



SLOVENSKI STANDARD SIST EN ISP 12063-1:1997

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Information technology - International Standardized Profiles AMH3n - Message Handling Systems - EDI Messaging - Part 1: EDIMG MHS Service Support (ISO/IEC ISP 12063-1:1995)

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Technologies de l'information - Profils normalisés internationaux AMH3n - Systemes de messagerie - Messagerie EDI - Partie 1: Support de service EDIMG MHS (ISO/IEC ISP 12063-1:1995)

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Service Support (ISO/IEC ISP 12063-1:1995)

Technologies de l'information - Profils
normalisés internationaux AMH3n - Systèmes de
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de service EDIMG MHS (ISO/IEC ISP 12063-1:1995)

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This European Standard was approved by CEN on 1996-04-19. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Page 2
EN ISP 12063-1:1996

Foreword

The text of the International Standard from the Technical Committee ISO/IEC/JTC 1 "Information Technology" of the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) has been taken over as a European Standard by the Technical Board of CEN.

The EN ISO 12063, Parts 1 to 5, replaces ENV 41220:1993 which shall be withdrawn.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 1996, and conflicting national standards shall be withdrawn at the latest by November 1996.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO/IEC ISP 12063-1:1995 has been approved by CEN as a European Standard without any modification.

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INTERNATIONAL
STANDARDIZED
PROFILE

ISO/IEC
ISP
12063-1

First edition
1995-07-15

**Information technology — International
Standardized Profiles AMH3n — Message
Handling Systems — EDI Messaging —**

Part 1:
EDIMG MHS Service Support

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Technologies de l'information — Profils normalisés internationaux
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Partie 1: Support de service EDIMG MHS



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Contents

	Page
Foreword	iii
Introduction.....	iv
1 Scope	1
2 Normative references	1
3 Definitions	2
4 Abbreviations.....	4
5 Conformance.....	5
6 Basic requirements	5
7 Functional groups	6
8 Naming and addressing	12
9 Error and exception handling	12

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Annexes

A Elements of Service	13
B Amendments and corrigenda	20
C Additional recommended practices for 1984 interworking.....	21
D AMH3 - overall scope and applicability	25
E Bibliography.....	29

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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 JTC1. In addition to developing International Standards, ISO/IEC JTC1 has created a Special Group on Functional Standardization for the elaboration of International Standardized Profiles.

An International Standardized Profile is an internationally agreed, harmonized document which identifies a standard or group of standards, together with options and parameters, necessary to accomplish a function or set of functions.

International Standardized Profile ISO/IEC ISP 12063-1 was prepared with the collaboration of:

- OSI Asia-Oceania Workshop (AOW)
- European Workshop for Open Systems (EWOS), jointly with the European Telecommunications Standards Institute (ETSI)
- OSE Implementors' Workshop (OIW)

ISO/IEC ISP 12063 consists of the following parts, under the general title *Information technology - International Standardized Profiles AMH3n - Message Handling Systems - EDI Messaging*:

- Part 1 : EDIMG MHS Service Support
- Part 2 : AMH31 - EDIMG Content
- Part 3 : AMH32 - EDIMG Requirements for Message Transfer (P1)
- Part 4 : AMH33 - EDIMG Requirements for MTS Access (P3)
- Part 5 : AMH34 - EDIMG Requirements for Enhanced MS Access (P7)

Annexes A and B form an integral part of this part of ISO/IEC ISP 12063. Annexes C, D and E are for information only.

Introduction

This part of ISO/IEC ISP 12063 is defined within the context of Functional Standardization, in accordance with the principles specified by ISO/IEC TR 10000, "Framework and Taxonomy of International Standardized Profiles". The context of Functional Standardization is one part of the overall field of Information Technology (IT) standardization activities, covering base standards, profiles, and registration mechanisms. A profile defines a combination of base standards that collectively perform a specific well-defined IT function. Profiles standardize the use of options and other variations in the base standards, and provide a basis for the development of uniform, internationally recognized system tests.

One of the most important roles for an ISP is to serve as the basis for the development (by organizations other than ISO and IEC) of internationally recognized tests. ISPs are produced not simply to 'legitimize' a particular choice of base standards and options, but to promote real system interoperability. The development and widespread acceptance of tests based on this and other ISPs is crucial to the successful realization of this goal.

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The text for this part of ISO/IEC ISP 12063 was developed in close cooperation between the MHS Expert Groups of the three Regional Workshops: the North American OSE Implementors' Workshop (OIW), the European Workshop for Open Systems (EWOS) (jointly with the corresponding expert group of the European Telecommunications Standards Institute - ETSI) and the OSI Asia-Oceania Workshop (AOW). This part of ISO/IEC ISP 12063 is harmonized between these three Workshops and it has been ratified by the plenary assemblies of all three Workshops.

