INTERNATIONAL STANDARDIZED PROFILE

ISO/IEC ISP 10611-4

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Information technology — International Standardized Profiles AMH1n — Message Handling Systems — Common Messaging —

Part 4: AMH12 and AMH14 — MTS Access (P3) and MTS 94 Access (P3)

Technologies de l'information — Profils normalisés internationaux AMH1n — Systèmes de messagerie — Messagerie commune —

Partie 4: AMH12 et AMH14 — Accès à MTS (P3) et accès à MTS 94 (P3)

Reference number
ISO/IEC ISP 10611-4:2003(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 10611-4 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 10611-4:1997), which has been technically revised.

ISO/IEC ISP 10611 consists of the following parts, under the general title *Information technology — International Standardized Profiles AMH1n — Message Handling Systems — Common Messaging*:

— *Part 1: MHS Service Support*

— *Part 2: Specification of ROSE, RTSE, ACSE, Presentation and Session Protocols for use by MHS*

— *Part 3: AMH11 — Message Transfer (P1)*

— *Part 4: AMH12 and AMH14 — MTS Access (P3) and MTS 94 Access (P3)*

— *Part 5: AMH13 — MS Access (P7)*

— *Part 6: AMH15 — MS 94 Access (P7)*

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Introduction

This part of ISO/IEC ISP 10611 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 10611 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 10611 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 10611 will remain available for an overlap period.

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Information technology — International Standardized Profiles AMH1n — Message Handling Systems — Common Messaging —

Part 4: AMH12 and AMH14 — MTS Access (P3) and MTS 94 Access (P3)

1 Scope

1.1 General

This part of ISO/IEC ISP 10611 covers access to a Message Transfer System (MTS) using the P3 MTS Access Protocol (see also figure 1). These specifications form part of the Common Messaging application functions, as defined in the parts of ISO/IEC ISP 10611, which form a common basis for content type-dependent International Standardized Profiles for MHS that will be developed.

An MTA or a MTS-user which conforms to profile AMH12 as specified in this part of ISO/IEC ISP 10611 shall support a ‘mts-access’ application context and for the MTA also ‘mts-forced-access’ application context . The MTA or the MTS-user may additionally conform to profile AMH14 as specified in this part of ISO/IEC ISP 10611 shall support the ‘mts-access-94’ and ‘mts-forced-access-94’ application contexts.

1.2 Position within the taxonomy

This part of ISO/IEC ISP 10611 is the fourth part of a multipart ISP identified in ISO/IEC TR 10000-2 as “AMH1, Message Handling Systems - Common Messaging”.

This part of ISO/IEC ISP 10611 specifies the following profiles:

AMH12 - MTS Access (P3)

AMH14 - MTS 94 Access (P3)

The AMH12 and AMH14 profiles 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 access to an MTS by an MTS-user - specifically, the intercommunication between a message transfer agent (MTA) and an MTS-user using the P3 protocol, as shown in figure 1.

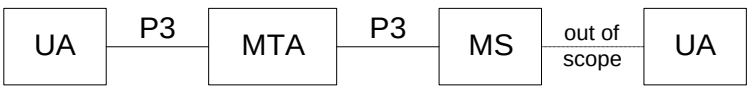

Figure 1 - AMH12 and AMH14 scenario

The AMH12 and AMH14 profiles covers all aspects of the MTS Abstract Service, as defined in clause 8 of ISO/IEC 10021-4, when realized using the P3 protocol.

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The OSI upper layer services and protocols to support the Message Handling Systems functions covered by the AMH12 profile are specified in the set of standards identified in table 1.

Table 1 - AMH12 profile model

Application Layer	MHS	ISO/IEC 10021-6
	ROSE	see ISO/IEC ISP 10611-2
	RTSE	see ISO/IEC ISP 10611-2
	ACSE	see ISO/IEC ISP 10611-2
Presentation Layer		see ISO/IEC ISP 10611-2
Session Layer		see ISO/IEC ISP 10611-2

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 B.

NOTES

1 - References in the body of this part of ISO/IEC ISP 10611 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 E.

