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*European Standard (Telecommunications series)*

## **Integrated Services Digital Network (ISDN); Connected Line Identification Presentation (COLP) supplementary service; Service description**

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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 Connected Line Identification Presentation (COLP) supplementary service. The stage 2 and stage 3 aspects are detailed in ETS 300 096 [9] and EN 300 097-1 [10], respectively.

Addition of a new informative annex B, 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 COLP supplementary service.

<b>National transposition dates</b>	
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

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# 1 Scope

The present document defines the stage one of the Connected Line Identification Presentation (COLP) 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 COLP supplementary service provides the calling party with the possibility to receive identification of the connected party.

The COLP supplementary service is applicable to all telecommunications services.

The present document is applicable to the stage two and stage three standards for the ISDN COLP 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 300 095: "Integrated Services Digital Network (ISDN); Connected Line Identification Restriction (COLR) supplementary service; Service description".
- [9] ETSI ETS 300 096: "Integrated Services Digital Network (ISDN); Connected Line Identification Presentation (COLP) and Connected Line Identification Restriction (COLR) supplementary services; Functional capabilities and information flows".
- [10] ETSI EN 300 097-1: "Integrated Services Digital Network (ISDN); Connected Line Identification Presentation (COLP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [11] ECMA-155: "Private Integrated Services Networks - Addressing (PTNA-2)".

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## 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 connected party and the public ISDN

**Screening:** a 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 connected party ISDN numbers are not screened by the public ISDN

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

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

## 3.2 Abbreviations

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

COLP	Connected Line Identification Presentation
COLR	Connected Line Identification Restriction
ISDN	Integrated Services Digital Network
PSTN	Public Switched Telephone Network

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## 4 Description

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

The COLP supplementary service provides the calling party with the possibility to receive identification of the connected party. This supplementary service is not a dialling check.

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

The network shall deliver the connected line identity to the calling party on call acceptance regardless of the terminal capability to handle the information.

NOTE: In some situations, e.g. when a default number is used, the information may not precisely identify the connected party.

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## 5 Procedures

### 5.1 Provision and withdrawal

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

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

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

### 5.2 Normal procedures

#### 5.2.1 Activation, deactivation and registration

The COLP 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 COLP supplementary service on each outgoing call made by the calling user.

The connected line identity supplied to the calling 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 connected party.

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 number when a call crosses an international boundary.

#### 5.2.3.1 Connected user side

The connected user can insert the connected line identity on call acceptance.

The connected ISDN number as presented to the calling user can be 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 screening performed by the public ISDN 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 B 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 connected party. Where a special arrangement exists for not screening a connected party number provided by a private ISDN, the provision of a national ISDN number or and 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 Calling user side

When the COLP supplementary service is invoked, the user shall receive the connected line identity indicated above at call connect time.

### 5.2.4 Interrogation

Not applicable.

## 5.3 Exceptional procedures

### 5.3.1 Activation, deactivation and registration

Not applicable.

### 5.3.2 Erasure

Not applicable.

### 5.3.3 Invocation and operation

If the presentation of the ISDN number of the called user is restricted due to the COLR supplementary service (see ETS 300 095 [8]), then the calling ISDN user shall receive an indication that the connected line identity is not available due to restriction.

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

For an international call in which the destination network does not provide the connected line identity, or a connected line identity is unavailable for some other reason, then the calling ISDN user shall receive an indication that the connected line identity is not available.

### 5.3.4 Interrogation

Not applicable.

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## 6 Intercommunication considerations

NOTE: In interworking situations when information is passed to other networks which do not support the requirements of the present document, information (e.g. the "user provided, not screened" number) could be discarded.

### 6.1 Interworking with non-ISDNs

According to national network specific rules the COLP supplementary service need not be applicable if at least one of the two parties is not an ISDN subscriber.

### 6.2 Interworking with private ISDNs

For a call which enters the private ISDN, the private ISDN shall perform its own screening function on the connected user provided information, after which the resulting number shall be given to the public ISDN in the form of an ITU-T Recommendation E.164 [3] national or international ISDN number. This number shall be screened by the public ISDN unless a special arrangement has been made (see subclause 5.2.3.1).

