

INTERNATIONAL STANDARD

**ISO/IEC
10021-1**

First edition
1990-12-01

AMENDMENT 1
1994-12-01

Information technology — Text Communication — Message-Oriented Text Interchange Systems (MOTIS) —

Part 1: System and Service Overview

AMENDMENT 1: Message Store Extensions

*Technologies de l'information — Communication de texte — Systèmes d'échange
de texte en mode message (MOTIS) —*

Partie 1: Présentation générale du système et des services

AMENDEMENT 1: Extensions de dépôt de message



Reference number
ISO/IEC 10021-1:1990/Amd.1:1994(E)

AVA Documents
Document Sharing Hub

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.

Amendment 1 to International Standard ISO/IEC 10021-1:1990 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee 18, *Document processing and related communication*.

© ISO/IEC 1994

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

ISO/IEC Copyright Office • Case postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

Information technology — Text Communication — Message-Oriented Text Interchange Systems (MOTIS) —

Part 1:

System and Service Overview

AMENDMENT 1: Message Store Extensions

0 Introduction

This clause provides an introduction to this amendment. The text in this clause is not intended for inclusion in ISO/IEC 10021-1.

The elements of service provided by the Message Store Abstract-service defined in CCITT Rec. X.413 (1992) | ISO/IEC 10021-1:1990 are limited to the storage of delivered messages and their subsequent retrieval by the MS-user. This document proposes extensions to the elements of service offered by the general Message Store and the IPMS Message Store to equip them to satisfy a broader range of service requirements. These include the provision of services for the storage of submitted messages, the correlation of replies and IPNs, the modification by the MS-user of certain attributes of stored messages, and the logging of submission and delivery operations.

7.1 Description of the MHS Model

In existing clause 7.1, replace the second last paragraph with the following:

The message store (MS) is an optional general purpose capability of MHS that acts as an intermediary between the UA and the MTA. The MS is depicted in the MHS Functional Model as shown in Figure 1. The MS is a functional entity whose primary purpose is to store delivered, and, optionally, submitted messages and permit their retrieval by the MS-user (UA). The MS also allows for submission from, and alerting to the MS-user.

7.4 The Message Store

Replace existing clause 7.4 (up to 7.4.1) with the following:

Remote UAs can be implemented on a wide variety of equipment, including personal computers of varying capabilities. The MS service can complement a remote UA by providing continuously available storage and delivery services on behalf of a user, for example.

One MS acts on behalf of only one user, i.e. it does not provide a common or shared MS capability to several users. See also PRMD 3 of Figure 5.

The MS will store delivered messages and reports. As an option it may also store submitted messages, submitted probes, and draft messages. The MS may also keep a history of messages by storing extracts of previously and currently stored messages in logs. Messages may be grouped in a user-defined and potentially hierarchical structure.

The MS retrieval capability provides users who subscribe to an MS with basic message retrieval capabilities potentially applicable to all information held by the MS. Figure 6 shows the delivery, and subsequent retrieval of messages that are delivered to an MS, and the submission of messages via the MS.

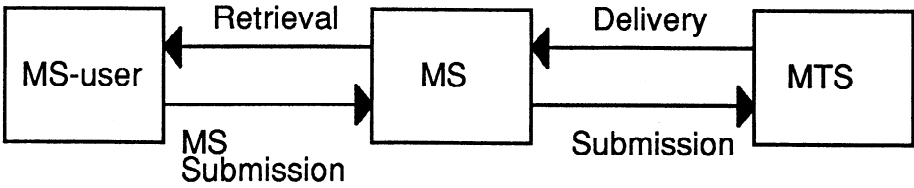


Figure 6 - Submission and Delivery with an MS

When a user subscribes to an MS, all messages destined for the user are delivered to the MS only. The MS-user, if on line, may receive Alerts that announce the delivery of certain messages to the MS. Messages delivered to an MS are considered delivered from the MTS perspective.

The basic MS is independent of application specific services (see 8.7) and may store messages with all types of content, the type of content being dependent on the type of service. However, it may provide additional capabilities depending on the type of content.

When an MS-user submits a message, the MS conveys the submission request to the MTS and reports the outcome returned by the MTS to the MS-user. If requested by the MS-user, the MS may expand the message by forwarding parts of delivered or submitted messages that are currently stored in the MS before conveying the submission to the MTS. The MS may also store a copy of the message submitted to the MTS if the submission is successful. The MS service allows the user to transfer a message to the MS for storage as a draft message. The draft message may subsequently be retrieved, or the MS may include its body-parts in a message submitted to the MTS when requested in a message submitted by the MS-user.

The MS-user may be provided with the capability to request the MS service to forward selected messages automatically upon delivery. The MS may also provide automatic deletion of messages after a user specified period of time, or when the message expires, or when the message is rendered obsolete by another message.

The MS may automatically attach information to a previously submitted message concerning its delivery or non-delivery. The MS may also generate content-specific notifications, acknowledging receipt or acceptance when requested by the user or when the user has retrieved the message.

The elements of service describing the features of the MS are defined in Annex B and classified in clause 19. Users are provided with the capability based on various criteria, to get counts and lists of messages, to fetch messages, and to delete messages, currently held in the MS.

