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**Integrated Services Digital Network (ISDN);
Calling Line Identification Restriction (CLIR)
supplementary service
Service description**

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Foreword

This European Telecommunication Standard (ETS) has been produced by the Network Aspects (NA) Technical Committee of the European Telecommunications Standards Institute (ETSI), and was adopted having passed through the ETSI standards approval procedure.

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.

This ETS details the stage 1 aspects (overall service description) for the Calling Line Identification Restriction (CLIR) supplementary service. The stage 2 and stage 3 aspects are detailed in ETS 300 091 (1992) and ETS 300 093 (1992), respectively.

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1 Scope

This standard defines the stage one of the Calling Line Identification Restriction (CLIR) 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.

This standard defines the interworking requirements of private ISDNs with the public ISDN.

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

This standard 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 this standard.

Charging principles are outside the scope of this standard.

The CLIR supplementary service enables the calling party to prevent presentation of its ISDN number to the called party.

The CLIR supplementary service is applicable to all telecommunications services.

This standard is applicable to the stage two and stage three standards for the ISDN CLIR 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 authorisation leaving freedom, as a capability or possibility), this shall be reflected in the text of the relevant stage two and stage three standards.

Furthermore, conformance to this standard 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 standard.

2 Normative references

This standard 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 standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] CCITT Recommendation I.130 (1988): "Method for the characterisation of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [2] CCITT Recommendation I.112 (1988): "Vocabulary of terms for ISDNs".
- [3] CCITT Recommendation E.164 (1988): "Numbering plan for the ISDN era".
- [4] CCITT Recommendation I.210 (1988): "Principles of telecommunication services supported by an ISDN and the means to describe them".
- [5] ETS 300 089 (1992) "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP); Service description".
- [6] CCITT Recommendation Q.9 (1988): "Vocabulary of switching and signalling terms".

3 Definitions

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

Integrated Services Digital Network (ISDN): see CCITT Recommendation I.112 [2], § 2.3, definition 308.

Service; telecommunications service: see CCITT Recommendation I.112 [2], § 2.2, definition 201.

Supplementary service: see CCITT Recommendation I.210 [4], § 2.4.

ISDN number: a number conforming to the numbering plan and structure specified in CCITT Recommendation E.164 [3].

Subaddress: see CCITT Recommendation E.164 [3], § 11.2.

Temporary mode: in this mode, the CLIR supplementary service is invoked on a per call basis.

Permanent mode: in this mode, the CLIR supplementary service is invoked automatically by the network on all calls originated by the calling user.

Override category: this allows a special category of users (e.g. police) to override the CLIR supplementary service in order to receive the calling line identity. This is a national matter, the operation of which is beyond the scope of this standard.

Basic access: see CCITT Recommendation Q.9 [6], § 1, definition 1551.

Primary rate access: see CCITT Recommendation Q.9 [6], § 1, definition 1552.

4 Symbols and abbreviations

CLIP	Calling Line Identification Presentation
CLIR	Calling Line Identification Restriction
ISDN	Integrated Services Digital Network

5 Description

The CLIR supplementary service shall apply to the basic access and to the primary rate access.

The CLIR supplementary service is a supplementary service offered to the calling party to prevent presentation of the calling party's ISDN number, and subaddress information (if any), to the called party. In the case where the called party has an override category, see subclause 6.2.3.

6 Procedures

6.1 Provision and withdrawal

The CLIR supplementary service, temporary mode, may be provided on a subscription basis or may be generally available.

The CLIR supplementary service, permanent mode, shall be provided on a subscription basis.

As a network option, the CLIR supplementary service can be offered with several subscription options. A network providing the CLIR supplementary service shall support temporary mode at a minimum. Subscription options are summarised in table 1.

Table 1

Subscription option	Values
Mode	<ul style="list-style-type: none"> - permanent mode (active for all calls) - temporary mode (specified by the user per call)
Temporary mode default	<ul style="list-style-type: none"> - presentation restricted - presentation not restricted

6.2 Normal procedures

6.2.1 Activation, deactivation and registration

The CLIR supplementary service shall be activated on provision and deactivated on withdrawal. This supplementary service requires no registration.

6.2.2 Erasure

Not applicable.

6.2.3 Invocation and operation

6.2.3.1 Calling user side

If the calling party has subscribed to the CLIR supplementary service in the permanent mode, then the network shall automatically invoke the CLIR supplementary service for each outgoing call.

If the calling party has subscribed to the CLIR supplementary service in the temporary mode with default value "presentation restricted", then the network shall automatically invoke the CLIR supplementary service for each outgoing call unless the default value is overridden by subscriber request at the time of call request.

If the calling party has subscribed to the CLIR supplementary service in the temporary mode with default value "presentation not restricted", then the network shall only invoke the CLIR supplementary service if requested by the subscriber at the time of call request.

6.2.3.2 Called user side

If the called party subscribes to the CLIP supplementary service (see ETS 300 089 [5]) and the CLIR supplementary service has been invoked then the called party shall receive an indication that the calling party number is not available due to restriction.

NOTE 1: If an ISDN supports the override category, then depending on national regulations, some networks may define categories of subscribers that have the ability to override the presentation restriction and have the calling party's ISDN number, and subaddress information (if any) presented (e.g. the police). The ability to have such an override category is a national matter.

