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**Public Switched Telephone Network (PSTN);
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Service description**

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Foreword

This final draft European Telecommunication Standard (ETS) has been produced by the Network Aspects (NA) Technical Committee of the European Telecommunications Standards Institute (ETSI), and is now submitted for the Voting phase of the ETSI standards approval procedure.

In accordance with CCITT Recommendation I.130 [3], the following three level structure is used to describe supplementary telecommunications services for the 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 principle of this three level structure has been used to develop the service description for the Calling Line Identification Presentation (CLIP) supplementary service as provided by European public telecommunication operators for the Public Switched Telephone Network (PSTN).

This ETS details the stage 1 aspects (overall service description) for the CLIP supplementary service for the PSTN.

ETS 300 659-1 [5] specifies the subscriber line protocol for various PSTN display services at terminal equipment in the "on-hook" state and this includes the protocol for the CLIP supplementary service.

Proposed transposition dates	
Date of latest announcement of this ETS (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

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1 Scope

This European Telecommunication Standard (ETS) defines the stage one of the Calling Line Identification Presentation (CLIP) supplementary service for the Public Switched Telephone Network (PSTN) as provided by European public network operators. Stage one is an overall service description from the user's point of view (see CCITT Recommendation I.130 [3]), but does not deal with the details of the human interface itself.

This ETS defines the interworking requirements between PSTNs and private networks, PSTNs and Integrated Services Digital Networks (ISDNs), and Public Land Mobile Networks (PLMNs).

Interactions with supplementary services not listed in clause 8 are outside the scope of this ETS.

Charging principles are outside the scope of this ETS.

The CLIP supplementary service provides the called party with the possibility of receiving identification of the calling party.

This ETS is applicable to the ETS containing the subscriber line protocol to support the CLIP supplementary service. 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 that standard.

Furthermore, conformance to this ETS is met by conforming to the standards containing the subscriber line protocol to support the CLIP supplementary service with the field of application appropriate to the equipment being implemented. Therefore no method of testing is provided for this ETS.

2 Normative references

This ETS incorporates by dated or 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.

- [1] ETS 300 089 (1992): "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Service description".
- [2] ETS 300 090 (1992): "Integrated Services Digital Network (ISDN); Calling Line Identification Restriction (CLIR) supplementary service; Service description".
- [3] CCITT Recommendation I.130 (1988): "Method for the characterisation of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [4] ETS 300 649: "Public Switched Telephone Network (PSTN); Calling Line Identification Restriction (CLIR) supplementary service; Service description".
- [5] ETS 300 659-1 (1996): "Public Switched Telephone Network (PSTN); Subscriber line protocol over the local loop for display (and related) services; Part 1: On hook data transmission".

3 Definitions

For the purposes of this ETS, the following definitions apply:

calling line identity: The number (information) identifying the calling party.

served user: The user to whom the CLIP supplementary service is provided. It is the called user who receives the Calling Line Identity of the calling party.

analogue access: An ordinary subscriber line access or a Private Branch Exchange (PBX) analogue line access.

4 Abbreviations

For the purposes of this ETS, the following abbreviations apply:

CLIP	Calling Line Identification Presentation
CLIR	Calling Line Identification Restriction
ISDN	Integrated Services Digital Network
PBX	Private Branch Exchange
PLMN	Public Land Mobile Network
PSTN	Public Switched Telephone Network

5 Description

The CLIP supplementary service shall apply to an analogue access.

NOTE: Some networks may provide the CLIP supplementary service only for analogue accesses that are connected to digital exchanges.

The CLIP supplementary service provides the served user with the possibility of receiving calling line identification of the calling party.

The network shall deliver the calling line identity to the served user during call establishment, according to the following service provider options:

- a) prior to ringing; or
- b) during the ringing phase (e.g. during the first long silent interval).

As a service provider option, additional information can be provided to the served user. The content and use of this additional information is outside the scope of this ETS.

6 Procedures

6.1 Provision and withdrawal

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

The CLIP supplementary service shall be withdrawn by the service provider upon the request of the subscriber, or for service provider reasons.

6.2 Normal procedures

6.2.1 Registration and erasure

Not applicable.

6.2.2 Activation and deactivation

The CLIP supplementary service shall be activated by the service provider at provision.

The CLIP supplementary service shall be deactivated by the service provider at withdrawal.

As a service provider option the served user can deactivate and activate the CLIP supplementary service by using a deactivation or activation procedure from the line on which the CLIP supplementary service applies.

6.2.3 Invocation and operation

The network shall automatically invoke the CLIP supplementary service during call establishment.

The network shall provide the served user with the calling line identity.

6.2.4 Interrogation

As a service provider option, in the case where control of activation/deactivation is provided to the served user, the served user can interrogate the status (activated or deactivated) of the CLIP supplementary service.

6.3 Exceptional procedures

6.3.1 Registration and erasure

Not applicable.

6.3.2 Activation and deactivation

If the network supports the activation/deactivation procedure but cannot accept the activation/deactivation request the served user shall be informed (e.g. option not subscribed to).

6.3.3 Invocation and operation

If the presentation of calling line identity is restricted due to the Calling Line Identification Restriction (CLIR) supplementary service (see ETS 300 649 [4]) then the served user shall receive an indication that the calling line identity is not available because of restriction.

In some interworking situations in which the connection is not completely supported by sufficient signalling capability, the served user shall receive an indication that the calling line identity is not available.

In the case of an originating network that does not provide the calling line identity, the served user shall receive an indication that the calling line identity is not available.

Information transfer should be stopped if the call is answered during the transmission phase of the CLIP supplementary service procedure at the served user's interface.

6.3.4 Interrogation

Not applicable.

7 Intercommunication considerations

7.1 Interworking with public ISDNs

If the calling party is connected to an ISDN, the CLIP supplementary service shall apply. However, if the CLIR supplementary service (ETS 300 090 [2]) applies to the ISDN calling user, the served user shall receive an indication that the calling line identity is not available because of restriction.

As a service provider option, the calling line identity delivered to the served user can be composed of both the network provided number and the user provided not screened number.

7.2 Interworking with private networks

Provision of the CLIP supplementary service in the case where the called user is connected to a private network using direct dialling in capability is outside the scope of this ETS.

7.3 Interworking with PLMNs

When the identity of a user in a PLMN is transferred to the PSTN, this identity can be used for the CLIP supplementary service to the served user.

8 Interactions with other supplementary services

8.1 Calling line identification presentation

Not applicable.

8.2 Calling line identification restriction

The CLIR supplementary service shall override the CLIP supplementary service unless the called user has an override category (see note).

NOTE: The CLIP supplementary service can override the CLIR supplementary service when the called user has an override category. This is a national matter, the operation of which is outside the scope of this ETS.

History

Document history			
February 1996	Public Enquiry	PE 101:	1996-02-05 to 1996-05-31
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