Information technology – International Standardized Profiles AMH3n – Message Handling Systems – EDI Messaging –

Part 1 : EDIMG MHS Service Support

1 Scope

1.1 General

This part of ISO/IEC ISP 12063 contains the overall specifications of the support of MHS Elements of Service and associated MHS functionality in an Electronic Data Interchange Messaging (EDIMG) environment which are generally not appropriate for consideration only from the perspective of a single MHS protocol. These specifications form part of the EDI Messaging application functions, as defined in the parts of ISO/IEC ISP 12063, and are based on the Common Messaging content type-independent specifications in ISO/IEC ISP 10611. Such specifications are in many cases applicable to more than one MHS protocol or are otherwise concerned with component functionality which, although it can be verified via protocol, is not just related to protocol support. They are therefore designed to be referenced in the MHS EDI Messaging application profiles ISO/IEC ISP 12063-2 (AMH31), ISO/IEC ISP 12063-3 (AMH32), ISO/IEC ISP 12063-4 (AMH33) and ISO/IEC ISP 12063-5 (AMH34), which specify the support of specific MHS protocols and associated functionality.

The specifications in this part of ISO/IEC ISP 12063 are divided into **basic requirements**, which are required to be supported by all EDIMG implementations, and a number of optional **functional groups**, which cover significant discrete areas of related functionality which are not required to be supported by all implementations.

An overview of the scope and applicability of the AMH3n set of profiles and of the structure of this multipart ISP is provided in annex D.

1.2 Position within the taxonomy

This part of ISO/IEC ISP 12063 is the first part, as text common to all parts of the multipart ISP identified in ISO/IEC TR 10000-2 as "AMH3, Message Handling Systems - EDI Messaging" (see also ISO/IEC TR 10000-1, subclause 8.2 for the definition of multipart ISPs).

This part of ISO/IEC ISP 12063 does not, on its own, specify any profiles.

2 Normative references

The following documents contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC ISP 12063. At the time of publication, the editions indicated were valid. All documents are subject to revision, and parties to agreements based on this part of ISO/IEC ISP 12063 are warned against automatically applying any more recent editions of the documents listed below, since the nature of references made by ISPs to such documents is that they may be specific to a particular edition. Members of IEC and ISO maintain registers of currently valid International Standards and ISPs, and the Telecommunications Standardization Bureau of the ITU maintains a list of currently valid ITU-T Recommendations.

Amendments and corrigenda to the base standards referenced are listed in annex B.

NOTES

1 - References in the body of this part of ISO/IEC 12063 to specific clauses of ISO/IEC documents refer also to the corresponding clauses of the equivalent ITU-T Recommendations (as noted below) unless otherwise stated.

2 - Informative reference are found in annex E.

ISO/IEC TR 10000-1: 1992, *Information technology - Framework and taxonomy of International Standardized Profiles - Part 1: Framework.*

ISO/IEC TR 10000-2: 1994, *Information technology - Framework and taxonomy of International Standardized Profiles - Part 2: Principles and taxonomy for OSI profiles.*

ISO/IEC 10021-1: 1990, *Information technology - Text Communication - Message-Oriented Text Interchange Systems (MOTIS) - Part 1: System and Service Overview.* [see also CCITT Recommendation F.400(1992)]

ISO/IEC 10021-2: 1990, *Information technology - Text Communication - Message-Oriented Text Interchange Systems (MOTIS) - Part 2: Overall Architecture.* [see also CCITT Recommendation X.402(1992)]

ISO/IEC 10021-4: 1990, *Information technology - Text Communication - Message-Oriented Text Interchange Systems (MOTIS) - Part 4: Message Transfer System: Abstract Service Definition and Procedures.* [see also CCITT Recommendation X.411(1992)]

ISO/IEC 10021-5: 1990, *Information technology - Text Communication - Message-Oriented Text Interchange Systems (MOTIS) - Part 5: Message Store: Abstract Service Definition.* [see also CCITT Recommendation X.413(1992)]

ISO/IEC 10021-8: 1995, *Information technology - Text Communication - Message Handling Systems - Part 8 : Electronic Data Interchange Messaging Service.* [see also CCITT Recommendation F.435(1991)]

ISO/IEC 10021-9: 1995, *Information technology - Text Communication - Message Handling Systems - Part 9 : Electronic Data Interchange Messaging System.* [see also CCITT Recommendation X.435(1991)]

ISO/IEC ISP 10611: 1994, *Information technology - International Standardized Profiles AMH1n - Message Handling Systems - Common Messaging*

CCITT Recommendation F.400(1992), *Message handling services: Message handling system and service overview.*

CCITT Recommendation F.435(1991), *Message handling: EDI messaging service.*

CCITT Recommendation X.402(1992), *Message handling systems: Overall architecture.*

CCITT Recommendation X.411(1992), *Message handling systems - Message transfer system: Abstract service definition and procedures.*

CCITT Recommendation X.413(1992), *Message handling systems - Message store: Abstract service definition.*

CCITT Recommendation X.435(1991), *Message handling systems: EDI messaging system.*

3 Definitions

For the purposes of this part of ISO/IEC ISP 12063, the following definitions apply.

