INTERNATIONAL STANDARD

ISO/IEC 11570

First edition
1992-12-15

Information technology — Telecommunications and information exchange between systems — Open Systems Interconnection — Transport protocol identification mechanism

Technologies de l'information — Télécommunications et échange d'information entre systèmes — Interconnexion de systèmes ouverts — Mécanisme d'identification du protocole de transport

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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 11570 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology.*

Annex A forms an integral part of this International Standard.

Introduction

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

The identification mechanism of transport protocols is positioned with respect to other related International Standards by the layer defined in the reference model for open system interconnection (ISO 7498). It allows identification of protocols (both OSI and non-OSI) used on a given network connection. The initiating transport entity of a network connection may indicate to the accepting transport entity, what transport protocol is to be used on the network connection.

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1 Scope

The procedures specified in this International Standard do not prevent communication between transport entities conforming to ISO/IEC 8073 only and those conforming to ISO/IEC 8073 as well as to this International Standard.

The use of a protocol identification procedure allows transport entities to be implemented which can support both the OSI transport protocols and non-OSI protocols above the OSI network layer.

NOTE – The use of NSAP addresses as it is defined in ISO/IEC 7498-3 provides another possibility in distinguishing between OSI and non-OSI users of the network service. If however the use of NSAPs incurs unacceptable penalties, for example where each NSAP is charged for by the network provider, then the transport protocol identification mechanism is available.

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 7498:1984, *Information processing systems — Open Systems Interconnection — Basic Reference Model.*

ISO 7498-3:1989, *Information processing systems – Open Systems Interconnection – Basic Reference Model – Part 3: Naming and addressing.*

ISO 8072:1986, *Information processing systems — Open Systems Interconnection — Transport service definition.*

ISO/IEC 8073:1992, *Information technology – Telecommunications and information exchange between systems – Open Systems Interconnection – Protocol for providing the connection-mode transport service.*

ISO/IEC 8348:1992, *Information processing systems — Data communications — Network service definition.*

ISO 8602:1986, *Information processing systems – Open Systems Interconnection – Protocol for providing the connectionless-mode transport service.*

ISO/IEC 10736:1992, *Information technology – Telecommunications and information exchange between systems – Transport layer security protocol.*

CCITT Recommendation X.25, *Interface between data terminal equipment (DTE) and data circuit-terminating equipment (DCE) for terminals operating in the packet mode and connected to public data networks by dedicated circuit.*

CCITT Recommendation X.244, *Procedure for the exchange of protocol identification during virtual call establishment on packet switched public data networks.*