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**Public Switched Telephone Network (PSTN);
Calling Line Identification Presentation (CLIP)
supplementary service;
Service description**

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Foreword

This 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 Public Enquiry phase of the ETSI standards approval procedure.

In accordance with CCITT Recommendation I.130 [3], the following three level structure describes supplementary telecommunication services:

- 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;
- Stage 3: defines the signalling system protocols and switching functions needed to implement the service described in stage 1.

This three level structure has been applied for the Calling Line Identification Presentation (CLIP) in the Public Switched Telephone Network (PSTN) supplementary service as provided by European public telecommunication operators for the PSTN.

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

The stage 2 and stage 3 aspects are detailed in prETS 300 659-1. This ETS specifies the subscriber line protocol for various PSTN display services at terminal equipment in the "on-hook" state including 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 draft 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 PSTN and private networks, PSTN and Integrated Services Digital Network (ISDN), and Public Land Mobile Network (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 stage two and stage three standards for the PSTN CLIP supplementary service. The terms "stage two" and "stage three" are also defined in CCITT Recommendation I.130 [3]. Where the text indicates the status of a requirement, this shall be reflected in the text of the relevant stage two and stage three standards.

Furthermore, conformance to this ETS 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 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] CCITT Recommendation E.160 (1990): "Definitions relating to national and international numbering plans".
- [5] prETS 300 649: "Public Switched Telephone Network (PSTN); Calling Line Identification Restriction (CLIR) supplementary service; Service description".

3 Definitions

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

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

prefix information: See CCITT Recommendation E.160 [4].

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 or an analogue trunk line or a digital trunk line (non-ISDN).

4 Abbreviations

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

| | |
|------|--|
| CLIP | Calling Line Identification Presentation |
| CLIR | Calling Line Identification Restriction |
| ISDN | Integrated Service Digital Network |
| 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 identity 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.

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 at the served user's request or for administrative 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 activate and deactivate the supplementary service CLIP by using an activation or deactivation 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 activation/deactivation is provided to the served user, it shall be possible for the user to 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. service 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 [5]) 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 applies to the ISDN calling user, the served user shall receive an indication that the calling line identity is not available because of the 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 DDI 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.

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

History

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