Terms used in this part of ISO/IEC ISP 12063 are defined in the referenced base standards; in addition, the following terms are defined.

3.1 General

3.1.1 basic requirement : An Element of Service, protocol element, procedural element or other identifiable feature specified in the base standards which is required to be supported by all MHS implementations.

3.1.2 functional group : A specification of one or more related Elements of Service, protocol elements, procedural elements or other identifiable features specified in the base standards which together support a significant optional area of MHS functionality.

NOTE - A functional group can cover any combination of MHS features specified in the base standards for which the effect of implementation can be determined at a standardized external interface - i.e. via a standard OSI communications protocol (other forms of exposed interface, such as a standardized programmatic interfaces, are outside the scope of this version of ISO/IEC ISP 12063).

3.2 Support classification

To specify the support level of Elements of Service for this part of ISO/IEC ISP 12063, the following terminology is defined.

3.2.1 mandatory support (m) :

for origination:

for MT and MS Elements of Service:

A service provider (i.e. an MTA or MS) shall be able to make the Element of Service available to a service user in the role of originator; a service user (i.e. a UA) shall be able to use the Element of Service in the role of originator.

for EDI Elements of Service:

A service provider (i.e. an EDI-UA) shall implement all the procedures specified in the base standards which are associated with the provision of the Element of Service, including use of the corresponding MT or MS Element(s) of Service, as appropriate; where specified in the base standards, a service provider shall make the Element of Service available to the service user in the role of originator; in all cases, it shall be stated in the PICS whether the Element of Service is made available to the service user and, if so, how this is achieved.

for reception:

for MT and MS Elements of Service:

A service provider (i.e. a MTA or MS) shall be able to make the Element of Service available to a service user in the role of recipient; a service user (i.e. a UA) shall be able to use the Element of Service in the role of recipient.

for EDI Elements of Service:

A service provider (i.e. an EDI-UA) shall implement all the procedures specified in the base standards which are associated with the provision of the Element of Service, including use of the corresponding MT or MS Element(s) of Service, as appropriate; where specified in the base standards, a service provider shall make the Element of Service available to the service user in the role of recipient; in all cases, it shall be stated in the PICS whether the Element of Service is made available to the service user and, if so, how this is achieved.

3.2.2 optional support (o) : An implementation is not required to support the Element of Service. If support is claimed, then the Element of Service shall be treated as if it were specified as mandatory support.

3.2.3 conditional support (c) : The Element of Service shall be supported under the conditions specified in this part of ISO/IEC ISP 12063. If these conditions are met, the Element of Service shall be treated as if it were specified as mandatory support. If these conditions are not met, the Element of Service shall be treated as if it were specified as optional support (unless otherwise stated).

3.2.4 out of scope (i) : The Element of Service is outside the scope of this part of ISO/IEC ISP 12063 - i.e. it will not be the subject of an ISP conformance test. However, the handling of associated protocol elements may be specified separately in the subsequent parts of ISO/IEC ISP 12063.

3.2.5 not applicable (–) : The Element of Service is not applicable in the particular context in which this classification is used.

3.3 Profile object identifiers

Profiles that are specified in ISO/IEC ISP 12063 are identified by the object identifiers in table 1.

NOTE - These object identifiers are included for formal purposes and any use of them is not defined. They are not related to any implementation of messaging and do not appear in the protocols specified in ISO/IEC ISP 12063.

Table 1 - Profile object identifiers

Profile	Object Identifier
AMH31	{ iso standard edi-messaging(12063) edimg-content (2) }
AMH32	{ iso standard edi-messaging(12063) edimg-message-transfer(3) }
AMH33	{ iso standard edi-messaging(12063) edimg-mts-access(4) }
AMH34	{ iso standard edi-messaging(12063) edimg-ms-access(5) }

4 Abbreviations

84IW	84 Interworking
AF	Automatic Forwarding
ASN.1	Abstract Syntax Notation One
CV	Conversion
DIR	Use of Directory
DL	Distribution List
EDI	Electronic data interchange
EDI-MS	EDI message store
EDI-UA	EDI user agent
EDIFACT	EDI For Administration, Commerce and Transport
EDIM	EDI Message
EDIMG	EDI Messaging
EDIN	EDI Notification
EH	EDIFACT Heading fields
EIT	Encoded information type
EoS	Element of Service
FG	Functional group
FN	Forwarded notification
IPM	Interpersonal message or Interpersonal messaging
ISP	International Standardized Profile
ISPICS	International Standard Protocol Implementation Conformance Statement
LD	Latest Delivery
MF	Manual Forwarding
MHS	Message Handling Systems
MPB	Multi part body
MS	Message store
MT	Message transfer
MTA	Message transfer agent
MTS	Message Transfer System
NN	Negative notification
OSI	Open Systems Interconnection
PD	Physical Delivery
PDAU	Physical delivery access unit
Pedi	Protocol for electronic data interchange
PN	Positive notification
PS	Private syntax
RED	Redirection
SEC	Security
UA	User agent
X12	ANSI X12