**

Replace subclause 3.12 and all of its subclauses by:

The interaction of the CLIP supplementary service with other supplementary services shall be as specified in ETS 300 669-1 [9].

figure 3-1/Q.2951

Replace figure 3-1/Q.2951 by:

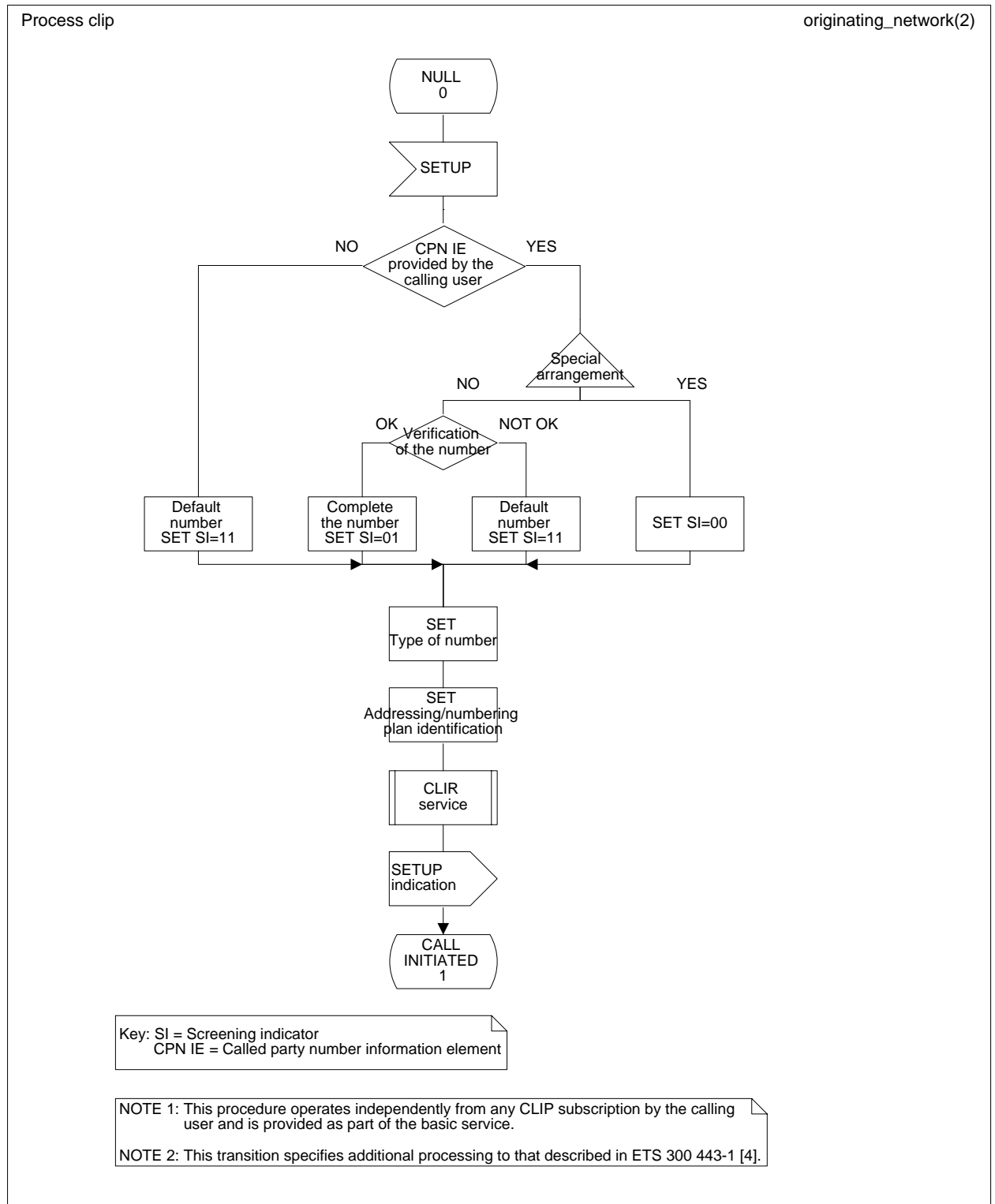


Figure 3-1: Originating network side dynamic description

figure 3-2/Q.2951

Replace figure 3-2/Q.2951 by:

