INTERNATIONAL TELECOMMUNICATION UNION

CCITT I.251.4 (rev.1)

THE INTERNATIONAL
TELEGRAPH AND TELEPHONE
CONSULTATIVE COMMITTEE

INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

GENERAL STRUCTURE AND SERVICE CAPABILITIES

CALLING LINE IDENTIFICATION RESTRICTION

Recommendation I.251.4 (rev.1)

Geneva, 1992

FOREWORD

The CCITT (the International Telegraph and Telephone Consultative Committee) is a permanent organ of the International Telecommunication Union (ITU). CCITT is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The Plenary Assembly of CCITT which meets every four years, establishes the topics for study and approves Recommendations prepared by its Study Groups. The approval of Recommendations by the members of CCITT between Plenary Assemblies is covered by the procedure laid down in CCITT Resolution No. 2 (Melbourne, 1988).

Recommendation I.251.4 was prepared by Study Group I and was approved under the Resolution No. 2 procedure on the 4th of August 1992.

CCITT NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication Administration and a recognized private operating agency.

© ITU 1992

All rights reserved. No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the ITU.

Recommendation I.251.4

CALLING LINE IDENTIFICATION RESTRICTION

(revised 1992)

1 Definition

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 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.

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.

2.2 *Specific terminology*

None identified.

2.3 *Qualifications on the applicability to telecommunication services*

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

3 Procedures

3.1 *Provision/withdrawal*

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*

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*

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.

3.3 *Exceptional procedures*

3.3.1 *Activation/deactivation/registration*

No exceptional procedures identified.

3.3.2 *Invocation and operation*

No exceptional procedures identified.

3.4 *Alternative procedures*

3.4.1 *Activation/deactivation/registration*

No alternative procedures identified.

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 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 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.

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.

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.

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.

6.3 *Connected Line Identification Presentation*

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

6.4 *Connected Line Identification Restriction*

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

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*

Not applicable.

6.7 *Closed User Group*

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

6.8 *Conference Call*

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

6.9 *Direct-Dialling-In*

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

6.10 *Call diversion services*

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.

6.10.2 *Call Forwarding No Reply*

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.

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.

6.10.4 *Call Deflection*

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

6.11 *Line Hunting*

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

6.12 *Three-Party Service*

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

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*

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

6.15 *Call Hold*

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

6.16 *Advice of Charge*

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

6.17 *Multi-level Precedence and Preemption*

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

6.18 *Priority*

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

6.19 *Malicious Call Identification*

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

6.20 *Outgoing Call Barring*

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

6.21 *Reverse Charging*

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

6.22 *Sub-addressing*

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

7 Dynamic description

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