INTERNATIONAL STANDARDIZED PROFILE

ISO/IEC ISP 12063-2

Second edition
1997-12-15

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

Part 2:
AMH31 — EDIMG Content

Technologies de l'information — Profils normalisés internationaux AMH3n — Systèmes de messagerie — Messagerie EDI —

Partie 2: AMH31 — Contenu EDIMG

Reference number
ISO/IEC ISP 12063-2:1997(E)

Contents

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 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 a set of functions.

Draft International Standardized Profiles 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.

International Standardized Profile ISO/IEC ISP 12063-2 was prepared with the collaboration of

— Asia-Oceania Workshop (AOW);

— European Workshop for Open Systems (EWOS);

— Open Systems Environment Implementors' Workshop (OIW).

This second edition cancels and replaces the first edition (ISO/IEC ISP 12063-2:1995), which has been technically revised.

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 and AMH35 - EDIMG Requirements for MTS Access (P3) and MTS 94 Access (P3)*

— *Part 5: AMH34 - EDIMG Requirements for Enhanced MS Access (P7)*

— *Part 6: AMH36 - EDIMG Requirements for Enhanced MS 94 Access (P7)*

NOTE - Part 6 is not yet published.

Annexes A and B form an integral part of this part of ISO/IEC ISP 12063.
Annex C is 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.

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.

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

Part 2:
AMH31 – EDIMG Content

1 Scope

1.1 General

This part of ISO/IEC ISP 12063 covers the interchange of messages between EDI Messaging User Agents (EDI-UAs) (see also figure 1). 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.

1.2 Position within the taxonomy

This part of ISO/IEC ISP 12063 is the second part of a 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 specifies the following profile:

AMH31 - EDIMG Content

The AMH31 profile may optionally be combined with profiles AMH33, AMH34, AMH35 or AMH36 specifying OSI MHS communications protocols and supporting services for an EDI-UA.

1.3 Scenario

The model used is one of indirect interchange of EDI Messages (content type 35) between EDI-UAs via an intermediate Message Transfer System (MTS), as shown in figure 1. The provision of, and access to, the MTS is outside the scope of this profile.

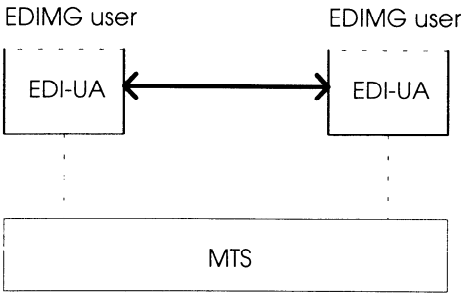

Figure 1 - AMH31 scenario

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 references are found in annex C.

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

ISO/IEC TR 10000-2:—[1], *Information technology - Framework and taxonomy of International Standardized Profiles - Part 2: Principles and Taxonomy for OSI profiles.*

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

ISO/IEC 10021-1:—[2], *Information technology - Message Handling Systems (MHS): System and service overview.*

ITU-T Recommendation X.402 (1995) | ISO/IEC 10021-2: 1996, *Information technology - Message Handling Systems (MHS): Overall architecture.*

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

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

ISO/IEC ISP 10611 (all parts), *Information technology - International Standardized Profiles AMH1n - Message Handling Systems - Common Messaging.*

ISO/IEC ISP 12063-1: 1997, *Information technology - International Standardized Profiles AMH3n - Message Handling Systems - EDI Messaging - Part 1: EDIMG MHS Service Support.*

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

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.

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[1] To be published. (Revision of ISO/IEC 10000:1995)
[2] To be published. (Revision of ISO/IEC 10021-1:1990)

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 programmable interface, are outside the scope of this version of ISO/IEC ISP 12063).

3.2 Support classification

To specify the support level of information objects and items for this part of ISO/IEC ISP 12063, the following terminology is defined.

The following classifications are used in this part of ISO/IEC ISP 12063 to specify static conformance requirements - i.e. capability.

