



AUSTRALIAN COMMUNICATIONS INDUSTRY FORUM  
INDUSTRY SPECIFICATION

**PART E.5 STAGE 1 SUPPLEMENTARY  
DESCRIPTION - CALLING LINE IDENTIFICATION  
PRESENTATION/RESTRICTION**



## Industry Specification

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**Recommendation I.251.3 Part E.5****STAGE 1 SUPPLEMENTARY DESCRIPTION****CALLING LINE IDENTIFICATION PRESENTATION/RESTRICTION***(revised 1992)***General**

This document forms part of the Australian Communications Industry Forum (ACIF) G.500 signalling protocol specification for interconnection services to be used in the Australian domestic network.

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**ITU Sales and Marketing Service**

Place Des Nations - CH-1211 GENEVA 20 Switzerland

E-mail: sales@itu.int

This document is based on ITU-T recommendations I.251.3 and I.251.4 (1992). This document is a modification of ITU-T recommendation I.251.3 and I.251.4 which have been customised to suit Australian network requirements.

**Participants**

The ACIF group (Network Reference Panel: Working Committee #7 "Signalling and Interconnect Dial Plan") that developed this document consisted of the following companies and representatives:

<b><u>Representative</u></b>	<b><u>Company / Organisation</u></b>	
Gary McLaren	Siemens	Chairperson
Alan Arthurell	Alcatel	Secretary
Sam Fois	Telstra	Interconnection Implementation Plan Editor
Roger Nicoll	Primus	Interconnection Implementation Plan Editor
Catherine Tritt	Telstra	Signalling Specification Editor
Adrian Jang	Telstra	Signalling Specification Editor
Sarath Weerasinghe	Nortel	Signalling Specification Editor
Wayne Thomas	AAPT	
Peter Ramsey	ACA	
Mankin Leung	Alcatel	
Ian Bentley	C&W Optus	
Kamal Wanigatunga	C&W Optus	
Terry Gillespie	C&W Optus	
James Dam	C&W Optus	
Mark Hollis	Ericsson	
Nebojsa Dikic	Ericsson	
Craig Hennessy	Global One	
Elizar Franco	Global One	
Mark Ristich	Lucent	
Michelle Fong	Lucent	
Paul Coleman	MCI/Worldcom	
Thomas Kam	Nortel	

<u>Peter Hull</u>	<u>Nortel</u>
<u>Trinh Lam</u>	<u>Primus</u>
<u>Adrian Pizzica</u>	<u>Telstra</u>
<u>Phil Walls</u>	<u>Telstra</u>
<u>Dusica Vukadinovic</u>	<u>Vodafone Network</u>
<u>Matthew Ahjong</u>	<u>Vodafone Network</u>
<u>Davorica Karacic</u>	<u>Vodafone Network</u>

## **Introduction**

This document specifies the requirements for the implementation of the ACIF G.500 specification based on ITU-T recommendations I.251.3 and I.251.4.

## **References**

ITU-T Recommendation I.251.3 and I.251.4 (1992).

## **Recommendation I.251.3 Part E-5**

### **1 Definition**

**Calling Line Identification Presentation** is a supplementary service offered to the called party which provides the calling party's ISDN-number, possibly with sub-address information, to the called party.

**Calling Line Identification Restriction** is a supplementary service offered to the calling party to restrict presentation of the calling party's ISDN-number and sub-address to the called party.

### **2 Description**

#### *2.1 General description*

When Calling Line Identification Presentation (CLIP) is applicable and activated, the network provides the called party with the number of the calling party at call set-up on all incoming calls.

The calling party number may be accompanied by a sub-address.

The network should be capable of transmitting at least 15 digits [maximum length of an integrated services digital network (ISDN) number]. In addition, if provided by the calling party, the network should be capable of transmitting a sub-address.

The network to which the calling party belongs should attempt to ensure that enough digits are transmitted to enable the called party to return the call, based on the calling number presented.

When Calling Line Identification Restriction (CLIR) is applicable and activated, the originating node provides the destination node with a notification that the calling party's ISDN number and any sub-address information are not allowed to be presented to the called party. In this case no calling party number is included in the call offering to the called party's installation.