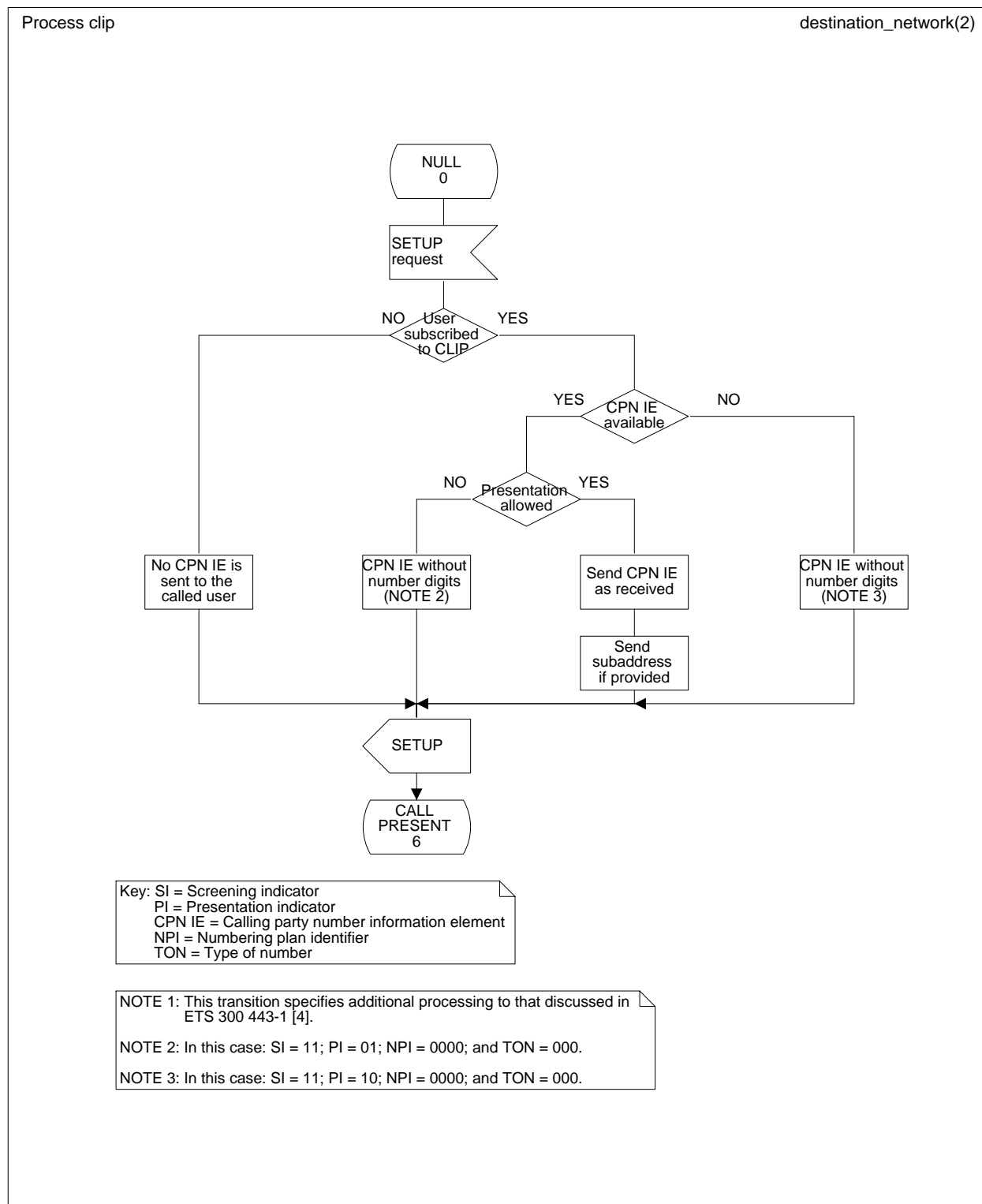


Figure 3-2: Destination network side dynamic description



## **annex A**

Annex A has the status of a normative annex.

### **subclause A.2.1**

Replace the complete text of subclause A.2.1 by:

If the Calling party number information element delivered as a result of the procedures of subclause 3.9.2.1.1.3 has a screening indicator set to "user-provided, not screened", and presentation is allowed according to the presentation indicator supplied together with the calling party number, then the network shall send a second Calling party number information element, immediately following the first Calling party number information element, containing the default number of the access of the calling user. This second Calling party number information element shall be provided according to the procedures of subclause 3.9.2.3.1.

In all other cases, only the first Calling party number information element is sent according to the procedures of subclause 3.9.2.3.1.

### **clause A.4**

Replace the complete text of clause A.4 by:

The procedures of subclause 3.9.2.1.1.2 and subclause 3.9.2.1.1.3 shall apply.

## **appendix I**

Appendix I 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		