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CCITT

THE INTERNATIONAL
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I.251.4

(11/1988)

SERIES I: INTEGRATED SERVICES DIGITAL
NETWORK (ISDN)

Service capabilities – Supplementary services in ISDN

**NUMBER IDENTIFICATION SUPPLEMENTARY
SERVICES: CALLING LINE IDENTIFICATION
RESTRICTION**

Reedition of CCITT Recommendation I.251.4 published in
the Blue Book, Fascicle III.7 (1988)

NOTES

1 CCITT Recommendation I.251.4 was published in Fascicle III.7 of the *Blue Book*. This file is an extract from the *Blue Book*. While the presentation and layout of the text might be slightly different from the *Blue Book* version, the contents of the file are identical to the *Blue Book* version and copyright conditions remain unchanged (see below).

2 In this Recommendation, the expression “Administration” is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

Recommendation I.251.4

NUMBER IDENTIFICATION SUPPLEMENTARY SERVICES: CALLING LINE IDENTIFICATION RESTRICTION

(Melbourne, 1988)

4 I.251.4 – Calling Line Identification Restriction

4.1 Definition

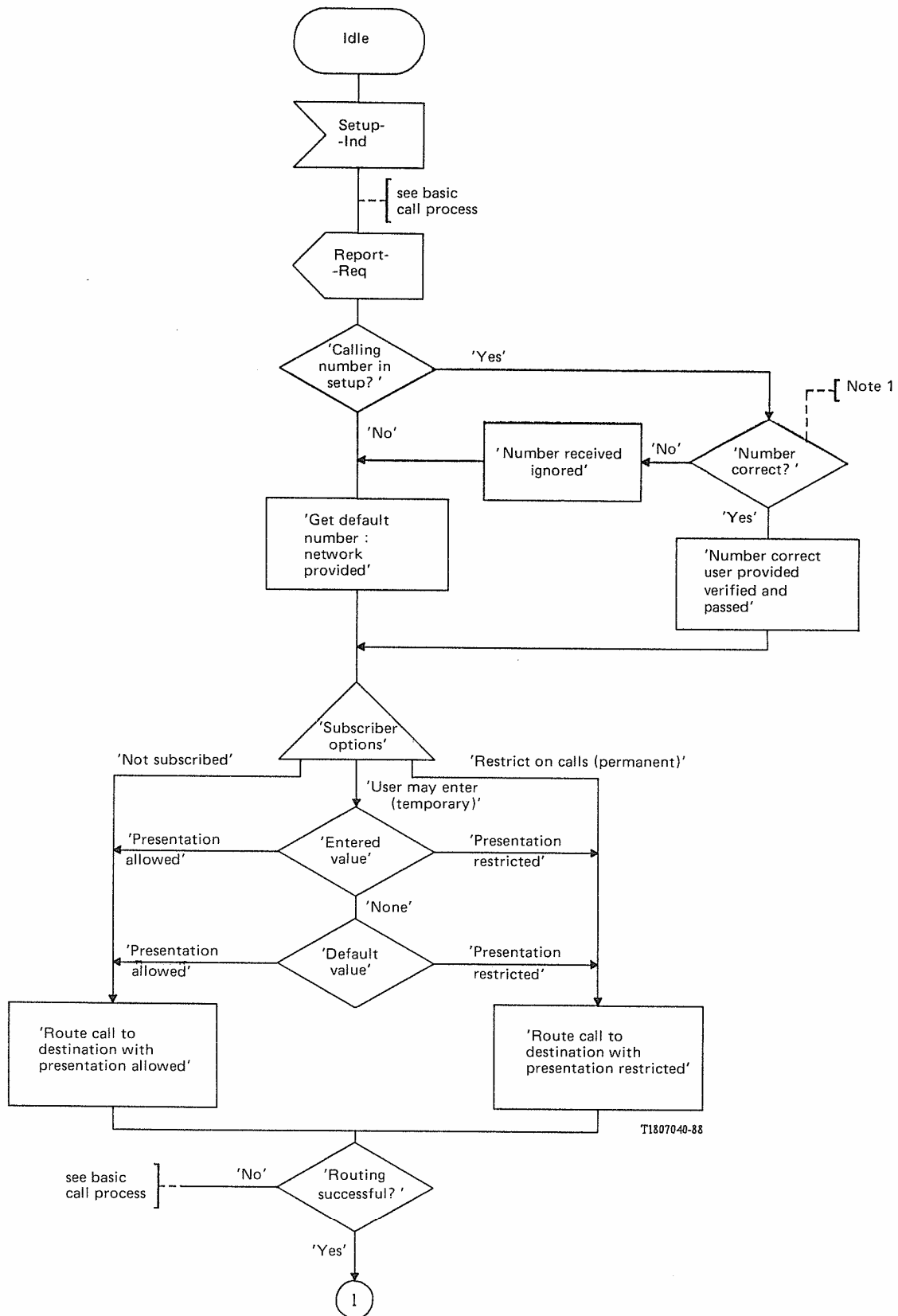
Calling Line Identification Restriction (CLIR) is a supplementary service offered to the calling party to restrict presentation of the calling party's ISDN number and sub-address to the called party.