The agreement to provide Calling Line Identification between interconnecting Australian domestic networks is a pre-requisite for the CLIP/CLIR service. If a transit or third party network agrees to support the CLIP/CLIR service, then transit or third party network must ensure that the CLIP/CLIR indication (Address Presentation Restricted Indicator) is transmitted unmodified to the access network of the called party.



The CLIP/CLIR Indication (Address Presentation Restricted Indicator) once established by the calling party's access network must not be changed or modified by an interconnecting network. However, the CLIP/CLIR indication may not be supported in all interconnecting networks. In this case the relevant indication is discarded.

This service is explicitly defined for use in an Integrated Services Digital Network (ISDN) and a digital mobile network. The service may also be offered in an alternate telephony network or AMPS network.

In the ISDN and GSM network cases the relevant ITU-T ISDN DSS1 or GSM standard for support of this service must be applied.

For the alternate network options, the general implementation supporting this supplementary service description should be considered as the basis for developing any alternate network solutions.

It is a requirement of Part 18 of the Telecommunications Act 1997 that Calling Line Identification information be activated.

## 2.2 *Specific terminology*

*Partial number:* a part of an ISDN number which is relevant to a selection process between addressable entities beyond the network boundary. The partial number digits and the partial number length are subject to subscription to the relevant supplementary services Direct-Dialling-In (DDI) or Multiple Subscriber Number (MSN).

## 2.3 *Qualifications on the applicability to telecommunication services*

This supplementary service is applicable to all telecommunication services.

It is to be noted that in the telematic services an exchange of terminal identification (TID) occurs at a higher layer subsequent to a successful call establishment.

For telematic services this supplementary service shall consist only of the access number of the calling party and this shall be provided by the network. For other non-voice services this supplementary service is for further study. The presentation of the calling party's ISDN number by telematic terminals and by other non-voice terminals is for further study.

# 3 **Procedures**

## 3.1 *Provision/withdrawal*

CLIP may be provided on a subscription basis or be generally available. CLIP may be withdrawn at the request of the subscriber or by the network provider for administrative reasons.

CLIR can be provided on a subscription basis or be generally available.

As a network provider option, CLIR can be offered with several subscription options. The options apply separately to each ISDN number. Subscription options are summarized below:

Subscription option	Values
CLIR mode	Permanent (active for all calls) Temporary (specified by user per call)
Default (only for temporary mode)	Presentation restricted Presentation not restricted

~~It is a network provider option to specify either or both of the above options for all subscribers, for instance, in an exchange or network.~~

### 3.2 *Normal procedures*

#### 3.2.1 *Activation/deactivation/registration*

CLIP is activated on provision and deactivated on withdrawal. No information needs to be registered with the network for this supplementary service.

~~———— If subscribed to in the permanent mode, CLIR is always activated. If subscribed to on a temporary basis, CLIR is activated upon explicit request for the service, or on default, on a particular call and is deactivated after that call.~~

#### 3.2.2 *Invocation and operation*

The number presented shall unambiguously identify the access of the calling party. The number presented is either:

- i) completely provided by the network;
- ii) completely provided by the calling party; or
- iii) partially provided by the calling party, in the form of a partial number, with the rest provided by the network (e.g. the access number is provided by the network and the additional digits to make the number complete by the calling party).

Some networks may provide additional information (see Annex A).

Where either the complete calling number, or part of the calling number is initially provided by the calling party, the network may check its validity, unless a special connection arrangement exists between the customer and the public network (see § 3.2.2.1). If this check is successful, then this number is used by the network. For complete calling number, this validity check may determine whether the number is allocated to the access; for partially provided numbers this check may, for example, determine whether the digits are within the allocated range.

~~If the called party subscribes to Calling Line Identification Presentation and the calling party has CLIR activated, the called party shall receive an indication that the presentation of the calling party number is restricted.~~

##### 3.2.2.1 *Special connection arrangement*

Where the public network operator has confidence that the correct information will be provided by the calling customer, a special connection arrangement between the customer and the public network [e.g. for calls which originate from another private automatic branch exchange (PABX) in a private network] can be offered. Note that the details of such a special connection arrangement are beyond the scope of this Recommendation.

