INTERNATIONAL STANDARDIZED PROFILE

ISO/IEC ISP 12062-3

Third edition
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Information technology — International Standardized Profiles AMH2n — Message Handling Systems — Interpersonal Messaging —

Part 3: AMH22 — IPM Requirements for Message Transfer (P1)

Technologies de l'information — Profils normalisés internationaux AMH2n — Systèmes de messagerie — Messagerie entre personnes —

Partie 3: AMH22 — Prescriptions IPM pour transfert de messages (P1)

Reference number
ISO/IEC ISP 12062-3:2003(E)

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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.

In addition to developing International Standards, ISO/IEC JTC 1 also develops 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 a set of functions. Draft International Standardized Profiles adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standardized Profile 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 document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC ISP 12062-3 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*.

This third edition cancels and replaces the second edition (ISO/IEC ISP 12062-3:1997), which has been technically revised.

ISO/IEC ISP 12062 consists of the following parts, under the general title *Information technology — International Standardized Profiles AMH2n — Message Handling Systems — Interpersonal Messaging*:

— *Part 1: IPM MHS Service Support*

— *Part 2: AMH21 — IPM Content*

— *Part 3: AMH22 — IPM Requirements for Message Transfer (P1)*

— *Part 4: AMH23 and AMH25 — IPM Requirements for MTS Access (P3) and MTS 94 Access (P3)*

— *Part 5: AMH24 — IPM Requirements for Enhanced MS Access (P7)*

— *Part 6: AMH26 — IPM Requirements for Enhanced MS 94 Access (P7)*

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Introduction

This part of ISO/IEC ISP 12062 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 rôles 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.

The text for this part of ISO/IEC ISP 12062 was originally 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). The first and second editions of this part of ISO/IEC ISP 12062 were harmonized between these three Workshops and ratified by the plenary assemblies of all three Workshops.

Responsibility for maintenance and further development of MHS ISPs has been transferred to ISO/IEC JTC1/SC33/WG1, who have produced this edition to encompass additions and corrections to ISO/IEC 10021. Because new core requirements have been added for support of Universal Characters in addresses which will take time to be implemented within MHS systems, it is expected that the second edition of this part of ISO/IEC ISP 12062 will remain available for an overlap period.

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Information technology — International Standardized Profiles AMH2n — Message Handling Systems — Interpersonal Messaging —

Part 3: AMH22 — IPM Requirements for Message Transfer (P1)

1 Scope

1.1 General

This part of ISO/IEC ISP 12062 covers message transfer between Message Transfer Agents (MTAs) in an Interpersonal Messaging (IPM) environment using the P1 Message Transfer Protocol (see also figure 1). These specifications form part of the Interpersonal Messaging application functions, as defined in the parts of ISO/IEC ISP 12062, and are based on the Common Messaging content type-independent specifications in ISO/IEC ISP 10611.

1.2 Position within the taxonomy

This part of ISO/IEC ISP 12062 is the third part of a multipart ISP identified in ISO/IEC TR 10000-2 as “AMH2, Message Handling Systems - Interpersonal Messaging”.

This part of ISO/IEC ISP 12062 specifies the following profile:

AMH22 - IPM Requirements for Message Transfer (P1)

The AMH22 profile may be combined with any T-Profiles (see ISO/IEC TR 10000) specifying the OSI connection-mode Transport service.

1.3 Scenario

The model used is one of two or more MTAs intercommunicating within a Message Transfer System (MTS) using the P1 protocol, as shown in figure 1.



Figure 1 - AMH22 scenario

NOTE - In an ITU-T context, a domain may be treated as an MTA for the purposes of conformance to the AMH22 profile.

The AMH22 profile covers all aspects of the MTA Abstract Service, as defined in clause 12 of ISO/IEC 10021-4, when realized using the P1 protocol in an IPM environment.

The OSI upper layer services and protocols to support the Message Handling Systems functions covered by the AMH22 profile are specified in subclause 1.3 of ISO/IEC ISP 10611-3.

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2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

NOTES

1 - References in the body of this part of ISO/IEC ISP 12062 to specific clauses of ISO/IEC documents shall be considered to refer also to the corresponding clauses of the equivalent ITU-T Recommendations (as noted below) unless otherwise stated.

2 - Informative references are found in annex D.