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

If the private ISDN does not provide any number, or if the screening performed by the public ISDN is unsuccessful, the public ISDN shall enter a default number and shall mark this number as "network provided".

Where the connected user is attached to a public ISDN and the calling user is attached to a private ISDN, the public ISDN shall forward the appropriate connected party ISDN number to the private ISDN.

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## 7 Interactions with other supplementary services

### 7.1 Advice of charge

#### 7.1.1 Charging information at call set-up time

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

#### 7.1.2 Charging information during the call

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

#### 7.1.3 Charging information at the end of the call

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

### 7.2 Call waiting

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

### 7.3 Call hold

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

### 7.4 Call transfer

#### 7.4.1 Explicit call transfer

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

#### 7.4.2 Single step call transfer

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

### 7.5 Number identification services

#### 7.5.1 Calling line identification presentation

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

#### 7.5.2 Calling line identification restriction

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

#### 7.5.3 Connected line identification presentation

Not applicable.

## 7.5.4 Connected line identification restriction

The COLR supplementary service shall normally take precedence over the COLP supplementary service. The COLP supplementary service can take precedence over the COLR supplementary service when the calling user has an override category. This is a national matter, the operation of which is outside the scope of the present document.

## 7.6 Closed user group

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

## 7.7 Completion of calls to busy subscriber

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

## 7.8 Conference services

### 7.8.1 Conference call, add-on

**Conference controller:** no impact, i.e. neither supplementary service shall affect the operation of the other supplementary service.

**Conferees:** conferees shall not receive the COLP supplementary service information of parties being added to the conference.

### 7.8.2 Meet me conference

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

## 7.9 Direct dialling in

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

NOTE: At the connected party's user-network interface, the network may be supplied with a connected party number as a result of the direct dialling in supplementary service applying either:

- at that interface, in which case a partial or full connected party number may be supplied and may be subject to screening by the ISDN; or
- at that interface or at another interface to which the same private ISDN is attached, in which case a full (international or national) ISDN number may be supplied, subject to the existence of a special arrangement for not screening.

## 7.10 Diversion services

### 7.10.1 Call forwarding unconditional

If the served (forwarding) user selects the option that the calling user is not notified of call forwarding, then the calling user shall receive no forwarding notification. In addition, the calling user shall not receive the connected user's identity when the call is answered, unless the calling user has override capability.

If the served (forwarding) user selects the option that the calling user is notified, but without the forwarded-to number, then the calling user shall not receive the connected user's identity when the call is answered, unless the calling user has override capability.

## 7.10.2 Call forwarding busy

If the served (forwarding) user selects the option that the calling user is not notified of call forwarding, then the calling user shall receive no forwarding notification. In addition, the calling user shall not receive the connected user's identity when the call is answered, unless the calling user has override capability.

If the served (forwarding) user selects the option that the calling user is notified, but without the forwarded-to number, then the calling user shall not receive the connected user's identity when the call is answered, unless the calling user has override capability.

## 7.10.3 Call forwarding no reply

If the served (forwarding) user selects the option that the calling user is not notified of call forwarding, then the calling user shall receive no forwarding notification. In addition, the calling user shall not receive the connected user's identity when the call is answered, unless the calling user has override capability.

If the served (forwarding) user selects the option that the calling user is notified, but without the forwarded-to number, then the calling user shall not receive the connected user's identity when the call is answered, unless the calling user has override capability.

## 7.10.4 Call deflection

If the served (deflecting) user selects the option that the calling user is not notified of call deflection, then the calling user shall receive no deflecting notification. In addition, the calling user shall not receive the connected user's identity when the call is answered, unless the calling user has override capability.

If the served (deflecting) user selects the option that the calling user is notified, but without the deflected-to number, then the calling user shall not receive the connected user's identity when the call is answered, unless the calling user has override capability.

## 7.11 Freephone

Callers to freephone numbers shall not be given the connected line identity. They shall be given a number consisting of the service access code and the freephone number.

## 7.12 Malicious call identification

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

## 7.13 Multiple subscriber number

If the multiple subscriber number supplementary service is applicable to the public network access interface of the connected party, then this party can provide the appropriate connected party multiple subscriber number digits or full ISDN number on call answer. If no special arrangement has been made with the connected subscriber, then the network shall check the user provided connected party number information for validity on the corresponding access. If the check fails or if no connected number information is provided by the user, then the network shall apply the default number of the connected party's access.