When this special arrangement applies, a full national or international ISDN number will be passed to the public network as the calling party identity. No screening will be required, and the public network will add country codes as required when crossing international boundaries, etc.

### 3.3 *Exceptional procedures*

#### 3.3.1 ~~*Activation/deactivation/registration*~~

~~———— None identified.~~

#### 3.3.2 *Invocation and operation*

If the network check on a calling party provided number is unsuccessful, the network will use the default number as the number of the calling party.

There are two cases where the calling party number is not presented to the called party:

- i) when the calling party has an arrangement (see definition of Calling Line Identification Restriction) whereby presentation of his number is not allowed; and
- ii) when the calling party number is not available, e.g. due to interworking with the analogue public switched telephone network (PSTN).

In such cases no number is presented to the called party, but he shall receive an indication that the number of the calling party is unavailable.

In case i), the user ~~will~~may be given an indication that the presentation of number is restricted.

In case ii), the user will be given an indication that the number is not available, for example because of interworking, or be given an indication the presentation of the number is restricted.

### 3.4 *Alternative procedures*

#### 3.4.1 *Activation/deactivation/registration*

~~———— None identified.~~

#### 3.4.2 *Invocation and operation*

~~———— In some cases where a calling party has an arrangement such that presentation of his number is not allowed, there may be certain categories of called party that have the ability to override this restriction and have the calling number presented. This function is a national option.~~

~~———— Problems may occur when the calling party does not belong to the same network as the called party and in the calling party's network the override category does not exist, while in the called party's network it does. A problem occurs when a calling party who restricts presentation and assumes that his number is never presented, makes a call to a called party who is in the override category.~~

~~———— The cases where the override category is applied is a national matter. Depending on bilateral agreement about the application of the override category in country B, and the "presentation not allowed" arrangement of the calling party in country A, country A may or may not deliver the calling line identification to country B. Agreements are also needed with any transit network.~~

~~———— Certain countries may define categories of subscribers that have the ability to override the presentation restriction and have the calling party's ISDN number and any sub-address presented (e.g. the police).~~

~~———— The ability to have such override category is a national matter.~~

~~———— When a call originates in one ISDN and terminates in another ISDN and CLIR is applied, the rules and regulations of the destination network (the host network) should apply. For example, if the override category is not applicable in the originating network but it is in the destination network, a call with CLIR applied can still be overridden in the destination network, whenever information on the calling line is available for this network.~~

## 4 **Network capabilities for charging**

This Recommendation does not cover charging principles. ~~Future Recommendations in the D-Series are expected to contain that information.~~

It shall be possible to charge the subscriber accurately for the service.

## 5 **Interworking requirements**

On calls incoming from some non-ISDN networks, the calling number may be delivered to the destination ISDN without the ability to indicate whether presentation is allowed or not. How the ISDN should behave in this case is for further study.

From some other non-ISDN networks, no calling party number may be available to the ISDN and therefore, the calling party number cannot be given to the called party who has been provided with CLIP. In this situation, a "number

unavailable” indication, ~~may be~~ is given to the called party. If a “number unavailable” indication is given to the called party, the called party will be clearly informed that the calling party number is not available as a result of network interworking.

As a national option, the originating network shall have the possibility to restrict any information identifying the calling party from being forwarded to another network. If a destination network receives a calling party ISDN number without any indication of presentation allowed or restricted, the destination network (host network) will act according to its own rules and regulations.

On calls to or via non-ISDNs, it cannot be assured that a CLIR indication can be carried to the destination network. As a national option, the originating network shall have the possibility to restrict any information identifying the calling party from being forwarded to the destination network when CLIR is applicable. If a network receives a calling party ISDN number without any indication of presentation allowed or restricted, the destination network (the host network) will act according to its rules and regulations as it received 'restricted' indication.

