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**Information technology — Telecommunications
and information exchange between systems —
Provision of the OSI connection-mode network
service by packet mode terminal equipment
connected to an integrated services digital
network (ISDN)**

*Technologies de l'information — Télécommunications et échange d'informations
entre systèmes — Fourniture du service de réseau OSI en mode connexion par un
terminal en mode paquet raccordé à un réseau numérique avec intégration des
services (RNIS)*



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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) together form a system for world wide standardization as a whole. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for approval before their acceptance as International Standards. They are approved in accordance with procedures requiring at least 75% approval by the national bodies voting.

International Standard ISO/IEC 9574 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

Information technology - Telecommunications and information exchange between systems - Provision of the OSI connection-mode network service by packet mode terminal equipment connected to an integrated services digital network (ISDN)

Section 1 : General

1.1 Scope

This International Standard specifies the method of providing the OSI Connection-mode Network Service (CONS) by packet mode terminal equipment connected to an Integrated Services Digital Network (ISDN) in accordance with the procedures described in CCITT Recommendation X.31. This is done by specifying the mapping of the CONS primitives and parameters to and from the elements of the protocols used by two types of packet mode terminal equipment:

- a) an X.25 DTE (TE2) connected to an R reference point and accessing an ISDN; and
- b) a packet mode ISDN terminal (TE1) operating ISO 8208 packet layer protocol (PLP) and connected to an ISDN at either the S or T reference point.

NOTE - The definitions of TE1, TE2 and TA equipment, and R, S, and T reference points are given in CCITT Recommendation I.411. This International Standard applies to a TE1 or TE2/TA (i.e., an OSI End System) regardless of whether it is a physically separate system or embedded in other equipment such as a PBX.

This International Standard addresses the provision of the CONS using Virtual Calls as described in CCITT Recommendation X.25, it does not address the use of X.25 Permanent Virtual Circuits.

NOTE - This International Standard uses numbers to identify layers, rather than their names. This is done to align the terminology of this document with the terminology of the related CCITT Recommendations for ISDN, and does not imply any change in the functionality of the layers from that defined in the Basic Reference Model for Open Systems Interconnection.

1.2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 7776 : 1986, *Information processing systems - Data communications - High-level data link control procedures - Description of the X.25 LAPB-Compatible DTE data link procedures.*

NOTE - See also CCITT Recommendation X.25

ISO 8208 : 1987, *Information processing systems - Data communications - X.25 Packet Level Protocol for Data Terminal Equipment.*

NOTE - See also CCITT Recommendation X.25

ISO 8878 : 1987, *Information processing systems - Data communications - Use of X.25 to provide the OSI connection-mode network service.*

NOTE - See also CCITT Recommendation X.223

CCITT Recommendation I.231, *Circuit-mode bearer service categories.*

CCITT Recommendation I.232, *Packet-mode bearer service categories.*

CCITT Recommendation I.430, *Basic User-Network Interface Layer 1 Specification.*

CCITT Recommendation I.431, *Primary Rate User-Network Interface Layer 1 Specification.*

CCITT Recommendation Q.921 (I.441), *ISDN User-Network Interface Data Link Layer Specification.*

CCITT Recommendation Q.931 (I.451), *ISDN User-Network Interface Layer 3 Specification.*

CCITT Recommendation V.25 bis, *Automatic Answering Equipment and/or Parallel Automatic Calling Equipment on the General Switched Telephone Network Including Procedures for Disabling of Echo Control Devices for Both Manually and Automatically Established Calls.*

CCITT Recommendation X.21, *Interface Between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for Synchronous Operation on Public Data Networks.*

CCITT Recommendation X.21 bis, *Use on Public Data Networks of Data Terminal Equipment (DTE) which is Designed for Interfacing to Synchronous V-series Modems.*

CCITT Recommendation X.31 (I.462), *Support of Packet Mode Terminal Equipment by an ISDN.*

CCITT Recommendation X.32, *Interface between data terminal equipment (DTE) and data circuit-terminating equipment (DCE) for terminals operating in the packet mode and accessing a packet switched public data network through a public switched telephone network or a circuit switched public data network.*

NOTE - All references to CCITT Recommendations refer to the text of these Recommendations as approved by the CCITT Plenary Assembly in 1988