The classification of information objects and items (elements) is relative to that of the containing information element, if any. Where the constituent elements of a non-primitive element are not individually specified, then each shall be considered to have the classification of that element. Where the range of values to be supported for an element is not specified, then all values defined in the MHS base standards shall be supported.

3.2.1 mandatory support (m): The element shall be supported. An implementation shall be able to generate the element, and/or receive the element and perform all associated procedures (i.e. implying the ability to handle both the syntax and the semantics of the element) as relevant, as specified in the MHS base standards. Where support for origination (generation) and reception are not distinguished, then both capabilities shall be assumed.

Where required by the base standards, mandatory support also implies that the EDI-UA implementation shall be able to pass the element on the origination port/reception port to/from the corresponding element on the submission port/delivery port/retrieval port.

3.2.2 optional support (o): An implementation is not required to support the element. If support is claimed, then the element shall be treated as if it were specified as mandatory support. If the element is not supported on reception, then it shall be ignored.

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

3.2.4 out of scope (i): The element 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.

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

4 Abbreviations

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
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
MT	Message transfer
MTA	Message transfer agent
MTS	Message Transfer System
NN	Negative notification
OSI	Open Systems Interconnection
PD	Physical Delivery
Pedi	Protocol for electronic data interchange
PN	Positive notification
PS	Private syntax
RED	Redirection
SEC	Security
UA	User agent
X12	ANSI X12

Support level for information objects (see 3.2):

m	mandatory support
o	optional support
c	conditional support
i	out of scope
–	not applicable

5 Conformance

The scope of conformance to profile AMH31 covers the functionality of, and interoperability between, EDI-UAs. Conformance to profile AMH31 does not imply the provision of a standard OSI communications protocol for access to the MTS. Conformance to profile AMH31 does not imply the provision of an exposed service interface (whether a standardized programmatic interface or a human user interface).

This part of ISO/IEC ISP 12063 states requirements upon implementations to achieve interworking. A claim of conformance to this part of ISO/IEC ISP 12063 is a claim that all requirements in the relevant base standards are satisfied, and that all requirements in the following clauses and in annex A of this part of ISO/IEC ISP 12063 are satisfied. Annex A states the relationship between these requirements and those of the base standards.

5.1 Conformance statement

For each implementation claiming conformance to profile AMH31 as specified in this part of ISO/IEC ISP 12063, a PICS shall be made available stating support or non-support of each option identified in this part of ISO/IEC ISP 12063.

5.2 MHS conformance

This part of ISO/IEC ISP 12063 specifies implementation options or selections such that conformant implementations will satisfy the conformance requirements of ISO/IEC 10021 and the ITU-T X.400 series of Recommendations.

Implementations conforming to profile AMH31 as specified in this part of ISO/IEC ISP 12063 shall implement all the mandatory support (m) features identified as basic requirements in annex A 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 AMH31 as specified in this part of ISO/IEC ISP 12063 it shall be stated whether or not they support any of the optional functional groups as specified in ISO/IEC ISP 12063-1 which are applicable to the scope of this profile. For each functional group for which support is claimed, an implementation shall implement all the mandatory support (m) features identified for that functional group in annex A 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 12063-1. The MHS Elements of Service corresponding to such procedures are indicated in annex A of ISO/IEC ISP 12063-1.

Annex A[1]

(normative)

ISPICS Proforma

for ISO/IEC ISP 12063-2 (AMH31)

In the event of a discrepancy becoming apparent in the body of this part of ISO/IEC ISP 12063 and the tables in this annex, this annex is to take precedence.

NOTE - It is intended that a future version of this annex will be in the form of an ISPICS Requirements List (IPRL) of a published base standards PICS proforma which uses the same structure, classification scheme and notation as currently employed in this annex.

Clause A.0 contains general information to identify the implementation and to provide the statement of conformance. Clause A.1 specifies the basic requirements for conformance to profile AMH31. Clause A.2 specifies additional requirements to those specified in clause 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 12063. All four 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 part of ISO/IEC ISP 12063 (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 convention is 'subclause number' / 'item number'. E.g. the PICS serial number in A.0.1 on the next page is referenced as A.0.1/2.