If the multiple subscriber number supplementary service is applicable to the public network access interface of the calling party, then neither supplementary service shall affect the operation of the other supplementary service.

## 7.14 Subaddressing

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

## 7.15 Terminal portability

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

## 7.16 Three party

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

## 7.17 User-user signalling

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

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## Annex A (informative): Terminal interchangeability between public and private ISDNs

In private ISDNs, Private Numbering Plans are likely to be used, either as an alternative to, or as an addition to, the ISDN numbering plan according to ITU-T Recommendation E.164 [3]. In order to connect terminals to private ISDNs, terminals need to support such number plans. To ensure terminal interchangeability, terminals need to support both kinds of numbering schemes.

Relevant material has been published by the European Computer Manufacturers' Association (ECMA), including a standard ECMA-155: "Addressing in private telecommunications networks" [11].

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## Annex B (informative): Extended screening option

### B.1 Scope

This annex describes an extended screening option of the COLP supplementary service that may be provided by some public ISDNs as a network option. This additional option does not apply when the special arrangement is used.

The purpose of this extended screening option is to provide a possibility of maintaining the original connected line identity in cases where calls to private ISDN can be routed by the public network via different nodes. To support this possibility, the extended screening option allows that entries of the screening list could be replicated to (an) other location(s) in the network. Without the extended screening capability, the original connected line identity is replaced by a network provided number because the original connected line identity is not on the screening list of the public network node at which the call enters the private network.

This service enables the public network to provide an improved assessment of the connected line identity, and this number is then available for delivery by the COLP supplementary service. This extended screening option will also reduce the need for users of private ISDNs to invoke COLR to prevent the presentation of network provided numbers. This extended screening option is identical to the extended screening option for the calling line identification presentation supplementary service (annex C of EN 300 089).

This extended option shall have no impact on and shall place no requirement whatsoever on the provision and operation of the COLP supplementary service defined in the present document and related functions (e.g. billing and monitoring) and other services (e.g. freephone) by the ISDNs that do not support these extended options, nor on the interchangeability of terminals.

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### B.2 Description

NOTE 1: To be read in conjunction with the statements in subclause 5.2.3.1 "Connected user side" and subclause 6.2 "Interworking with private ISDNs" in the main part of the present document.

Screening is defined to be a process whereby the network checks that a user provided information is acceptable to the network. This is understood to be consisting of a list of numbers against which the network checks the user provided number. The screening process checks for the numbers and/or the number ranges associated with the connected user (including direct dialling in supplementary service and multiple subscriber number supplementary service). The screening ensures to the calling party that these numbers are guaranteed by the public ISDN for identification of the connected party.

These numbers and/or number ranges for use in the screening process may be settled between the customer of the access and the public network operator. The service provider/network operator is obliged to ensure that the screening list for a called subscriber contains only such numbers which are allocated to the called subscriber/user and thus make the connected party identifiable to the calling party.

The numbers entered into the screening list for a called subscriber should be numbers of publicly available telecommunications services allocated to the called subscriber/user, e.g. E.164 [3] numbers. The screening list may contain numbers such as:

- from several geographic locations (e.g. corporate network with access lines in different areas) if the subscriber has physical access lines with distinct numbers at those locations; and/or
- from different service providers/network operators if the called subscriber/user has contracts for the provision of publicly available telecommunications services with them and was allocated numbers by them; and/or
- from different publicly available telecommunications services (e.g. value added services provided by the PSTN/ISDN) if the called subscriber subscribes to their provision and is identifiable by them.



It is essential that the calling party can identify the connected party.

NOTE 2: The extended screening option may have the effect that entries of the screening list could be replicated to (an)other location(s) in the network. For this purpose, the number provided by the user respectively contained in the screening list should be sufficiently significant. I.e. the type of number should be "national" or "international", if the numbers of such a replicated screening list do not belong to the same local area or country code as the user.

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## Bibliography

The following material, though not specifically referenced in the body of the present document (or not publicly available), gives supporting information.

- ETSI EN 300 089 (V2.1): "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Service description".

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## History

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