ISO/IEC TR 10000-1:1998*, Information technology - Framework and taxonomy of International Standardized Profiles - Part 1: General principles and documentation framework*

ISO/IEC TR 10000-2:1998*, Information technology - Framework and taxonomy of International Standardized Profiles - Part 2: Principles and Taxonomy for OSI Profiles*

ITU-T Recommendation F.400/X.400 (1999)*, Message Handling Systems - System and service overview*

ISO/IEC 10021-1:2003*, Information technology - Message Handling Systems (MHS) - Part 1: System and service overview [see also ITU-T Recommendation F.400/X.400]*

ITU-T Recommendation X.402 (1999) | ISO/IEC 10021-2:—[1)], *Information technology - Message Handling Systems (MHS): Overall architecture*

ITU-T Recommendation X.411 (1999) | ISO/IEC 10021-4:—[2)], *Information technology - Message Handling Systems (MHS): Message transfer system: Abstract service definition and procedures*

ITU-T Recommendation X.419 (1999) | ISO/IEC 10021-6:1996*, Information technology - Message Handling Systems (MHS): Protocol specifications*

ISO/IEC ISP 10611-3:2003*, Information technology - International Standardized Profiles AMH1n - Message Handling Systems - Common Messaging - Part 3: AMH11 - Message Transfer (P1)*

ISO/IEC ISP 12062-1:2003*, Information technology - International Standardized Profiles AMH2n - Message Handling Systems - Interpersonal Messaging - Part 1: IPM MHS Service Support*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

Terms used in this part of ISO/IEC ISP 12062 are defined in the referenced base standards; in addition, the following terms are defined.

3.1 General

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.

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1) To be published. (Revision of ISO/IEC 10021-2:1996)

2) To be published. (Revision of ISO/IEC 10021-4:1997)

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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 interface, are outside the scope of this version of ISO/IEC ISP 12062).

3.2 Support classification

To specify the support level of arguments, results and other protocol features for this part of ISO/IEC ISP 12062, the following terminology is defined.

NOTE - The requirements for support of arguments, results and other protocol features by an MTA are as specified in ISO/IEC ISP 10611-3.

4 Abbreviations

84IW 84 Interworking
AMH Application Message Handling
CV Conversion
DIR Use of Directory
DL Distribution List
FG Functional group
IPM Interpersonal Messaging
ISP International Standardized Profile
LD Latest Delivery
MHS Message Handling Systems
MS Message store
MT Message transfer
MTA Message transfer agent
MTS Message Transfer System
OSI Open Systems Interconnection
PD Physical Delivery
RED Redirection
RoC Return of Content
SEC Security
UA User agent

5 Conformance

This part of ISO/IEC ISP 12062 states requirements upon implementations to achieve interworking. A claim of conformance to this part of ISO/IEC ISP 12062 is a claim that all requirements in the relevant base standards are satisfied, and that all requirements in the following clauses and in annexes A and B of this part of ISO/IEC ISP 12062 are satisfied.

5.1 Conformance statement

For each implementation claiming conformance to profile AMH22 as specified in this part of ISO/IEC ISP 12062, a PICS shall be made available stating support or non-support of each option identified in this part of ISO/IEC ISP 12062.

The scope of conformance to profile AMH22 is restricted to MTAs that support message transfer. A claim of conformance to profile AMH22 shall confirm that the implementation supports profile AMH111 and shall state whether the implementation also supports profile AMH112 (jointly referenced as AMH11 in this part of ISO/IEC ISP 12062 where a distinction is unnecessary) as specified in ISO/IEC ISP 10611-3.

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5.2 MHS conformance

This part of ISO/IEC ISP 12062 specifies implementation options or selections such that conformant implementations will satisfy the conformance requirements of ISO/IEC 10021 and optionally those of the ITU-T X.400 Recommendations (see subclause 5.2 of ISO/IEC ISP 10611-3).

Implementations conforming to profile AMH22 as specified in this part of ISO/IEC ISP 12062 shall conform to the basic requirements of profile AMH11, as specified in ISO/IEC ISP 10611-3.

Implementations conforming to profile AMH22 as specified in this part of ISO/IEC ISP 12062 shall additionally implement all the mandatory support (m) features identified as basic requirements in annexes A and B except those features that are components of an unimplemented optional feature. It shall be stated which optional support (o) features are implemented.

For implementations conforming to profile AMH22 as specified in this part of ISO/IEC ISP 12062, it shall be stated whether or not they support any of the optional functional groups as specified in ISO/IEC ISP 12062-1 which are applicable to the scope of this profile. For each functional group for which support is claimed, an implementation shall additionally implement all the mandatory support (m) features identified for that functional group in annex B except those features that are components of an unimplemented optional feature. It shall be stated which optional support (o) features are implemented.

Implementations shall support the procedures associated with supported protocol elements as specified in the base standards and as further specified in ISO/IEC ISP 12062-1. The MHS Elements of Service corresponding to such procedures are indicated in annex A of ISO/IEC ISP 12062-1.

5.3 Underlying layers conformance

Implementations conforming to profile AMH22 as specified in this part of ISO/IEC ISP 12062 shall also meet the requirements for support of underlying layers as specified in subclause 5.3 of ISO/IEC ISP 10611-3.