## 6 Interaction with other supplementary services

### 6.1 *Call Waiting*

~~No impact, i.e. neither supplementary service affects the operation of the other supplementary service.~~

~~If the called user(s) at B is (are) given a call waiting indication, and has (have) subscribed to the CLIP service, then the calling line identification shall be presented to the users at B at the time the call waiting indication is given.~~

~~Assume that a call from a user at C, who has subscribed to the CLIR service, invokes Call Waiting at a user(s) at B. The user(s) at B would receive a call waiting indication but would not receive the calling user at C when the call waiting indication is given.~~

This section is not applicable to this specification.

### 6.2 *Call Transfer*

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

This section is not applicable to this specification.

### 6.3 *Connected Line Identification Presentation*

~~No impact, i.e. neither supplementary service affects the operation of the other supplementary service.~~

This section is not applicable to this specification.

### 6.4 *Connected Line Identification Restriction*

~~No impact, i.e. neither supplementary service affects the operation of the other supplementary service.~~

This section is not applicable to this specification.

### 6.5 *Calling Line Identification Presentation*

The calling line identifications will not be presented if the calling user has an arrangement to inhibit the presentation of his number to the called party.

The only occasion when a user subscribing to CLIP can take precedence over CLIR is when the user is in an override category. ~~This is a national option.~~

### 6.6 *Calling Line Identification Restriction*

The calling line identification will not be presented if the calling user has an arrangement to inhibit the presentation of his number to the called party. The only occasion when a user subscribing to CLIP can take precedence over Calling Line Identification Restriction (CLIR) is when the user has an override category. ~~This is a national option.~~

### 6.7 *Closed User Group*

~~No impact, i.e. neither supplementary service affects the operation of the other supplementary service.~~

This section is not applicable to this specification.

### 6.8 *Conference Calling*

~~Any party that has subscribed to CLIP will receive the calling line identification of a conference controller when:~~

~~— the party is to be included as a “new party” during the invocation of a conference call; or~~

~~— the party is being added to an existing conference call.~~

This section is not applicable to this specification.

### 6.9 *Direct-Dialling-In*

No impact at the calling party's user-network interface, except that the network may be supplied with a calling party number as a result of DDI applying either:

- i) at that interface, in which case a partial or full calling party number may be supplied and may be subject to screening by the network; or
- ii) (subject to the existence of a special arrangement for not screening) at that interface or at another interface to which the same customer's equipment (e.g. a private network) is attached, in which case a full (national or international) number may be supplied.

At the called party's interface there is no impact, i.e. neither supplementary service affects the operation of the other supplementary service.

### 6.10 *Call diversion services*

If an incoming call to the party to which CLIP has been provided has already been forwarded, then the calling party's number should be the number of the original calling party.

#### 6.10.1 *Call Forwarding Busy*

*Calling user:* when CLIR is applicable and activated, the calling line identification will not be presented to the forwarded-to user unless the forwarded-to user is in the override category. ~~The latter is a national option.~~

*Called user:* if subscribed to, the called user can receive the calling line identification of all calls which have been forwarded.

Forwarded-to users, who have subscribed to CLIP, may receive the calling user's number if the calling user has not subscribed/invoked CLIR.

#### 6.10.2 *Call Forwarding No Reply/Call Forwarding Not Reachable*

*Calling user:* when CLIR is applicable and activated, the calling line identification will not be presented to the forwarded-to user unless the forwarded-to user is in the override category. ~~The latter is a national option.~~

*Called user:* if subscribed to, the called user can receive the calling line identification of all calls which have been forwarded.

Forwarded-to users, who have subscribed to CLIP may receive the calling user's number if the calling user has not subscribed/invoked CLIR.

#### 6.10.3 *Call Forwarding Unconditional*

*Calling user:* when CLIR is applicable and activated, the calling line identification will not be presented to the forwarded-to user unless the forwarded-to user is in the override category. ~~The latter is a national option.~~

*Called user:* if subscribed to, the called user can receive the calling line identification of all calls which have been forwarded.

Forwarded-to users, who have subscribed to CLIP may receive the calling user's number if the calling user has not subscribed/invoked CLIR.

#### 6.10.4 *Call Deflection*

~~Same as Call Forwarding Unconditional (see § 6.10.3).~~

This section is not applicable to this specification.