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

Y	the element or feature is fully supported
N	the element or feature is not supported
– 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)

Where support for origination and support for reception cannot be covered by a single indication, then both support levels shall be indicated, separated by a solidus (e.g. 'N/Y').

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[1]**Copyright release for ISPICS proformas**
Users of this International Standardized Profile may freely reproduce the ISPICS proforma in this annex so that it can be used for its intended purpose and may further publish the completed ISPICS.

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 crossreference	

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	

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
1	Are all mandatory base standards requirements implemented ?	

A.0.6 Statement of profile conformance

Ref	Question	Response
1	Are all mandatory requirements of profile AMH31 implemented ?	
2	Are all mandatory requirements of any of the following optional functional groups implemented ?	
2.1	EDI Forwarding	class(es):
2.2	EDI Security	class(es):
2.3	EDI Multi-Part Body (MPB)	
2.4	EDI ANSI X12 (X12)	
2.5	EDI Private Syntax (PS)	
2.6	EDI EDIFACT Heading fields (EH)	

A.1 Basic requirements

A.1.1 General objects and data types

A.1.1.1 General information objects

The following table classifies the information objects for EDIMG.

Ref	Element	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	EDI Message (EDIM)	m	m	m	m		
1.1	heading	m	m	m	m		see A.1.2
1.2	body	m	m	m	m		see A.1.3.1
2	EDI Notification (EDIN)	m	m	m	m		
2.1	positive-notification	m	m	m	m		see A.1.4.2
2.2	negative-notification	m	m	m	m		see A.1.4.3
2.3	forwarded-notification	c,	c,1	m	m		see A.1.4.4
1	If either class of forwarding is supported then m else -.						

A.1.1.2 Common data types

The following table classifies the common data types (subclauses 7.1 and 7.2 in ISO/IEC 10021-9).

Ref	Element	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	EDIMIdentifier						
1.1	user	m	m	m	m		
1.2	user-relative-identifier	m	m	m	m		
2	Extension-field, 1						
2.1	type	m	m	m	m		
2.2	criticality	m	m	m	m		
2.3	value	m	m	m	m		
1	The criticality rules shall be obeyed for all extensions.						

A.1.2 EDIM heading fields

This subclause expands A.1.1.1/1.1 (subclause 8.2 in ISO/IEC 10021-9).

Ref	Element	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	this-EDIM	m	m	m	m		
2	originator	m	m	m	m		
3	recipients	m	m	m	m		see A.1.2.1
4	edin-receiver	o	o	m	m		see A.1.2.6
5	responsibility-forwarded	o	o	m	m		
6	edi-bodypart-type	m	m	m	m		see A.1.5
7	incomplete-copy	o	o	m	m		
8	expiry-time	o	o	m	m		
9	related-messages	o	o	m	m		see A.1.2.7
10	obsoleted-EDIMs	o	o	m	m		
11	edi-application-security-elements	o	o	o	o		see A.1.2.8
12	cross-referencing-information	o	o	m	m		see A.1.2.9
13	edi-message-type	m	m	m	m		
14	service-string-advice	o	o	o	o		see A.1.2.10
15	syntax-identifier	o	o	o	o		see A.1.2.11
16	interchange-sender	o	o	o	o		see A.1.2.12
17	date-and-time-of-preparation	o	o	o	o		
18	application-reference	o	o	o	o		
19	heading-extensions	o	o,1	o	o,1		
1	The criticality rules shall be obeyed, see A.1.1.2/2.						

A.1.2.1 EDIM heading per-recipient fields

This subclause expands A.1.2/3 (subclause 8.2.3 in ISO/IEC 10021-9).

