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bUfc b]y_Yg][bU]nUWY`Y`yH`%fB GG%Ł!'%`XY.`GdYWZ_UWYUdfchc_c`U

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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**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 Services and Protocols for Advanced Networks (SPAN).

The present document is part 1 of a multi-part deliverable covering the Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol, 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 ITU-T Recommendation I.130 [2], 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 EN 300 089 [9] and ETS 300 091 [12], respectively.

Version V1.2.4 updated the references to the basic call specifications and incorporates all amendments to earlier versions.

The present version V2.1.1 covers in addition the additional procedures resulting from the support of the Anonymous Call Rejection (ACR) supplementary service.

National transposition dates

Date of adoption of this EN:	9 February 2001
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Date of withdrawal of any conflicting National Standard (dow):	30 November 2001

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1 Scope

The present document 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 ITU-T 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 ITU-T 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 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

- [1] ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces - Reference configurations".
- [2] ITU-T Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [3] ITU-T Recommendation I.112 (1993): "Vocabulary of terms for ISDNs".
- [4] ITU-T Recommendation E.164 (1997): "The international public telecommunication numbering plan".
- [5] ITU-T Recommendation E.163 (1988): "Numbering plan for the international telephone service".
- [6] ETSI EN 300 403-1 (V1.3.2): "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] ETSI EN 300 195-1 (V1.4.3): "Integrated Services Digital Network (ISDN); Supplementary service interactions; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [8] ITU-T Recommendation I.210 (1993): "Principles of telecommunication services supported by an ISDN and the means to describe them".
- [9] ETSI EN 300 089 (V3.1.1): "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Service description".

- [10] ETSI EN 300 093-1 (V1.2.4): "Integrated Services Digital Network (ISDN); Calling Line Identification Restriction (CLIR) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [11] ITU-T Recommendation Z.100 (Addendum 1 (1996)): "CCITT Specification and Description Language (SDL)".
- [12] ETSI ETS 300 091 (1992): "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) and Calling Line Identification Restriction (CLIR) supplementary services; Functional capabilities and information flows".
- [13] ETSI ETS 300 092-1 (1992): "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [14] ETSI ETS 300 102: "Integrated Services Digital Network (ISDN): User-Network Interface Layer 3 Specification Description Language (SDL) Diagrams".
- [15] ETSI ETS 300 191: "Private Telecommunication Network (PTN); Signalling at the S-reference point; Identification supplementary services".
- [16] ETSI EN 300 403: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. One (DSS1) Protocol; Signalling Network Layer for Circuit-Mode Basic Call Control".

3 Definitions and abbreviations

3.1 Definitions (standards.iteh.ai)

For the purposes of the present document, the following terms and definitions apply:

Integrated Services Digital Network (ISDN): see ITU-T Recommendation I.112 [3], definition 308

Service; telecommunications service: see ITU-T Recommendation I.112 [3], definition 201

Supplementary service: see ITU-T Recommendation I.210 [8], clause 2.4

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

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

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

Address: ISDN number of the calling user, and a subaddress if provided by that user

ISDN number: number conforming to the numbering plan and structure specified in ITU-T Recommendation E.164 [4]

Subaddress: see ITU-T Recommendation E.164 [4], clause 11.2

Calling subaddress: subaddress of the calling user

Calling number: ISDN number of the calling user

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

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

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

Default number: agreed ISDN number between the user, at the calling side, and the network provider

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

3.2 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

4 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).

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5 Operational requirements

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5.1 Provision and withdrawal

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See EN 300 089 [9], clause 6.1.

5.2 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.

5.3 Requirements on the destination network side

See clause 8.5.