#### 6.11 *Line Hunting*

~~No impact, i.e. neither supplementary service affects the operation of the other supplementary service.~~

~~———— The Line Hunting service occurs before CLIP. The Line Hunting service would first provide a selection of an interface for presentation of a call. Once the service selects an interface, normal call processing would occur including the presentation of the calling party's number to a selected interface who has subscribed to CLIP.~~

This section is not applicable to this specification.

#### 6.12 *Three-Party Service*

~~———— No impact, i.e. neither supplementary service affects the operation of the other supplementary service.~~

This section is not applicable to this specification.

#### 6.13 *User-to-User Signalling*

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

#### 6.14 *Multiple Subscriber Number*

~~———— If MSN is subscribed to by the calling party, then this party may provide the appropriate calling party MSN digits, or the full ISDN number on outgoing calls. If no arrangement has been made with the calling subscriber, the network shall check the user provided calling party number information for validity on the corresponding access. If the check fails, or if no calling number information is provided by the user, then the network should apply the default ISDN number of the calling party's access.~~

~~———— At the called party's interface, there is no impact, i.e. neither supplementary service affects the operation of the other supplementary service.~~

This section is not applicable to this specification.

#### 6.15 *Call Hold*

~~No impact, i.e. neither supplementary service affects the operation of the other supplementary service.~~

This section is not applicable to this specification.

#### 6.16 *Advice of Charge*

~~No impact, i.e. neither supplementary service affects the operation of the other supplementary service.~~

This section is not applicable to this specification.

#### 6.17 *Multi-level Precedence and Preemption*

~~No impact, i.e. neither supplementary service affects the operation of the other supplementary service.~~

This section is not applicable to this specification.

#### 6.18 *Priority*

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

This section is not applicable to this specification.

6.19 *Malicious Call Identification*

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

This section is not applicable to this specification.

6.20 *Outgoing Call Barring*

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

This section is not applicable to this specification.

6.21 *Reverse Charging*

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

This section is not applicable to this specification.

6.22 *Sub-addressing*

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

*Note* – If the called user subscribes to CLIP, the calling party sub-address, if provided by the calling user, and the calling party number are presented to the called user.

## 7 **Dynamic description**

———— The dynamic description for this service is shown in Figure 1/I.251.3.