Ref	Element	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	recipient	m	m	m	m		
2	action-request	o	o	m	m		
3	edi-notification-request	m	m	m	m		see A.1.2.2
4	responsibility-passing-allowed	m	m	m	m		
5	interchange-recipient	o	o	o	o		see A.1.2.3
6	recipient-reference	o	o	o	o		see A.1.2.4
7	interchange-control-reference	o	o	o	o		
8	processing-priority-code	o	o	o	o		
9	acknowledgement-request	o	o	o	o		
10	communications-agreement-id	o	o	o	o		
11	test-indicator	o	o	o	o		
12	authorization-information-field	o	o	o	o		see A.1.2.5
13	recipient-extensions	o	o,1	o	o,1		
1	The criticality rules shall be obeyed, see A.1.1.2/2.						

A.1.2.2 EDI notification request field

This subclause expands A.1.2.1/3 (subclause 8.2.3.3 in ISO/IEC 10021-9).

Ref	Element	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	edi-notification-request	m	m	m	m		
2	edi-notification-security	o	o	o	o		
3	edi-reception-security	o	o	o	o		

A.1.2.3 Interchange recipient field

This subclause expands A.1.2.1/5 (subclause 8.2.3.5 in ISO/IEC 10021-9).

Ref	Element	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	recipient-information	m	m	m	m		
2	identification-code-qualifier	o	m	m	m		
3	routing-address	o	m	m	m		

A.1.2.4 Recipient reference field

This subclause expands A.1.2.1/6 (subclause 8.2.3.6 in ISO/IEC 10021-9).

Ref	Element	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	recipient-reference	m	m	m	m		
2	recipient-reference-qualifier	o	m	m	m		

A.1.2.5 Authorization information field

This subclause expands A.1.2.1/12 (subclause 8.2.3.12 in ISO/IEC 10021-9).

Ref	Element	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	authorization-information	m	m	m	m		
2	authorization-information-qualifier	o	m	m	m		

A.1.2.6 EDIN receiver field

This subclause expands A.1.2/4 (subclause 8.2.4 in ISO/IEC 10021-9).

Ref	Element	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	edin-receiver-name	m	m	m	m		
2	original-edim-identifier	o	o	o	o		
3	first-recipient	o	o	o	o		

A.1.2.7 Related message reference

This subclause expands A.1.2/9 (subclause 8.2.9 in ISO/IEC 10021-9).

Ref	Element	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	edi-message-reference	o	m	m	m		
2	external-message-reference	o	m	o	m		

A.1.2.8 EDI application security elements field

This subclause expands A.1.2/11 (subclause 8.2.11 in ISO/IEC 10021-9).

Ref	Element	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	edi-application-security-elements	o	m	m	m		
2	edi-encrypted-primary-bodypart	o	m	m	m		
3	edi-application-security-extensions	o	o,1	o	o,1		
1	The criticality rules shall be obeyed, see A.1.1.2/2.						

A.1.2.9 Cross reference information sub field

This subclause expands A.1.2/12 (subclause 8.2.12 in ISO/IEC 10021-9).

Ref	Element	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	application-cross-reference	m	m	m	m		
2	message-reference	o	m	m	m		
3	body-part-reference	m	m	m	m		

A.1.2.10 Service string advice field

This subclause expands A.1.2/14 (subclause 8.2.14 in ISO/IEC 10021-9).

Ref	Element	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	component-data-element-separator	m	m	m	m		
2	data-element-separator	m	m	m	m		
3	decimal-notation	m	m	m	m		
4	release-indicator	o	m	m	m		
5	reserved	o	o	o	o		
6	segment-terminator	m	m	m	m		

A.1.2.11 Syntax identifier field

This subclause expands A.1.2/15 (subclause 8.2.15 in ISO/IEC 10021-9).

Ref	Element	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	syntax-identifier	m	m	m	m		
2	syntax-version	m	m	m	m		

A.1.2.12 Interchange sender field

This subclause expands A.1.2/16 (subclause 8.2.16 in ISO/IEC 10021-9).

Ref	Element	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	sender-identification	m	m	m	m		
2	identification-code-qualifier	o	m	m	m		
3	address-for-reverse-routing	o	m	m	m		

A.1.3 Body

A.1.3.1 EDIM body fields

This subclause expands A.1.1.1/1.2 (subclause 8 in ISO/IEC 10021-9).