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Annex A[3]

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ISPICS Proforma

for ISO/IEC ISP 12062-3 (AMH22)

This annex modifies the P1 ISPICS proforma as contained in annex A of ISO/IEC ISP 10611-3 for the purposes of conformance to the AMH22 profile.

NOTE - The tables and other material in this annex replace the corresponding clauses of annex A of ISO/IEC ISP 10611-3 or should otherwise be inserted as appropriate.

In the event of a discrepancy becoming apparent in the body of this part of ISO/IEC ISP 12062 and the tables in this annex, this annex is to take precedence.

Clause A.1 specifies the basic requirements for conformance to profile AMH22. Clause A.2 specifies additional requirements to those specified in A.1 for each of the optional functional groups if conformance to such a functional group is claimed. Clause A.3 allows additional information to be provided for certain aspects of an implementation where no specific requirements are included in ISO/IEC ISP 12062 or in ISO/IEC ISP 10611. All three clauses shall be completed as appropriate.

In each table, the "Base" column reflects the level of support required for conformance to the base standard and the "Profile" column specifies the level of support required by this ISP (using the classification and notation defined in 3.2).

The “Ref” column is provided for cross-referencing purposes. The notation employed for references also indicates composite elements which contain sub-elements (a sub-element reference is prefixed by the reference of the composite element).

The “Support” column is provided for completion by the supplier of the implementation as follows:

Y	the element or feature is fully supported (i.e. satisfying the requirements of the m profile support classification)
Y-	the element or feature is minimally supported (i.e. satisfying the requirements of the m-profile support classification)
N	the element or feature is not supported, further qualified to indicate the action taken on receipt of such an element as follows: ND - the element is discarded/ignored NR - the PDU is rejected (with an appropriate error indication where applicable)
– or blank	the element or feature is not applicable (i.e. a major feature or composite protocol element which includes this element or feature is not supported or is minimally supported)

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A.0 Identification of the implementation

A.0.1 Identification of PICS

Ref	Question	Response
1	Date of statement (YYYY-MM-DD)	
2	PICS serial number	
3	System conformance statement cross reference	

A.0.2 Identification of IUT

Ref	Question	Response
1	Implementation name	
2	Implementation version	
3	Hardware name	
4	Hardware version	
5	Operating system name	
6	Operating system version	
7	Special configuration	
8	Other information	

A.0.3 Identification of supplier

Ref	Question	Response
1	Organization name	
2	Contact name(s)	
3	Address	
4	Telephone number	
5	Telex number	
6	Fax number	
7	E-mail address	
8	Other information	

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A.0.4 Identification of protocol

Ref	Question	Response
1	Title, reference number and date of publication of the protocol standard	
2	Protocol version(s)	not applicable
3	Addenda/amendments/corrigenda implemented	
4	Defect reports implemented	not applicable

A.0.5 Global statement of conformance

Ref	Question	Response	Comments
1	Are all mandatory base standards requirements implemented?		

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A.0.6 Statement of profile conformance

Ref	Question	Response	Comments
1	Are all mandatory requirements of profile AMH111 implemented?		
2	Are all mandatory requirements of profile AMH112 implemented?		
3	Are all mandatory requirements of profile AMH22 implemented?		
4	Are all mandatory requirements of any of the following optional functional groups implemented?		
4.1	IPM Conversion (CV)		
4.2	IPM Distribution List (DL)		class(es):
4.3	IPM Physical Delivery (PD)		
4.4	IPM Redirection (RED)		
4.5	IPM Latest Delivery (LD)		
4.6	IPM Return of Content (RoC)		
4.7	IPM Security (SEC)		class(es):
4.8	IPM Use of Directory (DIR)		class(es):
4.9	IPM 84 Interworking (84IW)		

NOTE - The functional group IPM Simple Protected Password (SPP) is not applicable in the P1 context.

A.1 Basic requirements

A.1.4.2 MessageTransfer

Ref	Element	Base	Profile	Support	Notes/References
1.2.5.16	IPMPerRecipientEnvelopeExtensions	o	m-		
1.2.5.16.1	blind-copy-recipients	o	m-		
1.2.5.16.2	body-part-encryption-token	o	m-		
1.2.5.16.3	forwarded-content-token	o	m-		

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Annex B

(normative)

ISPICS Requirements List

for ISO/IEC ISP 12062-3 (AMH22)

In the event of a discrepancy becoming apparent in the body of this part of ISO/IEC ISP 12062 and the tables in this annex, this annex is to take precedence.

This annex specifies the support constraints and characteristics of ISO/IEC ISP 12062-3 on what shall or may appear in the implementation columns of an ISPICS. Such requirements are additional to those specified in annex A of ISO/IEC ISP 10611-3 as modified by annex A of this part of ISO/IEC ISP 12062 (references are to the corresponding table entries in those annexes).

