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TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

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**SERIES X: DATA NETWORKS AND OPEN SYSTEM
COMMUNICATION**

Interworking between networks – General

**General arrangements for interworking between
integrated services digital networks (ISDNs) for
the provision of data transmission services**

ITU-T Recommendation X.320

(Previously CCITT Recommendation)

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FOREWORD

The ITU-T (Telecommunication Standardization Sector) is a permanent organ of the International Telecommunication Union (ITU). The ITU-T 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 World Telecommunication Standardization Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1 (Helsinki, March 1-12, 1993).

ITU-T Recommendation X.320, was revised by ITU-T Study Group 7 (1993-1996) and was approved under the WTSC Resolution No. 1 procedure on the 5th of October 1996.

NOTE

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

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SUMMARY

This Recommendation defines general arrangements for the interworking between ISDNs for the provision of data transmission services. These arrangements are applicable only to the interworking involving transmission capabilities and not to interworking involving communication capabilities as described in Recommendation X.300.

INTRODUCTION

This Recommendation is one of a set of Recommendations produced to facilitate considerations of interworking between networks. It is based on Recommendation X.300 which defines the general principles for interworking between public networks, and between public networks and other networks for the provision of data transmission services. Recommendation X.300 indicates in particular how collections of physical equipment can be represented as "subnetworks" for consideration in interworking situations.

This Recommendation describes the interworking arrangements between ISDNs for the provision of data transmission services.

Recommendation X.320

GENERAL ARRANGEMENTS FOR INTERWORKING BETWEEN INTEGRATED SERVICES DIGITAL NETWORKS (ISDNs) FOR THE PROVISION OF DATA TRANSMISSION SERVICES

(Melbourne, 1988; revised in 1996)

1 Scope

The purpose of this Recommendation is to describe the general arrangements for the interworking between ISDNs for the provision of data transmission services. These arrangements are applicable only to the interworking involving transmission capabilities, and not to interworking involving communication capabilities as described in Recommendation X.300.

NOTE – The typing of subnetworks in this Recommendation is based on the support for the OSI connection-mode network service and is therefore only valid in this context.

2 References

The following Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; all users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendation is regularly published.

- CCITT Recommendation E.164 (1991), *Numbering plan for the ISDN era*.
- ITU-T Recommendation E.166/X.122 (1996), *Numbering plan interworking for the E.164 and X.121 numbering plans*.
- I.230-Series Recommendations, *Integrated services digital network – Service capabilities – Bearer services supported by an ISDN*.
- I.250-Series Recommendations, *Integrated services digital network – Service capabilities – Supplementary services in ISDN*.
- ITU-T Recommendation I.500 (1993), *General structure of the ISDN interworking Recommendations*.
- ITU-T Recommendation X.1 (1996), *International user classes of service in, and categories of access to, public data networks and Integrated Services Digital Networks (ISDNs)*.
- ITU-T Recommendation X.2 (1996), *International data transmission services and optional user facilities in public data networks and ISDNs*.
- ITU-T Recommendation X.10 (1993), *Categories of access for Data Terminal Equipment (DTE) to public data transmission services*.
- ITU-T Recommendation X.31 (1995), *Support of packet mode terminal equipment by an ISDN*.
- ITU-T Recommendation X.33 (1996), *Access to packet switched data transmission services via frame relaying data transmission services*.
- ITU-T Recommendation X.75 (1996), *Packet-switched signalling system between public networks providing data transmission services*.
- ITU-T Recommendation X.76 (1995), *Network-to-network interface between public data networks providing the frame relay data transmission service*.
- ITU-T Recommendation X.121 (1996), *International numbering plan for public data networks*.



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