Ref	Element	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	primary-body-part	m	m	m	m		
1.1	edi-body-part	m	m	m	m		
1.2	forwarded-EDIM	o	o	o	o		see A.1.3.2
2	additional-body-parts	o	o	m,1	m,1		see A.1.3.3
1	There is no requirement to support any specific externally defined body part .						

A.1.3.2 EDIM body part

This subclause expands A.1.3.1/1.2 (subclause 8.3.2 in ISO/IEC 10021-9).

Ref	Element	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	parameters	o	o	m	m		
1.1	delivery-time	o	m	m	m		
1.2	delivery-envelope	o	m	m	m		
1.3	other-parameters	o	o	o	o		
2	data	m	m	m	m		
2.1	heading	m	m	m	m		
2.2	body	m	m	m	m		
2.2.1	primary-or-removed	m	m	m	m		
2.2.1.1	removed-edi-body	o	c,1	m	m		
2.2.1.2	primary-body-part	m	m	m	m		see A.1.3.1
2.2.2	additional-body-parts	o	c,2	m	m		
2.2.2.1	external-body-part	m	m	m	m		see A.1.3.3
2.2.2.2	place-holder	o	c,1	m	m		
1	If removal of body parts is supported then m else o, see A.3.4/4.						
2	When receiving a multi-part body EDIM and forwarding it without having accepted the EDI responsibility for it, this field is always present.						

A.1.3.3 EDIM externally defined body part

This subclause expands A.1.3.2/2.2.2.1 (subclause 8.3.3 in ISO/IEC 10021-9).

Ref	Element	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	body-part-reference	o	m	m	m		
2	external-body-part	m	m	m	m		see A.3.4

A.1.4 EDIN fields

A.1.4.1 EDIN common fields

This subclause expands A.1.4.2/1 and A.1.4.3/1 and A.1.4.4/1 (subclause 9.1 in ISO/IEC 10021-9).

Ref	Element	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	subject-edim	m	m	m	m		
2	edin-originator	m	m	m	m		
3	first-recipient	o	o	m	m		
4	notification-time	m	m	m	m		
5	notification-security-elements	o	c,1	o	c,2		
5.1	original-content	o	o	o	o		
5.2	original-content-integrity-check	o	c,1	o	c,2		
5.3	edi-application-security-elements	o	o	o	o		
5.4	security-extensions	o	o,3	o	o,3		
6	edin-initiator	m	m,4	m	m,4		
7	notification-extensions	o	o,3	o	o,3		

1 If edi-notification-security or edi-reception-security is supported on reception (see A.1.2.2), then m else o.

2 If edi-notification-security or edi-reception-security is supported on origination (see A.1.2.2), then m else o.

3 The criticality rules shall be obeyed, see A.1.1.2/2.

4 Only the values appropriate to the implementation are required to be set.

A.1.4.2 PN fields

This subclause expands A.1.1.1/2.1 (subclause 9.2 in ISO/IEC 10021-9).

Ref	Element	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	pn-common-fields	m	m	m	m		see A.1.4.1
2	pn-supplementary-information	o	o	o	m		
3	pn-extensions	o	o,1	o	o,1		
1	The criticality rules shall be obeyed, see A.1.1.2/2.						

A.1.4.3 NN fields

This subclause expands A.1.1.1/2.2 (subclause 9.3 in ISO/IEC 10021-9).

Ref	Element	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	nn-common-fields	m	m	m	m		see A.1.4.1
2	nn-reason-code	m	m	m	m		
2.1	nn-ua-ms-reason-code	o	c,1	m	m		
2.1.1	nn-user-basic-code	m	m	m	m		
2.1.2	nn-user-diagnostic	o	m	o	m		
2.2	nn-user-reason-code	o	c,1	m	m		
2.2.1	nn-user-basic-code	m	m	m	m		
2.2.2	nn-user-diagnostic	o	m	m	m		
2.3	nn-pdau-reason-code	o	o	m	m		
2.3.1	nn-pdau-basic-code	m	m	m	m		
2.3.2	nn-pdau-diagnostic	o	m	m	m		
3	nn-supplementary-information	o	o	o	m		
4	nn-extensions	o	o,2	o	o,2		
1	At least one of these elements shall be supported.						
2	The criticality rules shall be obeyed, see A.1.1.2/2.						