4.2 Description

4.2.1 General description

When 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.

Note – When CLIR is subscribed to, some network providers may not wish to send the originating identity of the calling customer to other network providers.

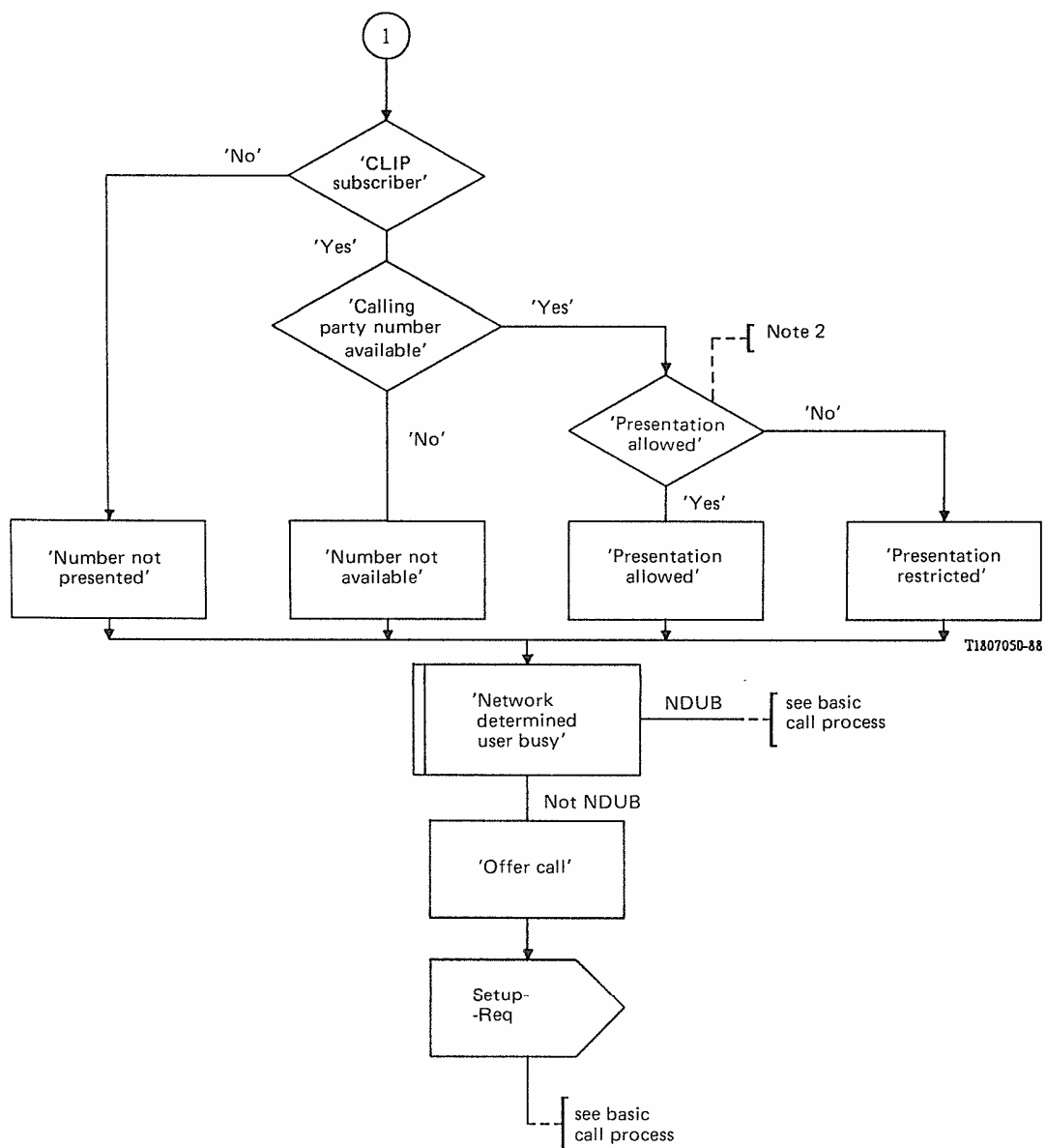


Note 1 – Number correct:

- a) if a full number is received, a check is performed to see if this number is allocated;
- b) if only a partial number is received, a check is performed to see if the format is correct (e.g., to see if the extension number has the correct number of digits).

FIGURE 1/I.251 (sheet 1 of 2)

Overall SDL diagram for calling line identification presentation/restriction



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 (sheet 2 of 2)

Overall SDL diagram for calling line identification presentation/restriction

4.2.2 Specific terminology

None identified.

4.2.3 Qualifications on the applicability to telecommunication services

None identified, i.e., this supplementary service is applicable to all telecommunication services.

4.3 Procedures

4.3.1 Provision/withdrawal

CLIR can be provided on a subscription basis or can 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:

<i>Subscription option</i>	<i>Values</i>
CLIR mode	<ul style="list-style-type: none"> – permanent (active for all calls) – temporary (specified by user per call)
Default (only for temporary mode)	<ul style="list-style-type: none"> – 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.

4.3.2 *Normal procedures*

4.3.2.1 *Activation/deactivation/registration*

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.

4.3.2.2 *Invocation and operation*

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 calling party number is not available.

4.3.3 *Exceptional procedures*

4.3.3.1 *Activation/deactivation/registration*

No exceptional procedures identified.

4.3.3.2 *Invocation and operation*

No exceptional procedures identified.

4.3.4 *Alternative procedures*

4.3.4.1 *Activation/deactivation/registration*

No alternative procedures identified.

4.3.4.2 *Invocation and operation*

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 an override option 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.

4.4 *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.

4.5 *Interworking requirements*

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.

4.6 *Interaction with other supplementary services*

4.6.1 *Call Waiting*

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

