

Second edition
1998-11-01

Information technology — Protocol for providing the connectionless-mode network service: Protocol specification

*Technologies de l'information — Protocole assurant le service réseau en
mode sans connexion: Spécification du protocole*



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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. 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 voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

International Standard ISO/IEC 8473-1 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*, in collaboration with ITU-T. The identical text is published as ITU-T Recommendation X.233.

This second edition cancels and replaces the first edition (ISO/IEC 8473-1:1994), which has been technically revised. It also incorporates Amendment 1:1995, Amendment 2:1996 and Amendment 3:1996.

ISO/IEC 8473 consists of the following parts, under the general title *Information technology — Protocol for providing the connectionless-mode network service*:

- *Part 1: Protocol specification*
- *Part 2: Provision of the underlying service by an ISO/IEC 8802 subnetwork*
- *Part 3: Provision of the underlying service by an X.25 subnetwork*
- *Part 4: Provision of the underlying service by a subnetwork that provides the OSI data link service*
- *Part 5: Provision of the underlying service by ISDN circuit-switched B-channels*
- *Part 6: Provision of the underlying service assumed by ISO/IEC 8473 by subnetworks employing ISO/IEC 10028 CONS relay*
- *Part 7: Provision of the underlying service assumed by ISO/IEC 8473 by frame relay subnetworks*

Annex A forms an integral part of this part of ISO/IEC 8473. Annexes B and C are for information only.

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Introduction

This is one of a set of Recommendations and International Standards produced to facilitate the interconnection of open systems. The set covers the services and protocols required to achieve such interconnection.

This Recommendation | International Standard is positioned with respect to other related Recommendations and International Standards by the layers defined in ITU-T Rec. X.200 | ISO/IEC 7498-1. In particular, it is a protocol of the Network layer. The protocol specified by this Recommendation | International Standard may be used between Network entities in end systems, between Network entities in intermediate systems, or between a Network entity in an end system and a Network entity in an intermediate system. In an end system, it provides the connectionless-mode Network service defined in ITU-T Rec. X.213 | ISO/IEC 8348.

The interrelationship of the protocol specification and the related service definitions is illustrated in Figure Intro.1.

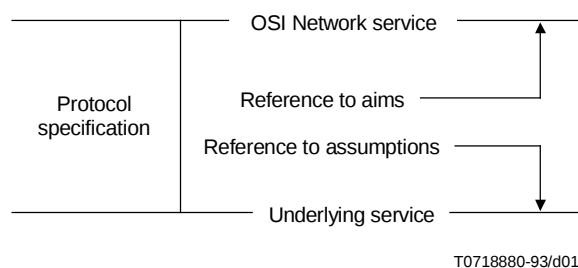


Figure Intro. 1 – Interrelationship of protocol and services

In order to evaluate the conformance of a particular implementation of this protocol, it is necessary to have a statement of which of the protocol's capabilities and options have been implemented. Such a statement is called a Protocol Implementation Conformance Statement (PICS), as defined in ITU-T Rec. X.296 | ISO/IEC 9646-7. A PICS proforma, from which a PICS may be prepared for a specific implementation, is included in this Recommendation | International Standard as normative Annex A.