A.1.4.4 FN fields

This subclause expands A.1.1.1/2.3 (subclause 9.4 in ISO/IEC 10021-9).

Ref	Element	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	fn-common-fields	m	m	m	m		see A.1.4.1
2	forwarded-to	m	m	m	m		
3	fn-reason-code	m	m	m	m		
3.1	fn-ua-ms-reason-code	o	c,1	m	m		
3.1.1	fn-ua-ms-basic-code	m	m	m	m		
3.1.2	fn-ua-ms-diagnostic	o	m	m	m		
3.1.3	fn-security-check	o	o	m	m,2		
3.2	fn-user-reason-code	o	c,1	m	m		
3.2.1	fn-user-basic-code	m	m	m	m		
3.2.2	fn-user-diagnostic	o	m	m	m		
3.3	fn-pdau-reason-code	o	o	m	m		
3.3.1	fn-pdau-basic-code	m	m	m	m		
3.3.2	fn-pdau-diagnostic	o	m	m	m		
4	fn-supplementary-information	o	o	o	m		
5	fn-extensions	o	o,3	o	o,3		

1 At least one of these elements shall be supported.

2 FN-security-check only apply when both the Forwarding (MF or AF) and security class SEC1 or class SEC2 are supported.

3 The criticality rules shall be obeyed, see A.1.1.2/2.

A.1.5 Body part types

This subclause expands A.1.2/6 (subclause 8.2.6 in ISO/IEC 10021-9).

It shall be indicated below which EDI body part types are supported. An implementation shall meet the requirements of one or both of body part type groups A and B.

EDI body part types for private defined syntaxes shall be specified in A.3.5.

Ref	EDI body part type	Origination		Reception		Support	Notes/References
		A	B	A	B		
1	EDIFACT ISO 646	m	m	m	m		
2	EDIFACT T.61	o	o	o	o		
3	EDIFACT ISO 8859	o	m	o	m		
4	EDIFACT undefined octets	o	o	o	o		
5	ANSIX12 ISO 646	o	o	o	o		
6	ANSIX12 T.61	o	o	o	o		
7	ANSIX12 ISO 8859	o	o	o	o		
8	ANSIX12 undefined octets	o	o	o	o		
9	UNTDI ISO 646	o	o	o	o		
10	UNTDI T.61	o	o	o	o		
11	UNTDI undefined octets	o	o	o	o		
12	Private undefined octets, 1	o	o	o	o		
13	Undefined undefined octets, 1	o	o	o	o		
14	Privately defined	o	o	o	o		see A.3.5
1 The use of this body part type is deprecated.							

NOTE - The requirements for body part type group B are derived from the sets of countries and languages as broadly represented by both the European Workshop for Open Systems (EWOS) and the North American OSE Implementors' Workshop (OIW). Further body part type groups may be defined in future versions of this part of ISO/IEC ISP 12063.

A.1.6 OR-name forms

Ref	Body part types and EITs	Origination		Reception		Support	Notes/References
		Base	Profile	Base	Profile		
1	mnemonic OR-address	o	m	o	m		
2	numeric OR-address	o	m	o	m		
3	terminal OR-address	o	m	o	m		

A.2 Optional functional groups

The following requirements are additional to those specified in clause A.1 if support of the functional group is claimed (references are to the corresponding table entries in A.0.6). There are no additional requirements for support of Pedi information objects for support of any of the EDIMG optional functional groups except as specified in this clause.