Clause B.1 specifies the basic requirements for conformance to profile AMH22. Clause B.2 specifies additional requirements to those specified in B.1 for each of the optional functional groups if conformance to such a functional group is claimed.

In each table, the "Profile" column specifies the level of support required by this ISP (using the classification and notation defined in 3.2). The supplier of an implementation for which conformance to profile AMH22 is claimed should complete the Support column of the tables in annex A of ISO/IEC ISP 10611-3 as modified by annex A of this part of ISO/IEC ISP 12062 in accordance with the requirements contained therein together with any additional requirements in this annex.

The “Ref” column is provided for cross-referencing purposes. The notation employed for references also indicates composite elements which contain sub-elements (a sub-element reference is prefixed by the reference of the composite element).

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B.1 Basic requirements

No additional requirements.

B.2 Optional functional groups

The following requirements are additional to those specified in B.1 if support of the functional group is claimed.

B.2.1 IPM Conversion (CV)

There are no additional requirements to those specified for the Common Messaging CV FG in annex A.2.1 of ISO/IEC ISP 10611-3.

B.2.2 IPM Distribution List (DL)

The following requirements are additional to those specified for the Common Messaging DL FG in annex A.2.2 of ISO/IEC ISP 10611-3.

B.2.2.1 MessageTransfer

Ref	Element	Profile
A.1.4.2/1.2.5.16	IPMPerRecipientEnvelopeExtensions	m
A.1.4.2/1.2.5.16.1	blind-copy-recipients	m[1]
A.1.4.2/1.2.5.16.2	body-part-encryption-token	c[2]
A.1.4.2/1.2.5.16.3	forwarded-content-token	c[2]
1 shall always be copied from the DL's into each DL-member's per-recipient fields 2 if the DL+SEC or DL+DIR+SEC class is claimed then m else m-		

B.2.3 IPM Physical Delivery (PD)

There are no additional requirements to those specified for the Common Messaging PD FG in annex A.2.3 of ISO/IEC ISP 10611-3.

B.2.4 IPM Redirection (RED)

There are no additional requirements to those specified for the Common Messaging RED FG in annex A.2.4 of ISO/IEC ISP 10611-3.

B.2.5 IPM Latest Delivery (LD)

There are no additional requirements to those specified for the Common Messaging LD FG in annex A.2.5 of ISO/IEC ISP 10611-3.

B.2.6 IPM Return of Content (RoC)

There are no additional requirements to those specified for the Common Messaging RoC FG in annex A.2.6 of ISO/IEC ISP 10611-3.

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B.2.7 IPM Security (SEC)

There are no additional requirements to those specified for the Common Messaging SEC FG in annex A.2.7 of ISO/IEC ISP 10611-3.

B.2.8 IPM Use of Directory (DIR)

There are no additional requirements to those specified for the Common Messaging DIR FG in annex A.2.8 of ISO/IEC ISP 10611-3.

B.2.9 IPM 84 Interworking (84IW)

There are no additional requirements to those specified for the Common Messaging 84IW FG in annex A.2.9 of ISO/IEC ISP 10611-3.

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Annex C

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Amendments and corrigenda

International Standards are subject to constant review and revision by the ISO/IEC Technical Committees concerned. The following amendments and corrigenda are approved by ISO/IEC JTC1 and ITU-T SG 7 and are considered as normative references in this part of ISO/IEC ISP 12062.

None currently, as all approved amendments and corrigenda to ISO/IEC 10021 will be incorporated into the latest edition.

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Annex D

(informative)

Bibliography

The following documents are informatively reference in this text. All documents are subject to revision, and parties to agreements based on this part of ISO/IEC ISP 12062 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.

NOTES
1 - References in the body of this part of ISO/IEC 12062 to specific clauses of ISO/IEC documents refer also to the corresponding clauses of the equivalent ITU-T Recommendations.
2 - Normative references are specified in clause 2.

CCITT Recommendation X.400 (1988), *Message handling system and service overview*

ISO/IEC 10021-1: 1990, *Information technology - Text Communication - Message-Oriented Text Interchange Systems (MOTIS) - Part 1: System and service overview*

CCITT Recommendation X.400 (1992), *Message handling system and service overview*

ITU-T Recommendation F.400/X.400 (1996), *Message Handling Systems - System and service overview*

CCITT Recommendation X.402 (1988), *Message handling systems: Overall architecture*

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CCITT Recommendation X.420 (1988)*, Message handling systems: Interpersonal messaging system*

ISO/IEC 10021-7: 1990*, Information technology - Text Communication - Message-Oriented Text Interchange Systems (MOTIS) - Part 7: Interpersonal Messaging System*

CCITT Recommendation X.420 (1992)*, Message handling systems: Interpersonal messaging system*

ITU-T Recommendation X.420 (1996) | ISO/IEC 10021-7:1997*, Information technology - Message Handling Systems (MHS): Interpersonal messaging system*

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

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