Figure 6A depicts a simplified model of the information types stored in the MS, and the functions the MS fulfils.

The scope of the MS services defined in CCITT Rec. F.400 (1988) and (1992) | ISO/IEC 10021-1:1990 was mainly limited to the storage of delivered messages and reports and their subsequent retrieval by the MS-user. The 1994 version of this part of ISO/IEC 10021 defines new extensions to provide a broader range of service facilities. These enhanced facilities particularly apply in those environments where the MS is used as a personal data base to store, retrieve, modify, and classify a user's messages, often with frequent and long-lasting interaction between the MS-user and MS. Examples of such environments might be found in local area networks, or in environments where the user employs different User Agent implementations at different locations to access one MS. In other environments where the MS is used mainly as a temporary storage system, to take delivery of messages and reports and provide for their retrieval by infrequent and short-lasting interactions, these enhanced facilities may not be required. In this latter case, some enhanced facilities may be provided locally by the MS-user itself.

Consequently, the basic and essential optional requirements defined for the MS in this this part of ISO/IEC 10021 are the same as those defined in versions published prior to 1994.

Insert a new Figure 6A:

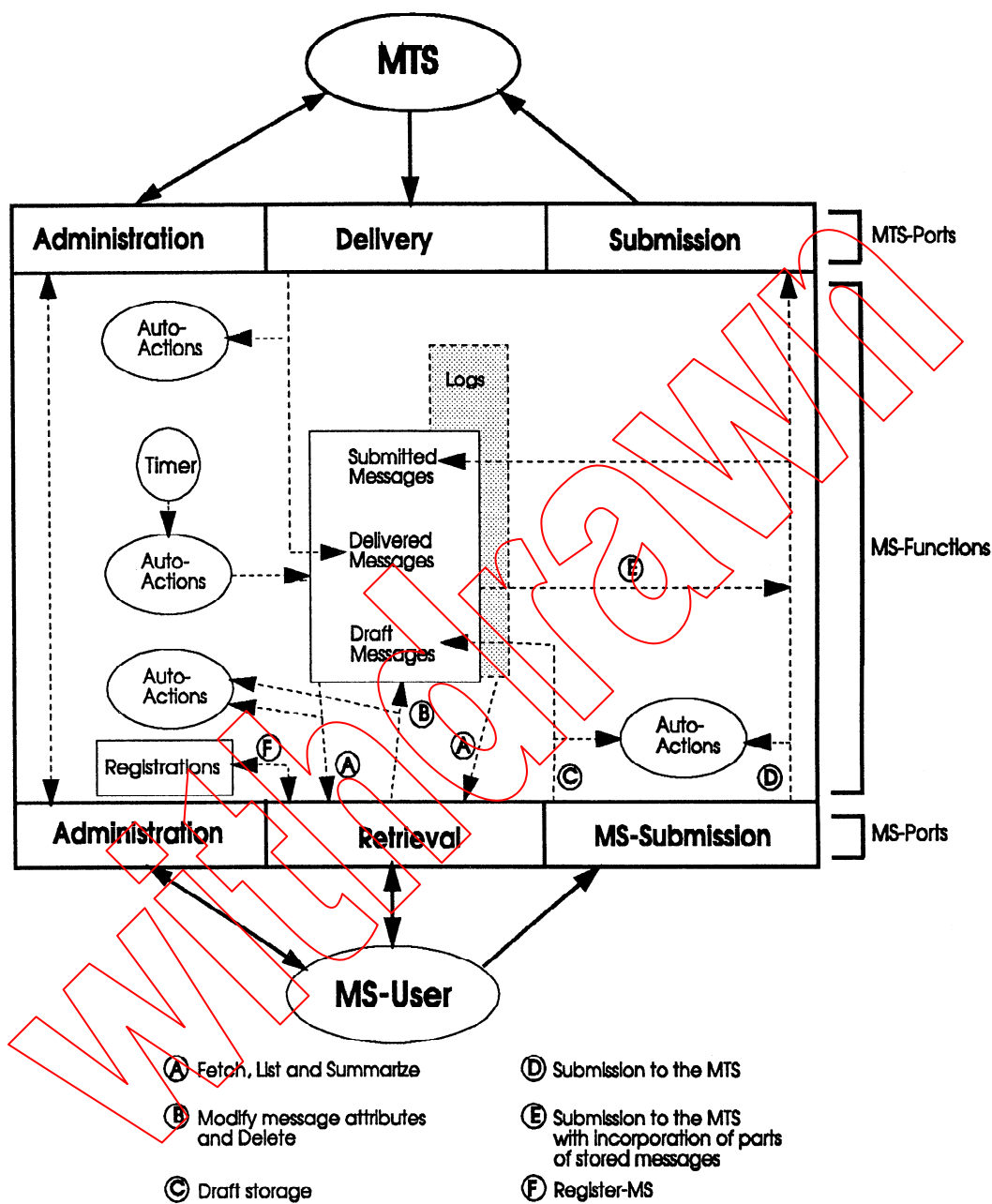


Figure 6A - Message Store Functional Model

8.5 Message Store

Replace the last sentence of 8.5 with the following:

The user may submit messages through the MS, and retrieve messages that have been either delivered to the MS, or submitted by the user.