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МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Information processing systems — Open Systems Interconnection — Protocol for providing the connectionless-mode transport service

*Systèmes de traitement de l'information — Interconnexion de systèmes ouverts —
Spécification du protocole pour fournir un service de transport en mode sans connexion*

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8602 was prepared by Technical Committee ISO/TC 97, *Information processing systems*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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1. The purpose of this document is to provide a clear and concise description of the requirements for the design and development of a new product. This document is intended for use by the design and development team, and it is the responsibility of the team to ensure that the requirements are met.

2. The requirements for the design and development of a new product are as follows:

- 2.1. The product must be designed to meet the requirements of the customer.
- 2.2. The product must be designed to be reliable and durable.
- 2.3. The product must be designed to be easy to use and maintain.
- 2.4. The product must be designed to be safe and secure.
- 2.5. The product must be designed to be environmentally friendly.

3. The design and development team must ensure that the requirements are met by following the following steps:

- 3.1. Define the requirements of the customer.
- 3.2. Design the product to meet the requirements.
- 3.3. Develop the product to meet the requirements.
- 3.4. Test the product to ensure that it meets the requirements.
- 3.5. Release the product to the customer.

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Information processing systems — Open Systems Interconnection — Protocol for providing the connectionless-mode transport service

0 Introduction

This International Standard is one of a set of International Standards produced to facilitate the interconnection of computer systems. The set of International Standards 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 the Reference Model for Open Systems Interconnection (ISO 7498). In particular, it is a protocol of the Transport Layer. It is most closely related to the transport service definition (ISO 8072) and the addendum to the transport service definition covering connectionless-mode transmission (ISO 8072/Add. 1), the network service definition (ISO 8348), and the addendum to the network service definition covering connectionless-mode transmission (ISO 8348/Add. 1). The interrelationship of these International Standards is illustrated in figure 1.

The structure of this International Standard is similar to the structure of ISO 8073 in order to facilitate cross reference between the two standards.

1 Scope and field of application

This International Standard specifies

- procedures for the connectionless-mode transmission of data and protocol control information from one transport entity to one peer transport entity;
- the encoding of the transport-protocol-data-units used for the transmission of data and control information;
- procedures for the correct interpretation of transport protocol control information; and
- the functional requirements for implementations claiming conformance to this International Standard.

The procedures are defined in terms of

- the interactions among peer transport entities through the exchange of transport-protocol-data-units;
- the interactions between a transport entity and a transport service user through the exchange of transport service primitives; and

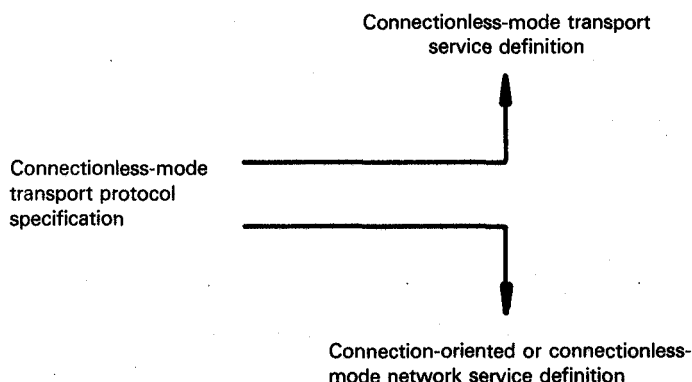


Figure 1 — Relationship between the connectionless-mode transport protocol and adjacent services

- c) the interaction between a transport entity and a network service provider through the exchange of network service primitives.

This International Standard specifies the connectionless-mode transport protocol. The connection oriented transport protocol is specified in ISO 8073.

2 References

ISO 7498, *Information processing systems — Open Systems Interconnection — Basic Reference Model*.

ISO 7498/Add. 1, *Information processing systems — Open Systems Interconnection — Basic Reference Model — Addendum 1 : Connectionless-mode transmission*.

ISO 8072, *Information processing systems — Open Systems Interconnection — Transport service definition*.

ISO 8072/Add. 1, *Information processing systems — Open Systems Interconnection — Transport service definition — Addendum 1 : Connectionless-mode transmission*.

ISO 8073, *Information processing systems — Open Systems Interconnection — Connection oriented transport protocol specification*.

ISO 8073/Add. 1, *Information processing systems — Open Systems Interconnection — Connection oriented transport protocol specification — Addendum 1 : Network connection management subprotocol*.¹⁾

ISO 8348, *Information processing systems — Data communications - Network service definition*.

ISO 8348/Add. 1, *Information processing systems — Data Communications — Network service definition — Addendum 1 : Connectionless-mode transmission*.

1) At present at the stage of draft; publication anticipated in due course.