A.2.1 EDI Forwarding (AF and MF)

Ref	Element	Profile		Notes/References
		Orig.	Rec.	
A.1.1.1/2.3	forwarded-notification	m		
A.1.2/4	edin-receiver	m		
A.1.2/5	responsibility-forwarded	m		
A.1.2/7	incomplete-copy	c,1		
A.1.3.1/1.2	forwarded-EDIM	m	m	
A.1.3.2/1	parameters	m		
A.1.3.2/2.2.2	additional-body-parts	m,2		
A.1.2.6/2	original-edim-identifier	m	m	
A.1.2.6./3	first-recipient	m	m	
A.1.4.3/3	nn-supplementary-information	m		
A.1.4.4/4	fn-supplementary-information	m		

1 If removal of body parts and the AF class is supported m else -, see A.3.4/4.

2 When receiving a multi-part body EDIM and forwarding it without accepting EDI responsibility for it, this field is always present. This case is the only requirement.

A.2.2 EDI Security

A.2.2.1 EDI Security (SEC1 and SEC2)

Ref	Element	Profile		Notes/References
		Orig.	Rec.	
A.1.2.2/2	edi-notification-security	m	m	
A.1.2.2/3	edi-reception-security	m	m	
A.1.4.1/5	notification-security-elements	m	m	
A.1.4.4/3.1.3	fn-security-check	c,1		

1 If either class of forwarding is supported then m else o.

A.2.2.2 EDI Security (class SEC3)

Ref	Element	Profile		Notes/References
		Orig.	Rec.	
A.1.2/11	edi-application-security-elements	m	m	

A.2.3 EDI Multi-part Body (MPB)

Ref	Element	Profile		Notes/References
		Orig.	Rec.	
A.1.2/12	cross-referencing-information	m		
A.1.3.2/2.2.2	additional-body-parts	m		see A.3.4

A.2.4 EDI ANSI X12 (X12)

Ref	Element	Profile		Notes/References
		Orig.	Rec.	
A.1.2/14	service-string-advice	m	m	
A.1.2/15	syntax-identifier	m	m	
A.1.2/16	interchange-sender	m	m	
A.1.2/17	date-and-time-of-preparation	m	m	
A.1.2.1/5	interchange-recipient	m	m	
A.1.2.1/6	recipient-reference	m	m	
A.1.2.1/7	interchange-control-reference	m	m	
A.1.2.1/9	acknowledgement-request	m	m	
A.1.2.1/11	test-indicator	m	m	
A.1.2.1/12	authorization-information-field	m	m	

NOTE - The corresponding ANSI X12 field/element names are listed in annex K of ISO/IEC 10021-9.

A.2.5 EDI Private Syntax (PS)

Ref	Element	Profile		Notes/References
		Orig.	Rec.	
A.1.5/14	Privately defined	m,1	m,1	see A.3.5
1 Support of all possible privately defined EDI syntaxes is required.				

A.2.6 EDI EDIFACT Heading fields (EH)

Ref	Element	Profile		Notes/References
		Orig.	Rec.	
A.1.2/14	service-string-advice	m	m	
A.1.2/15	syntax-identifier	m	m	
A.1.2/16	interchange-sender	m	m	
A.1.2/17	date-and-time-of-preparation	m	m	
A.1.2/18	application-reference	m	m	
A.1.2.1/5	interchange-recipient	m	m	
A.1.2.1/6	recipient-reference	m	m	
A.1.2.1/7	interchange-control-reference	m	m	
A.1.2.1/8	processing-priority-code	m	m	
A.1.2.1/9	acknowledgement-request	m	m	
A.1.2.1/10	communications-agreement-id	m	m	
A.1.2.1/11	test-indicator	m	m	

A.3 Additional information

A.3.1 Element of Service support

The following table shall be completed to indicate (Y or ✓), for each Element of Service, whether the Element of Service is made available to the EDIMG-user and, if so, how this is achieved. Where support for origination and reception cannot be covered by a single indication, then both shall be indicated.

