INTERNATIONAL TELECOMMUNICATION UNION

CCITT

THE INTERNATIONAL
TELEGRAPH AND TELEPHONE
CONSULTATIVE COMMITTEE

I.251.1

(11/1988)

SERIES I: INTEGRATED SERVICES DIGITAL
NETWORK (ISDN)

Service capabilities – Supplementary services in ISDN

NUMBER IDENTIFICATION SUPPLEMENTARY SERVICES: DIRECT-DIALLING-IN

Reedition of CCITT Recommendation I.251.1 published in
the Blue Book, Fascicle III.7 (1988)

NOTES

1   CCITT Recommendation I.251.1 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.251.1

NUMBER IDENTIFICATION SUPPLEMENTARY SERVICES: DIRECT-DIALLING-IN

(Melbourne, 1988)

The purpose of this Recommendation is to provide the stage 1 description of the method defined in Recommendation I.130 using the means given in Recommendation I.210.

Supplementary services are described by a prose definition and description (step 1.1) and by a dynamic description (step 1.3). The application of the attribute technique (step 1.2), as defined in Recommendation I.140, for supplementary services is for further study.

This Recommendation describes the following Number Identification supplementary services:

I.251.1   Direct-Dialling-In (DDI)

I.251.2   Multiple Subscriber Number (MSN)

I.251.3   Calling Line Identification Presentation (CLIP)

I.251.4   Calling Line Identification Restriction (CLIR)

I.251.5   Connected Line Identification Presentation (COLP)

I.251.6   Connected Line Identification Restriction (COLR)

I.251.7   Malicious Call Identification (MCI) (Note)

I.251.8   Sub-addressing (SUB) (Note)

Note – This service having been identified now requires further study, its description is not yet included.

1   I.251.1   –   Direct-Dialling-In

1.1   *Definition*

Direct-Dialling-In (DDI) enables a user to directly call another user on an integrated services private branch exchange (ISPBX) or other private system without attendant intervention.

1.2   *Description*

1.2.1   *General description*

A part of the ISDN number, which is significant to the called user, is passed to that user during call establishment. This supplementary service is based on the use of the ISDN number and does not include sub-addressing.

Note 1 – A similar method to select a terminal on a passive bus is described in the supplementary service MSN.

Note 2 – The caller may or may not find the ISDN number in the public directory.

1.2.2   *Specific terminology*

None.

1.2.3   *Qualifications on the applicability to telecommunication services*

No restrictions.

1.3   *Procedures*

1.3.1   *Provision/withdrawal*

This service shall be provided/withdrawn after pre-arrangement with the service provider. The service provider shall allocate a set of ISDN numbers.

1.3.2   *Normal procedures*

1.3.2.1   *Activation/deactivation/registration*

Activation through subscription.

1.3.2.2   *Invocation and operation*

Call initiation procedures are the same as for the basic service. The calling and called users perceive the same completion procedures as for the basic service, without attendant intervention. Upon answer, the calling user is connected to the called user designated by the ISDN number.

Note – When the connection from the caller to the ISPBX is established, the called ISPBX might use the connection for call progress signalling transmission.

1.3.3   *Exceptional procedures*

1.3.3.1   *Activation/deactivation/registration*

Not applicable.

1.3.3.2   *Invocation and operation*

If the called user is busy or does not answer, the procedures for basic calls will apply.

If a call is made by sending incomplete address information, the call will be released by time supervision within the public exchange. A corresponding time supervision within the ISPBX may also be convenient.

1.3.4   *Alternative procedures*

1.3.4.1   *Activation/deactivation/registration*

None identified.

1.3.4.2   *Invocation and operation*

None identified.

1.4   *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.

1.5   *Interworking requirements*

No problems identified.

1.6   *Interaction with other supplementary services*

1.6.1   *Call Waiting*

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

1.6.2   *Call Transfer*

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

1.6.3   *Connected Line Identification Presentation*

For further study.

1.6.4   *Connected Line Identification Restriction*

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

1.6.5   *Calling Line Identification Presentation*

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

1.6.6   *Calling Line Identification Restriction*

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

1.6.7   *Closed User Group*

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

1.6.8   *Conference Calling*

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

1.6.9   *Direct-Dialling-In*

Not applicable.

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

1.6.10.1   *Call Forwarding Busy*

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

1.6.10.2   *Call Forwarding No Reply*

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

1.6.10.3   *Call Forwarding Unconditional*

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

1.6.11   *Line Hunting*

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

1.6.12   *Three-Party Service*

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

1.6.13   *User-to-User Signalling*

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

1.6.14   *Multiple Subscriber Number*

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

1.6.15   *Call Hold*

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

1.6.16   *Advice of Charge*

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

1.7   *Dynamic description*

The dynamic description is as for basic services.

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