



INTERNATIONAL TELECOMMUNICATION UNION

CCITT

THE INTERNATIONAL
TELEGRAPH AND TELEPHONE
CONSULTATIVE COMMITTEE

Q.81

(02/92)

FUNCTIONS AND INFORMATION FLOWS FOR SERVICES IN THE ISDN

STAGE 2 DESCRIPTION FOR NUMBER IDENTIFICATION SUPPLEMENTARY SERVICES

SECTION 2 – MULTIPLE SUBSCRIBER NUMBER

SECTION 8 – SUB-ADDRESSING (SUB)

Addenda to:
Recommendation Q.81



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.

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Recommendation Q.81, § 2 and 8 was prepared by Study Group XI and was approved under the Resolution No. 2 procedure on the 4th of February 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.

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STAGE 2 DESCRIPTION FOR NUMBER IDENTIFICATION SUPPLEMENTARY SERVICES

2 Multiple Subscriber Number

2.1 Scope

This Recommendation defines the stage 2 of the Multiple Subscriber Number (MSN) supplementary service for the integrated services digital network (ISDN) as provided by telecommunications operators. Stage 2 identifies the functional capabilities and the information flows needed to support the stage 1 service description. The stage 2 description also identifies user operations not directly associated with a call (see Recommendation I.130 [1]).

This Recommendation is specified according to the methodology specified in Recommendation Q.65 [2].

This Recommendation does not formally describe the relationship between this supplementary service and the basic call, but where possible this information is included for guidance.

In addition, this Recommendation does not specify the requirements where the service is provided to the user via a private ISDN. This Recommendation does not specify the requirements for the allocation of defined functional entities within a private ISDN, it does, however, define which functional entities may be allocated to a private ISDN.

This Recommendation does not specify the additional requirements where the service is provided to the user via a telecommunications network that is not an ISDN.

The MSN supplementary service provides the possibility for assigning multiple numbers to a single public or private access.

Note – This allows e.g.:

- 1) a calling user to select, via the public network, one or multiple distinct terminals out of a multiple choice;
- 2) to identify the terminal to the network for the application of other supplementary services.

It is considered:

- that in the case of a basic access some service providers may not have knowledge or control over what is connected, e.g. a private ISDN or a terminal configuration;
- that service providers have differing numbering methods.

The MSN supplementary service is applicable to all telecommunication services.

This Recommendation is applicable to the stage 3 Recommendations for the ISDN MSN supplementary service as defined in Recommendation I.130 [1].

2.2 References

This Recommendation incorporates, by dated or undated reference, provisions from other publications. These references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to, or revisions of any of these publications apply to this Recommendation only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] CCITT Rec. I.130 – *Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN*, 1988.
- [2] CCITT Rec. Q.65 – *Stage 2 of the method for the characterization of services supported by an ISDN*, 1988.
- [3] CCITT Rec. I.112 – *Vocabulary of terms for ISDNs*, 1988.
- [4] CCITT Rec. E.164 – *Numbering plan for the ISDN era*, 1991.
- [5] CCITT Rec. Q.71¹⁾ – *ISDN 64 kbit/s circuit mode switched bearer services*, 1993.
- [6] CCITT Rec. I.210 – *Principles of telecommunication services supported by an ISDN and the means used to describe them*, 1988.
- [7] CCITT Rec. Z.100 – *Specification and description language (SDL)*, 1988.

2.3 Definitions

For the purposes of this Recommendation the following definitions apply:

Integrated Services Digital network (ISDN)

See Recommendation I.112 [3], § 2.3, definition 308.

Service: telecommunications service

See Recommendation I.112 [3], § 2.2, definition 201.

Supplementary service

See Recommendation I.210 [6], § 2.4.

ISDN number

A number conforming to the numbering plan and structure specified in Recommendation E.164 [4].

2.4 Symbols and abbreviations

CC	Call control
CCA	Call control agent
FE	Functional entity
FEA	Functional entity action
ISDN	Integrated services digital network
LE	Local exchange
MSN	Multiple subscriber number
SDL	Specification and description language
TE	Terminal equipment.

2.5 Description

Not applicable.

¹⁾ Recommendation Q.71 will be submitted for approval at the CCITT Plenary Assembly in March, 1993.