The columns have the following meanings:

Service — the EoS can be made dynamically selectable by the EDIMG-user (i.e. for invocation and/or notification, as appropriate) without requiring reconfiguration of the UA or other intervention in each instance (whether the semantics of the EoS are available at a human user interface, programmatic interface or by other means may be specified in the Comments column)

Auto — the EoS is automatically invoked/actioned by the UA without reference to the EDIMG-user (whether selection is dynamically determined based on some other knowledge or criteria may be specified in the Comments column)

Config — the UA may be configured to select the EoS by the execution of some off-line process

Other — any other means of using the EoS

Ref	Element of Service	Service	Auto	Config	Comments/Other
1	Access Management				
2	Additional Physical Rendition				
3	Alternate Recipient Allowed				
4	Alternate Recipient Assignment				
5	Application Security Element				
6	Basic Physical Rendition				
7	Character Set				
8	Content Confidentiality				
9	Content Integrity				
10	Content Type Indication				
11	Conversion Prohibition				
12	Conversion Prohibition in Case of Loss of Information				
13	Converted Indication				
14	Counter Collection				
15	Counter Collection with Advice				

Ref	Element of Service	Service	Auto	Config	Comments/Other
16	Cross Reference Information				
17	Deferred Delivery				
18	Deferred Delivery Cancellation				
19	Delivery Notification				
20	Delivery Time Stamp Indication				
21	Delivery via Bureaufax Service				
22	Designation of Recipient by Directory Name				
23	Disclosure of Other Recipients				
24	DL Expansion History Indication				
25	DL Expansion Prohibited				
26	EDI Forwarding				
27	EDI Message Identification				
28	EDI Message Type(s)				
29	EDI Notification Request				
30	EDI Standard Indication				
31	EDIM Responsibility Forwarding Allowed Indication				
32	EDIN Receiver				
33	EMS (Express Mail Service)				
34	Expiry Date/Time Indication				
35	Explicit Conversion				
36	Grade of Delivery Selection				
37	Hold for Delivery				
38	Implicit Conversion				
39	Incomplete Copy Indication				
40	Interchange Header				
41	Latest Delivery Designation				
42	Message Flow Confidentiality				

Ref	Element of Service	Service	Auto	Config	Comments/Other
43	Message Identification				
44	Message Origin Authentication				
45	Message Security Labelling				
46	Message Sequence Integrity				
47	MS Register				
48	Multi-destination Delivery				
49	Multi-part Body				
50	Non-delivery Notification				
51	Non-repudiation of Content Originated				
52	Non-repudiation of Content Received				
53	Non-repudiation of Content Received Request				
54	Non-repudiation of Delivery				
55	Non-repudiation of EDI Notification				
56	Non-repudiation of EDI Notification Request				
57	Non-repudiation of Origin				
58	Non-repudiation of Submission				
59	Obsoleting Indication				
60	Ordinary Mail				
61	Original Encoded Information Types Indication				
62	Originator Indication				
63	Originator Requested Alternate Recipient				
64	Physical Delivery Notification by MHS				
65	Physical Delivery Notification by PDS				
66	Physical Forwarding Allowed				
67	Physical Forwarding Prohibited				
68	Prevention of Non-delivery Notification				
69	Probe				
70	Probe Origin Authentication				

Ref	Element of Service	Service	Auto	Config	Comments/Other
71	Proof of Content Received				
72	Proof of Content Received Request				
73	Proof of Delivery				
74	Proof of EDI Notification				
75	Proof of EDI Notification Request				
76	Proof of Submission				
77	Recipient Indication				
78	Redirection Disallowed by Originator				
79	Redirection of Incoming Messages				
80	Registered Mail				
81	Registered Mail to Addressee in Person				
82	Related Message(s)				
83	Report Origin Authentication				
84	Request for Forwarding Address				
85	Requested Preferred Delivery Method				
86	Restricted Delivery				
87	Return of Content				
88	Secure Access Management				
89	Services Indication				
90	Special Delivery				
91	Stored EDI Message Auto-forward				
92	Stored Message Alert				
93	Stored Message Auto-forward				
94	Stored Message Deletion				
95	Stored Message Fetching				
96	Stored Message Listing				
97	Stored Message Summary				
98	Submission Time Stamp Indication				