



SLOVENSKI STANDARD

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Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Service description

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Digitalno omrežje z
integriranimi storitvami
(ISDN)

Integrated Services Digital
Network (ISDN)

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en

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ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

In accordance with CCITT Recommendation I.130 [1], 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 1 aspects (overall service description) for the Calling Line Identification Presentation (CLIP) supplementary service. The stage 2 and stage 3 aspects are detailed in ETS 300 091 [9] (1992) and ETS 300 092 [10] (1992), respectively.

Addition of a new informative annex C, describing the incorporation of extended screening options. These additions describe a method of operation of the screening function that is entirely consistent with the requirements of edition 1, and therefore is entirely interoperable with existing implementations of the CLIP supplementary service.

National transposition dates

Date of adoption of this EN:	5 May 2000
Date of latest announcement of this EN (doa):	31 August 2000
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	28 February 2001
Date of withdrawal of any conflicting National Standard (dow):	28 February 2001

1 Scope

The present document defines the stage one 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. Stage one is an overall service description from the user's point of view (see CCITT Recommendation I.130 [1]), but does not deal with the details of the human interface itself.

The present document defines the interworking requirements of private ISDNs with the public ISDN.

In addition the present document specifies the base functionality where the service is provided to the user via a private ISDN.

The present document does not specify the additional requirements where the service is provided to the user via a telecommunications network that is not an ISDN but does include interworking requirements of other networks with the public ISDN.

Interactions with supplementary services not listed in clause 8 are outside the scope of the present document.

Charging principles are outside the scope of the present document.

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 telecommunications services.

The present document is applicable to the stage two and stage three standards for the ISDN CLIP supplementary service. The terms "stage two" and "stage three" are also defined in CCITT Recommendation I.130 [1]. Where the text indicates the status of a requirement, (i.e. as strict command or prohibition, as authorization leaving freedom or, as a capability or possibility), this shall be reflected in the text of the relevant stage two and stage three standards.

Furthermore, conformance to the present document is met by conforming to the stage three standards with the field of application appropriate to the equipment being implemented. Therefore no method of testing is provided for the present document.

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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, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, 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.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [2] ITU-T Recommendation I.112 (1993): "Vocabulary of terms for ISDNs".
- [3] ITU-T Recommendation E.164 (1997): "The international public telecommunication numbering plan".
- [4] ITU-T Recommendation I.210 (1993): "Principles of telecommunication services supported by an ISDN and the means to describe them".
- [5] ETSI ETS 300 062: "Integrated Services Digital Network (ISDN); Direct Dialling In (DDI) supplementary service; Service description".

- [6] ETSI ETS 300 050: "Integrated Services Digital Network (ISDN); Multiple Subscriber Number (MSN) supplementary service; Service description".
- [7] CCITT Recommendation Q.9 (1988): "Vocabulary of switching and signalling terms".
- [8] ETSI ETS 300 090: "Integrated Services Digital Network (ISDN); Calling Line Identification Restriction (CLIR) supplementary service; Service description".
- [9] ETSI ETS 300 091: "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) and Calling Line Identification Restriction (CLIR) supplementary services; Functional capabilities and information flows".
- [10] ETSI ETS 300 092: "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol".
- [11] ECMA-155: "Private Integrated Services Networks - Addressing (PTNA-2)".

3 Definitions and abbreviations

3.1 Definitions

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

Integrated Services Digital Network (ISDN): see ITU-T Recommendation I.112 [2], subclause 2.3, definition 308

Service; telecommunications service: see ITU-T Recommendation I.112 [2], subclause 2.2, definition 201

Supplementary service: see ITU-T Recommendation I.210 [4], subclause 2.4

ISDN number: number conforming to the numbering plan and structure specified in ITU-T Recommendation E.164 [3]

