
**Information technology — Message
Handling Systems (MHS): MHS routing**

*Technologies de l'information — Systèmes de messagerie (MHS): Routage
MHS*

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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.

Attention is drawn to the possibility that some of the elements of this part of ISO/IEC 10021 may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

International Standard ISO/IEC 10021-10 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.412.

This second edition cancels and replaces the first edition (ISO/IEC 10021-10:1998), which has been technically revised.

ISO/IEC 10021 consists of the following parts, under the general title *Information technology — Message Handling Systems (MHS)*:

- *Part 1: System and Service Overview*
- *Part 2: Overall architecture*
- *Part 3: Abstract Service Definition Conventions*
- *Part 4: Message transfer system: Abstract service definition and procedures*
- *Part 5: Message store: Abstract service definition*
- *Part 6: Protocol specifications*
- *Part 7: Interpersonal messaging system*
- *Part 8: Electronic Data Interchange Messaging Service*
- *Part 9: Electronic Data Interchange Messaging System*
- *Part 10: MHS routing*
- *Part 11: Guide for Messaging Systems Managers*

Annexes A to D form a normative part of this part of ISO/IEC 10021. Annexes E to I are for information only.

Introduction

This Recommendation | International Standard is one of a series of Recommendations | International Standards defining Message Handling in a distributed open systems environment.

Message Handling provides for the exchange of messages between users on a store-and-forward basis. A message submitted by one user (the originator) is transferred through the message-transfer-system (MTS) and delivered to one or more other users (the recipients).

This Recommendation | International Standard defines a method for routing messages through the Message Handling System (MHS).

This Recommendation | International Standard has been produced by joint ITU-T – ISO/IEC agreement. The corresponding documents are ITU-T Rec. X.412 and ISO/IEC 10021-10.

INTERNATIONAL STANDARD

ITU-T RECOMMENDATION

**INFORMATION TECHNOLOGY –
MESSAGE HANDLING SYSTEMS (MHS):
MHS ROUTING****1 Scope**

This Recommendation | International Standard specifies the means by which messages are routed through the MHS, and supplements the procedures defined in 14.3 of ITU-T Rec. X.411 | ISO/IEC 10021-4.

Other Recommendations | parts of ISO/IEC 10021 define other aspects of the MHS. ITU-T Rec. F.400/X.400 | ISO/IEC 10021-1 defines the user-oriented services provided by the MHS. ITU-T Rec. X.402 | ISO/IEC 10021-2 provides an architectural overview of the MHS. ITU-T Rec. X.411 | ISO/IEC 10021-4 defines the abstract-service of the Message Transfer System.

2 Normative references

The following Recommendations and International Standards contain provisions which, through reference in this text, constitute provisions of this Recommendation | International Standard. At the time of publication, the editions indicated were valid. All Recommendations and Standards are subject to revision, and parties to agreements based on this Recommendation | International Standard are encouraged to investigate the possibility of applying the most recent edition of the Recommendation and Standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards. The Telecommunications Standardization Bureau of the ITU maintains a list of currently valid ITU-T Recommendations.

2.1 Presentation references

This Recommendation | International Standard cites the following Presentation specifications:

- ITU-T Recommendation X.680 (1997) | ISO/IEC 8824-1: 1998, *Information technology – Abstract Syntax Notation One (ASN.1): Specification of basic notation*.
- ITU-T Recommendation X.681 (1997) | ISO/IEC 8824-2: 1998, *Information technology – Abstract Syntax Notation One (ASN.1): Information object specification*.

2.2 Directory references

This Recommendation | International Standard cites the following Directory specifications:

- ITU-T Recommendation X.500 (1997) | ISO/IEC 9594-1: 1998, *Information technology – Open Systems Interconnection – The Directory: Overview of concepts, models, and services*.
- ITU-T Recommendation X.501 (1997) | ISO/IEC 9594-2: 1998, *Information technology – Open Systems Interconnection – The Directory: Models*.
- ITU-T Recommendation X.520 (1997) | ISO/IEC 9594-6: 1998, *Information technology – Open Systems Interconnection – The Directory: Selected attribute types*.
- ITU-T Recommendation X.521 (1997) | ISO/IEC 9594-7: 1998, *Information technology – Open Systems Interconnection – The Directory: Selected object classes*.

2.3 Message Handling references

This Recommendation | International Standard cites the following Message Handling System specifications:

- ITU-T Recommendation F.400/X.400 (1999), *Message handling services: Message handling system and service overview*.
ISO/IEC 10021-1: 1999, *Information technology – Message Handling Systems (MHS) – Part 1: System and service overview*.
- ITU-T Recommendation X.402 (1999) | ISO/IEC 10021-2: 1999, *Information technology – Message Handling Systems (MHS): Overall architecture*.
- ITU-T Recommendation X.411 (1999) | ISO/IEC 10021-4: 1999, *Information technology – Message Handling Systems (MHS): Message transfer system: Abstract service definition and procedures*.

2.4 Country Code references

This Recommendation | International Standard cites the following Country Code specifications:

- ISO 3166-1: 1997, *Codes for the representation of names of countries and their subdivisions – Part 1: Country codes*.
- ITU-T Recommendation X.121 (1996), *International number plan for public data networks*.

2.5 Additional references

This Recommendation | International Standard cites the following specification:

- ISO/IEC 9945-2: 1993, *Information technology – Portable Operating System Interface (POSIX) – Part 2: Shell and Utilities*.