NOTE 2: In the case of the override category applying to a called user on a call which originates in one ISDN and terminates in another ISDN and if the CLIR supplementary service is invoked, the rules and regulations of the destination network apply. For example, the override category may not be applicable in the originating network but may be applicable in the destination network. In this situation a call with the CLIR supplementary service invoked can still be overridden in the destination network.

6.2.4 Interrogation

Not applicable.

6.3 Exceptional procedures

6.3.1 Activation, deactivation and registration

Not applicable.

6.3.2 Erasure

Not applicable.

6.3.3 Invocation and operation

Not applicable.

6.3.4 Interrogation

Not applicable.

7 Intercommunication considerations

For calls between public ISDNs, when the CLIR supplementary service is invoked, the originating network shall provide the destination network with a notification that the ISDN number of the calling party, and the subaddress information (if any), is not allowed to be presented to the called party.

NOTE: When the CLIR supplementary service is invoked, some network providers may not send the calling line identity to other network providers.

7.1 Interworking with non-ISDNs

On calls to or via non-ISDNs, it cannot be assured that a CLIR indication can be carried to the destination network. As a network option the originating network can restrict any information identifying the calling party from being forwarded to the destination network when the CLIR supplementary service has been invoked. If a destination network receives a calling party number without any indication of presentation allowed or restricted, the destination network shall act according to its rules and regulations.

7.2 Interworking with private ISDNs

On calls from the public ISDN to the private ISDN, the public ISDN can restrict any information identifying the calling party from being sent to the private ISDN when the CLIR supplementary service has been invoked.

On calls to the public ISDN, the private ISDN can indicate that the CLIR supplementary service has been invoked.

8 Interactions with other supplementary services

8.1 Advice of Charge

8.1.1 Charging information at call set-up time

No impact, i.e. neither supplementary service shall affect the operation of the other supplementary service.

8.1.2 Charging information during the call

No impact, i.e. neither supplementary service shall affect the operation of the other supplementary service.

8.1.3 Charging information at the end of the call

No impact, i.e. neither supplementary service shall affect the operation of the other supplementary service.

8.2 Call waiting

No impact, i.e. neither supplementary service shall affect the operation of the other supplementary service.

8.3 Call hold

No impact, i.e. neither supplementary service shall affect the operation of the other supplementary service.

8.4 Call transfer

8.4.1 Explicit call transfer

A calling user's restriction requirement from the original call shall be used in order to restrict the presentation of that user's address to the other user in a transferred call.

8.4.2 Single step transfer

A calling user's restriction requirement from the original call shall be used in order to restrict the presentation of that user's address to the other user in a transferred call.

8.5 Number identification services

8.5.1 Calling line identification presentation

The CLIR supplementary service shall normally take precedence over the CLIP supplementary service.

The CLIP supplementary service can take precedence over 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 the standard.

8.5.2 Calling line identification restriction

Not applicable.

8.5.3 Connected line identification presentation

No impact, i.e. neither supplementary service shall affect the operation of the other supplementary service.

8.5.4 Connected line identification restriction

No impact, i.e. neither supplementary service shall affect the operation of the other supplementary service.

8.6 Closed user group

No impact, i.e. neither supplementary service shall affect the operation of the other supplementary service.

8.7 Completion of calls to busy subscriber

No impact, i.e. neither supplementary service shall affect the operation of the other supplementary service.

8.8 Conference services

8.8.1 Conference call, add-on

No impact, i.e. neither supplementary services shall affect the operation of the other supplementary service.

8.8.2 Meet me conference

No impact, i.e. neither supplementary service shall affect the operation of the other supplementary service.

8.9 Direct dialling in

No impact, i.e. neither supplementary service shall affect the operation of the other supplementary service.

8.10 Diversion services

8.10.1 Call forwarding unconditional

When the CLIR supplementary service has been invoked, the calling party's ISDN number shall not be presented to the forwarded-to user unless the forwarded-to user has an override category.

8.10.2 Call forwarding busy

When the CLIR supplementary service has been invoked, the calling party's ISDN number shall not be presented to the forwarded-to user unless the forwarded-to user has an override category.

8.10.3 Call forwarding no reply

When the CLIR supplementary service has been invoked, the calling party's ISDN number shall not be presented to the forwarded-to user unless the forwarded-to user has an override category.

8.10.4 Call deflection

When the CLIR supplementary service has been invoked, the calling party's ISDN number shall not be presented to the deflected-to user unless the deflected-to user has an override category.

8.11 Freephone

No impact, i.e. neither supplementary service shall affect the operation of the other supplementary service.

8.12 Malicious call identification

No impact, i.e. neither supplementary service shall affect the operation of the other supplementary service.

NOTE: When the malicious call identification supplementary service is invoked, the number of an incoming call is registered in the network regardless of whether the calling user has activated the CLIR supplementary service or not.

8.13 Multiple subscriber number

No impact, i.e. neither supplementary service shall affect the operation of the other supplementary service.

8.14 Subaddressing

No impact, i.e. neither supplementary service shall affect the operation of the other supplementary service.

8.15 Terminal portability

No impact, i.e. neither supplementary service shall affect the operation of the other supplementary service.

8.16 Three party

No impact, i.e. neither supplementary service shall affect the operation of the other supplementary service.

8.17 User-user signalling

No impact, i.e. neither supplementary service shall affect the operation of the other supplementary service.

History

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