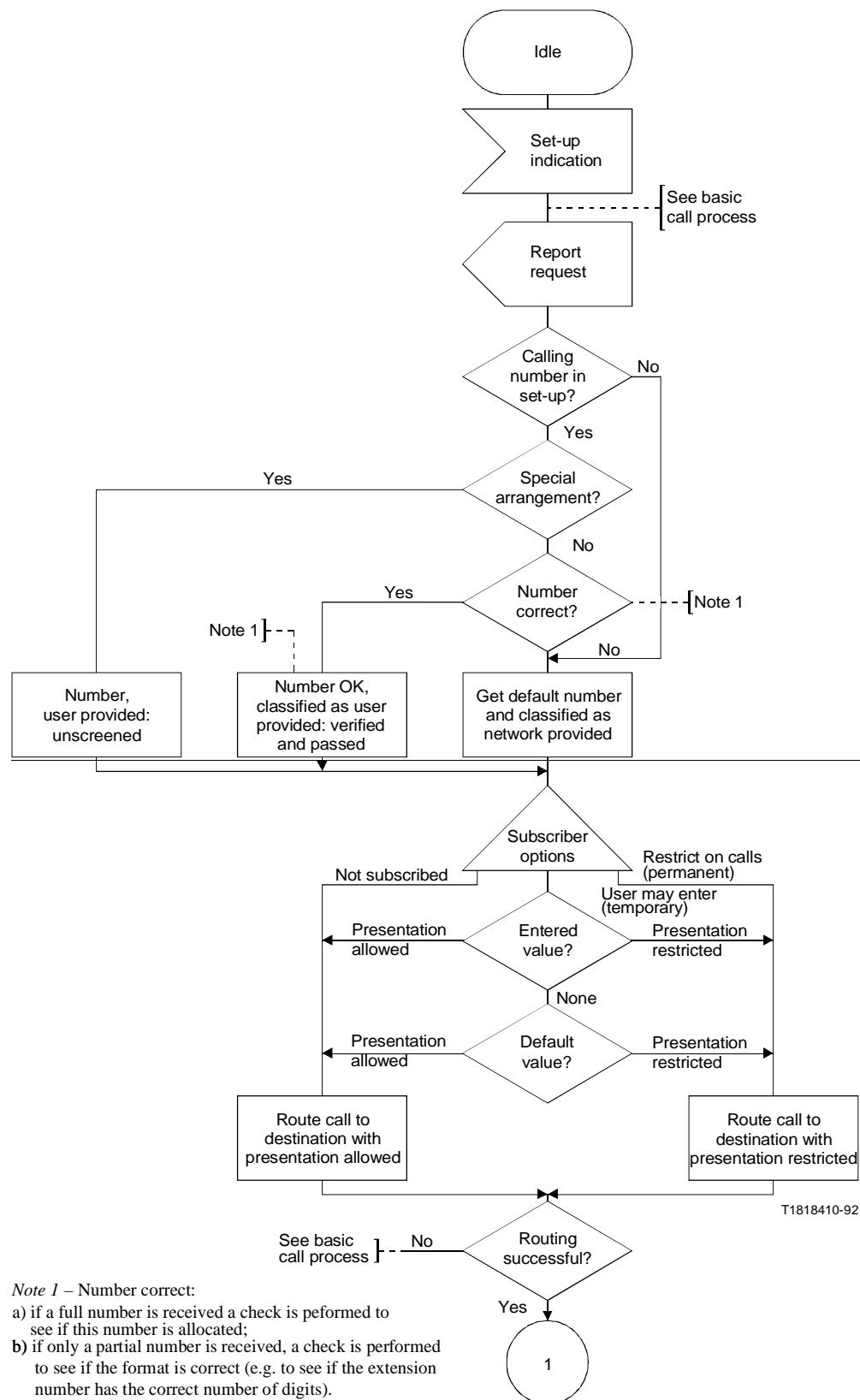
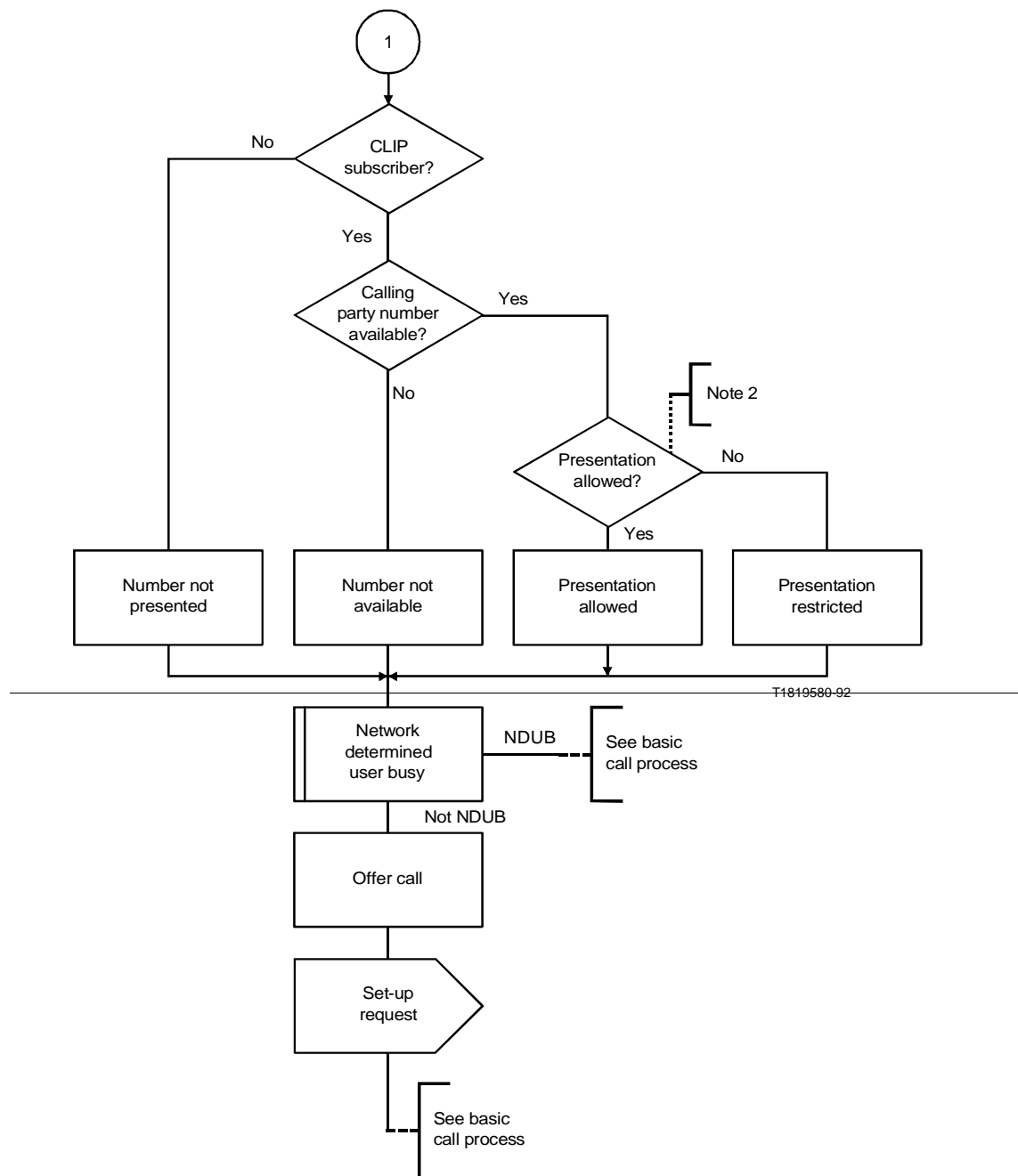


