



INTERNATIONAL TELECOMMUNICATION UNION

CCITT

THE INTERNATIONAL
TELEGRAPH AND TELEPHONE
CONSULTATIVE COMMITTEE

F.812

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**TELEMATIC, DATA TRANSMISSION,
ISDN BROADBAND, UNIVERSAL,
PERSONAL TELECOMMUNICATIONS
AND TELECONFERENCE SERVICES
OPERATIONS AND QUALITY OF SERVICE**

**BROADBAND CONNECTIONLESS DATA
BEARER SERVICE**



Recommendation F.812

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 F.812 was prepared by Study Group I and was approved under the Resolution No. 2 procedure on the 4th of August 1992.

CCITT NOTES

- 1) In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized private operating agency.
- 2) A list of abbreviations used in this Recommendation can be found in Annex B.

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Recommendation F.812**BROADBAND CONNECTIONLESS DATA BEARER SERVICE***(1992)***1 Definition**

A **B-ISDN connectionless data service** is defined as a service which allows the transfer of information among service subscribers without the need for end-to-end call establishment procedures between users.

2 Description**2.1 General description**

This is a public packet-switched service that provides for the transfer of variable-length data units at high speed without the need for call establishment procedures between users. These data units can be transferred from a single source to a single destination, or from a single source to multiple destinations. Each data unit includes a source address validated by the network. One generic feature of a B-ISDN connectionless bearer service is that it may include broadcasting capabilities.

The B-ISDN connectionless data bearer service uses addresses based on the E.164 ISDN numbering plan.

For multicast communication an address scheme using group addressing is required. Group addressing is a mechanism which allows for the transmission of the same data unit to several intended recipients. A group address is an address used to represent the set of individual addresses that identify the destinations of a group addressed data unit.

The source address used in a group addressed data unit may be one of the individual addresses.

The B-ISDN connectionless data bearer service is designed such that, under normal conditions, subscriber's end-to-end protocols would not require changes. This allows user's communications architectures as well as the applications built on top of the connectionless service to remain intact.

This service is offered on the B-ISDN on ATM connections between the subscriber and a connectionless service node named "connectionless server", as it is defined in Recommendation I.211.

This service will be supported on the B-ISDN user-network interface (UNI) based on asynchronous transfer mode (ATM).

2.2 Specific terminology**2.2.1 Point-to-point**

Refer to Recommendation I.210.

2.2.2 Broadcast

Unidirectional communication from a single source entity to an unlimited number of unspecified destination entities.

2.2.3 Multicast

Unidirectional communication from a single source entity to a limited number of specified destination entities.