Subaddress: see ITU-T Recommendation E.164 [3], subclause 11.2

National (ISDN) number: see ITU-T Recommendation E.164 [3], subclause 3.2

International (ISDN) number: see ITU-T Recommendation E.164 [3], subclause 3.2

Partial number: part of an ISDN number which is significant for distinguishing between addressable entities beyond the network boundary. The partial number digits and the partial number length shall be governed by the requirements of the direct dialling in supplementary service and multiple subscriber number supplementary service (see ETS 300 062 [5] and ETS 300 050 [6])

Default number: ISDN number registered within the public ISDN following prior agreement between the calling party and the public ISDN

Screening: process whereby the network checks that a user provided information is acceptable to the network

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

Basic access: see CCITT Recommendation Q.9 [7], clause 1, definition 1551

Primary rate access: see CCITT Recommendation Q.9 [7] clause 1, definition 1552

3.2 Abbreviations

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

CLIP	Calling Line Identification Presentation
CLIR	Calling Line Identification Restriction
DDI	Direct Dialling In
ISDN	Integrated Services Digital Network
MCID	Malicious Call Identification
MSN	Multiple Subscriber Number
PSTN	Public Switched Telephone Network

4 Description

The CLIP supplementary service shall apply to the basic access and to the primary rate access. The CLIP supplementary service provides the called party with the possibility of receiving identification of the calling party.

In addition to the ISDN number, the calling line identity may include a subaddress generated by the calling user and transparently transported by the network. The network cannot be responsible for the content of this subaddress.

The network shall deliver the calling line identity to the called party during call establishment, regardless of the terminal capability to handle the information.

5 Procedures

5.1 Provision and withdrawal

The CLIP supplementary service may be provided after prior arrangement with the service provider or be generally available.

The CLIP supplementary service shall be withdrawn at the customer's request or for administrative reasons.

A special arrangement may exist whereby calling party provided ISDN numbers are not screened by the public ISDN.

5.2 Normal procedures

5.2.1 Activation, deactivation and registration

The CLIP supplementary service shall be activated and deactivated by the service provider. This supplementary service requires no registration.

5.2.2 Erasure

Not applicable.

5.2.3 Invocation and operation

The network shall automatically invoke the CLIP supplementary service in the call set-up phase.

The calling line identity supplied to the called party is made up of a number of information units:

- the national (ISDN) number;
- the country code and possible other indications only for international calls;
- optionally, subaddress information, if provided by the calling user.

The public ISDN shall treat such numbers in the same manner, including those provided under the special arrangement. This means that the public ISDN shall add a country code to a national ISDN number when a call crosses an international boundary.

5.2.3.1 Calling user side

A calling user can insert the calling line identity at call request.

In a full ISDN environment, the calling line identity shall include all the information necessary to unambiguously identify the calling line.

This information is generated:

- in the case of a terminal equipment directly connected to the public ISDN, normally by the public ISDN;
- in the case of a private ISDN connected to the public ISDN, normally by the private ISDN.

This information can be provided in the form of either a partial number or an ISDN number. Where a special arrangement exists this number shall be provided by the user as an E.164 [3] national or international number.

The public ISDN shall screen the provided number. In the case of a special arrangement (e.g. private network situation), no screening shall take place in the public ISDN and the public ISDN shall mark that number as "user provided, not screened".

For successful screening, the number shall be marked as "user provided, verified and passed". Where the public ISDN screening is successful, the public ISDN shall complete this number to form a national ISDN number.

If the user does not provide any number or the screening performed by the public ISDN is not successful, the public ISDN shall enter a default number marked as "network provided".

NOTE 1: Several levels of screening performed by the network can exist. In addition to the screening function described above annex C describes an other option.

NOTE 2: Provision of a partial number or an ISDN number will make sense only when the direct dialling in supplementary service or the multiple subscriber number supplementary service applies at the interface of the calling party. Where a special arrangement exists for not screening a calling party number, the provision of a national ISDN number or an international ISDN number is independent of the direct dialling in supplementary service or the multiple subscriber number supplementary service at that interface.

5.2.3.2 Called user side

When the CLIP supplementary service is invoked, the user shall receive the call with the calling line identity indicated above.

5.2.4 Interrogation

Not applicable.