FIGURE 1/I.251.3 (sheet 1 of 2)

Overall SDL diagram for calling line identification presentation/restriction





NDUB Network determined user busy

*Note 2* – In some Administrations certain categories of customers (e.g., the police) may have the ability to override the restriction of presentation.

FIGURE 1/I.251.3 (sheet 2 of 2)

**Overall SDL diagram for calling line identification presentation/restriction**

## ANNEX A

(to Recommendation I.251.3 Part E.5)

**Calling line identification presentation**A.1 — *Scope*

— This annex describes additional features of the CLIP supplementary service that may be provided by some public ISDN networks as a national option.

— These additional features shall have no impact and shall place no requirement whatsoever on the provision and operation of the CLIP supplementary service defined in this Recommendation by the ISDN networks that do not support these additional features, or on the interchangeability of terminals.

A.2 — *Description*

— Some public networks may deliver two calling numbers at the called subscriber's user-to-network interface possibly as a subscription option. When two numbers are available and the called user subscribes to two number delivery, then a "network provided" number will be presented together with a user-provided number marked "user provided, not screened". In addition, some networks may provide a "network provided" number together with a "user provided, verified and failed" number. The order of the numbers will not be specified since each number is uniquely identifiable.

— If two numbers are available, but only a single number is to be delivered at the called user-to-network interface (e.g. the called user does not subscribe to two number delivery, but subscribes to single number delivery), the "user-provided" number will be presented if the "special arrangement" of § 3.2.2 is in force; otherwise the "network-provided" number will be presented.

— Principles for interaction with other supplementary services are those of § 6 of this Recommendation with the following characteristics:

- i) — calling line identification restriction when subscribed-to/invoked at the calling side applies for both network provided and user provided numbers;
- ii) — when a call has been forwarded/diverted and the forwarded-to/diverted-to user has been provided with CLIP, that user shall receive the original user and network provided numbers if this calling user has not subscribed-to/invoked CLIR.

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**THE AUSTRALIAN COMMUNICATIONS INDUSTRY FORUM  
LTD**

Level 9, 32 Walker Street  
North Sydney NSW 2060

Correspondence: PO Box 444  
Milsons Point NSW 1565

Telephone: (02) 9959 9111  
Facsimile: (02) 9954 6136

E-mail: [acif@acif.org.au](mailto:acif@acif.org.au)

Web Site: <http://www.acif.org.au/>