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

Part 2:

Provision of the underlying service by an
ISO/IEC 8802 subnetwork

*Technologies de l'information — Protocole pour la fourniture du service de
réseau en mode sans connexion —*

*Partie 2: Fourniture du service sous-jacent par un sous-réseau
ISO/CEI 8802*

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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 8473-2 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*.

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 for operation over ISDN circuit-switched B-channel*

Annex A forms an integral part of this part of ISO/IEC 8473.

Introduction

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

This International Standard is positioned with respect to other related International Standards by the layers defined in ISO/IEC 7498-1. In particular, it defines the way in which a local area network that conforms to ISO/IEC 8802 may be used as a subnetwork within the Network layer to provide the abstract underlying service with respect to which the protocol defined by ISO/IEC 8473-1 is specified.

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 ISO/IEC 9646-1. A PICS proforma, from which a PICS may be prepared for a specific implementation, is included in this International Standard as normative Annex A.

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

Part 2:

Provision of the underlying service by an ISO/IEC 8802 subnetwork

1 Scope

This part of ISO/IEC 8473 specifies the way in which the underlying service assumed by the protocol defined by ISO/IEC 8473-1 is provided by a subnetwork that conforms to ISO/IEC 8802 through the operation of a subnetwork dependent convergence function (SND CF) as described in ISO/IEC 8648. The SND CF specified by this part of ISO/IEC 8473 may be used with any ISO/IEC 8802 compliant subnetwork that provides the logical link control sublayer interface service defined by ISO/IEC 8802-2.

This part of ISO/IEC 8473 also provides the PICS proforma for this protocol, in compliance with the relevant requirements, and in accordance with the relevant guidance, given in ISO/IEC 9646-1.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 8473. At the time of publication, the editions indicated were valid. All International Standards are subject to revision, and parties to agreements based on this part of ISO/IEC 8473 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/IEC 7498-1:1994, *Information technology — Open Systems Interconnection — Basic Reference Model: The Basic Model*.

ISO/IEC 8348:1993, *Information technology — Open Systems Interconnection — Network service definition*.

ISO/IEC 8648:1988, *Information processing systems — Open Systems Interconnection — Internal organization of the network layer*.

ISO/IEC TR 8802-1:1994, *Information technology — Telecommunications and information exchange between systems — Data communications — Local and metropolitan area networks — Specific requirements — Part 1: Overview of Local Area Network Standards*.

ISO/IEC 8802-2:1994, *Information technology — Telecommunications and information exchange between systems — Data communications — Local and metropolitan area networks — Specific requirements — Part 2: Logical link control*.

ISO/IEC 9646-1:1991, *Information technology — Open Systems Interconnection — Conformance testing methodology and framework — Part 1: General concepts*.