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Information technology — Message Handling Systems (MHS) —

Part 8: Electronic Data Interchange Messaging Service

*Technologies de l'information — Systèmes de messagerie (MHS) —
Partie 8: Service de messagerie avec échange de données informatisé*

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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 10021-8 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.

This second edition cancels and replaces the first edition (ISO/IEC 10021-8:1995), 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 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*

Annexes A and B form a normative part of this part of ISO/IEC 10021. Annexes C, D, and E are for information only.

Introduction

This part of ISO/IEC 10021 is one of a number of parts of ISO/IEC 10021 (Information technology - Message Handling Systems (MHS)).

Message handling systems and services enables user to exchange of messages on a store-and-forward basis. A message submitted by one user (the *originator*) is conveyed by the message transfer system (MTS), the principal component of a larger message handling system (MHS), and is subsequently delivered to one or more other users, the message's *recipients*. A user may interact directly with the MTS, or indirectly via a message store (MS).

The MTS comprises a variety of interconnected functional entities called message transfer agents (MTAs). MTAs cooperate to transfer messages and deliver them to their intended recipients. Message stores (MSs) provide storage for messages and enable their submission, retrieval and management. User agents (UAs) help users access MHS. Access units (AUs) provide links to other communication systems and services of various kinds (e.g., other telematic services, postal services).

This part of ISO/IEC 10021 was initially developed and published by the ITU-T in 1991. The current ITU-T version is published as ITU-T Recommendation F.435 (1999).

This part of ISO/IEC 10021 defines the overall system and service description of the message handling application called EDI Messaging.

ISO/IEC NOTE

As stated in the ITU-T version of this part of ISO/IEC 10021 [i.e., F.435 (1999)], the expression “Administration” is used for conciseness to indicate both a telecommunication Administration and recognized private operating agency.

Information technology - Message Handling Systems (MHS) –

Part 8 : Electronic Data Interchange Messaging Service

1 Scope

This part of ISO/IEC 10021 defines the overall system and service of EDI messaging.

Other aspects of message handling systems and services are defined in other parts of ISO/IEC 10021. The layout of Standards | Recommendations defining the message handling system and services is shown in table 1 of ISO/IEC 10021-1 | ITU-T Recommendation X/F.400. The public services built on MHS, as well as access to and from the MHS for public services are defined in the ITU-T's F.400-Series of Recommendations.

The technical aspects of MHS are defined in the multi part series numbered ISO/IEC 10021 and ITU-T's X.400-Series of Recommendations. The overall system architecture of MHS is defined in ISO/IEC 10021-2 | ITU-T Recommendation X.402. The technical aspects of EDI messaging are defined in ISO/IEC 10021-9 | ITU-T Recommendation X.435.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 10021. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO/IEC 10021 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

- ITU-T Recommendation X.501 (1997) | ISO/IEC 9594-2: 1998, *Information technology – Open Systems Interconnection – The Directory: Models.*
- ITU-T Recommendation X.509 (1997) | ISO/IEC 9594-8: 1998, *Information technology – Open Systems Interconnection – The Directory: Authentication framework.*
- ITU-T Recommendation X.521 (1997) | ISO/IEC 9594-7: 1998, *Information technology – Open Systems Interconnection – The Directory: Selected object classes.*
- ISO 9735:1988, *Electronic data interchange for administration, commerce, and transport (EDIFACT) - Application level syntax rules.*
- ITU-T Recommendation F.400/X.400 (1999), *Information technology – 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.413 (1999) | ISO/IEC 10021-5: 1999, *Information technology – Message Handling Systems (MHS): Message Store: Abstract Service Definition.*
- ITU-T Recommendation X.420 (1999) | ISO/IEC 10021-7: 1999, *Information technology – Message Handling Systems (MHS): Interpersonal Messaging System.*
- ITU-T Recommendation X.435 (1999) | ISO/IEC 10021-9: 1999, *Information technology – Message Handling Systems (MHS): Electronic Data Interchange Messaging System.*