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 number of the calling user at C when the call waiting indication is given.

4.6.2 *Call Transfer*

Assume that a user A has an established call with user B and wishes to transfer this call with user B to user C. If user A has subscribed to CLIR, then user C shall not receive a calling number when user A invokes any call transfer procedure. If user B has subscribed to CLIR, then user C shall not receive a calling number during the transfer of user B to user C.

4.6.3 *Connected Line Identification Presentation*

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

4.6.4 *Connected Line Identification Restriction*

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

4.6.5 *Calling Line Identification Presentation*

CLIR will take precedence over Calling Line Identification Presentation (CLIP).

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

4.6.6 *Calling Line Identification Restriction*

Not relevant.

4.6.7 *Closed User Group*

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

4.6.8 *Conference Calling*

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

4.6.9 *Direct-Dialling-In*

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

4.6.10 *Call Diversion (i.e. Call Forwarding) services*

4.6.10.1 *Call Forwarding Busy*

When CLIR is applicable and activated, the calling party's ISDN-number will not be presented to the "forwarded-to" user unless this user is in an override category. The latter is a national option.

4.6.10.2 *Call Forwarding No Reply*

When CLIR is applicable and activated, the calling party's ISDN-number will not be presented to the "forwarded-to" user unless this user is in an override category. The latter is a national option.

4.6.10.3 *Call Forwarding Unconditional*

When CLIR is applicable and activated, the calling party's ISDN-number will not be presented to the "forwarded-to" user unless this user is in an override category. The latter is a national option.

4.6.11 *Line Hunting*

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

4.6.12 *Three-Party Service*

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

4.6.13 *User-to-User Signalling*

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

4.6.14 *Multiple Subscriber Number*

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

4.6.15 *Call Hold*

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

4.6.16 *Advice of Charge*

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

4.7 *Dynamic description*

The dynamic description for this service is shown in Figure 1/I.251.

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