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Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Signalling Protocols and Switching (SPS).

The present document is part 1 of a multi-part standard covering the Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN) Calling Line Identification Presentation (CLIP) supplementary service, as described below:

Part 1: "Protocol specification";

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: "Test Suite Structure and Test Purposes (TSS&TP) specification for the network";

Part 6: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the network".

In accordance with CCITT Recommendation I.130, the following three level structure is used to describe the supplementary telecommunications 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 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.

The present document details the stage three 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 are detailed in ETS 300 089 and ETS 300 091, respectively.

The present version updates the references to the basic call specifications and incorporates all amendments to earlier versions.

National transposition dates	
Date of adoption of this EN:	19 June 1998
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1 Scope

This first part of EN 300 092 specifies the stage three of the Calling Line Identification Presentation (CLIP) supplementary service for the pan-European Integrated Services Digital Network (ISDN) as provided by European public telecommunications operators at the T reference point or coincident S and T reference point (as defined in CCITT Recommendation I.411 [1]) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol. Stage three identifies the protocol procedures and switching functions needed to support a telecommunication service (see CCITT Recommendation I.130 [2]).

In addition the present document specifies the protocol requirements at the T reference point where the service is provided to the user via a private ISDN.

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 CLIP supplementary service provides the called party with the possibility to receive identification of the calling party, and is applicable to all telecommunication services.

Further parts of the present document specify the method of testing required to identify conformance to the present document.

The present document is applicable to equipment supporting the CLIP supplementary service, to be attached at either side of a T reference point or coincident S and T reference point when used as an access to the public ISDN.

2 Normative references

References may be made to:

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- 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.

- [1] CCITT Recommendation I.411 (1988): "ISDN user-network interfaces Reference configurations".
- [2] CCITT Recommendation I.130 (1988): "Method for characterisation of telecommunications services supported by an ISDN and network capabilities of an ISDN".
- [3] CCITT Recommendation I.112: "Vocabulary of terms for ISDNs".
- [4] CCITT Recommendation E.164: "Numbering plan for the ISDN era".
- [5] CCITT Recommendation E.163 (1988): "Numbering plan for the international telephone service".
- [6] EN 300 403-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".
- [7] EN 300 195-1: "Integrated Services Digital Network (ISDN); Supplementary service interactions; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [8] CCITT Recommendation I.210: "Principles of telecommunication services supported by an ISDN and the means to describe them".

- [9] ETS 300 089 (1992): "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Service description".
- [10] EN 300 403-2: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 2: Specification and Description Language (SDL) diagrams".
- [11] EN 300 093-1: "Integrated Services Digital Network (ISDN); Calling Line Identification Restriction (CLIR) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [12] CCITT Recommendation Z.100 (1988): "Functional Specification and Description Language (SDL)".

3 Definitions

For the purpose of the present document, the following definitions apply:

Integrated Services Digital Network (ISDN): See CCITT Recommendation I.112 [3], definition 308.

service; telecommunications service: See CCITT Recommendation I.112 [3], definition 201.

supplementary service: See CCITT Recommendation I.210 [8], § 2.4.

network: The DSS1 protocol entity at the network side of the user-network interface.

user: The DSS1 protocol entity at the user side of the user-network interface.

served user: The user of a particular ISDN number who has subscribed to the presentation of the calling line identification information in association with incoming calls. The served user is also known as the called user.

calling user: The user that initiated an incoming call at the served user. The calling user need not have subscribed to the CLIP supplementary service.

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

ISDN number: A number conforming to the numbering plan and structure specified in CCITT Recommendation E.164 [4].

subaddress: See CCITT Recommendation E.164 [4], § 11.2.

calling subaddress: The subaddress of the calling user.

calling number: The ISDN number of the calling user.

international number: An ISDN number structured as specified in § 3.2 (the paragraphs relating to international number) of CCITT Recommendation E.164 [4].

national number; national significant number: An ISDN number structured as specified in § 3.2 (in the paragraphs relating to national significant number) of CCITT Recommendation E.164 [4].

subscriber number: An ISDN number structured as specified in § 3.2 (the paragraphs relating to subscriber number) of CCITT Recommendation E.164 [4].

default number: An agreed ISDN number between the user, at the calling side, and the network provider.

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

4 Abbreviations

For the purposes of the present document, the following abbreviations apply:

CLIP	Calling Line Identification Presentation
CLIR	Calling Line Identification Restriction
DSS1	Digital Subscriber Signalling System No. one
ISDN	Integrated Services Digital Network

5 Description

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.

The information provided to the called user shall consist of the ISDN number of the calling user in a form sufficient to allow the returning of the call (i.e. a subscriber number, a national number or an international number and optionally a subaddress if provided by the calling user).

6 Operational requirements

6.1 Provision and withdrawal

See ETS 300 089 [9], subclause 6.1.

6.2 Requirements on the originating network side

All information pertaining to the CLIP supplementary service shall be inserted in the SETUP message sent as part of the basic call procedures according to EN 300 403-1 [6], clause 5.

In the case where no information is provided by the calling user (as part of the basic call procedures) the network shall provide the default number associated with the access (in which the call was generated) in the originating local exchange.

When the calling number information is provided by the calling user, the network can only verify that the number is within the set of numbers allocated to that user.

Where a special arrangement exists with the calling user, no verification shall be performed.

6.3 Requirements on the destination network side

See subclause 9.5.

7 Coding requirements

EN 300 403-1 [6], subclauses 4.5.10 and 4.5.11 give the coding for the calling party number and the calling party subaddress information elements which are required to support this service.

The purpose of the calling party number information element is to identify the origin of a call.

The purpose of the calling party subaddress information element is to identify a subaddress associated with the origin of the call.