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), *Message Handling Systems - Protocol Object Identifiers*

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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ISO/IEC ISP 10611-1:2003, *Information technology - International Standardized Profiles AMH1n - Message Handling Systems - Common Messaging - Part 1: MHS Service Support*

ISO/IEC ISP 10611-2:1997, *Information technology - International Standardized Profiles AMH1n - Message Handling Systems - Common Messaging - Part 2: Specification of ROSE, RTSE, ACSE, Presentation and Session Protocols for use by MHS*

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 10611 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.

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 10611).

3.2 Support classification

To specify the support level of operations, arguments, results and other protocol features for this part of ISO/IEC ISP 10611, the following terminology is defined.

The following classifications are used in this part of ISO/IEC ISP 10611 to specify static conformance requirements - i.e. capability.

In the case of arguments and results (protocol elements), the classification is relative to that of the containing 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.

mandatory full support (**m**) : the element or feature shall be fully 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.

mandatory minimal support (**m-**) : the element shall be supported. However, an implementation is only required to be able to copy the syntax of the element to the corresponding element of a message, probe or report for onward transfer or delivery, as appropriate, according to the procedures as specified in the MHS base standards, unless further qualified for the output envelope in question elsewhere in this multipart ISP (i.e. the classification of the output envelope takes precedence). An implementation is not required to be able to take any explicit action based on the semantics of such an element other than to treat the element as supported for criticality purposes. An implementation is not required to be able to originate such an element.

NOTE - The m- classification is designed to distinguish those cases where the MHS base standards define more than one level of functionality and the minimum required level of support in this profile is the minimum functionality defined in the base standards. Where the only functionality defined in the base standards is copying the element as described above, then the m classification is used in preference to m-.

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optional support (**o**) : an implementation is not required to support the element or feature. If support is claimed, the element shall be treated as if it were specified as mandatory support. If support for origination is not claimed, then the element is not generated and, in the case of non-support of a critical extension by an MTA implementation on delivery, shall cause a non-delivery notification to be returned. If support for reception is not claimed, and the element is an argument, then an implementation may ignore a non-critical extension on delivery but shall otherwise generate an appropriate error indication. If support for reception is not claimed, and the element is a result, then the element may be ignored. If support of an operation as a responder is not claimed, then an appropriate error indication shall be generated (as a minimum, a ROSE reject shall be generated).

conditional support (**c**) : the element shall be supported under the conditions specified in this part of ISO/IEC ISP 10611. 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).

out of scope (**i**) : the element is outside the scope of this part of ISO/IEC ISP 10611 - i.e. it will not be the subject of an ISP conformance test.

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

4 Abbreviations

AMH	Application Message Handling
ASN.1	Abstract Syntax Notation One
CV	Conversion
DC	Delivery Constraints
DIR	Use of Directory
DL	Distribution List
EoS	Element of Service
FG	Functional group
ISP	International Standardized Profile
LD	Latest Delivery
MHS	Message Handling Systems
MS	Message store
MTA	Message transfer agent
OSI	Open Systems Interconnection
PD	Physical Delivery
RD	Restricted Delivery
RED	Redirection
RED2	Redirection Instructions
RoC	Return of Content
SEC	Security
SPP	Simple Protected Password
UA	User agent

Support level for protocol elements and features (see 3.2):

m	mandatory full support
m-	mandatory minimal support
o	optional support
c	conditional support
i	out of scope
–	not applicable
r	required
x	excluded

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5 Conformance

This part of ISO/IEC ISP 10611 states requirements upon implementations to achieve interworking. A claim of conformance to this part of ISO/IEC ISP 10611 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 10611 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 AMH12 as specified in this part of ISO/IEC ISP 10611, a PICS shall be made available stating support or non-support of each option identified in this part of ISO/IEC ISP 10611.

The scope of conformance to profiles AMH12 and AMH14 covers both MTAs and MTS-users. A claim of conformance to profiles AMH12 and/or AMH14 shall state whether the implementation claims conformance as an MTA, as a UA, or as an MS which is not co-located with an MTA. The claim shall also state if the implementation conform to profiles AMH12 and/or AMH14.

5.2 MHS conformance

This part of ISO/IEC ISP 10611 specifies implementation options or selections such that conformant implementations will satisfy the conformance requirements of ISO/IEC 10021 and the ITU-T X.400 Recommendations.

Implementations conforming to profile AMH12 as specified in this part of ISO/IEC ISP 10611 shall implement all the mandatory support (m or 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 profiles AMH12 and/or AMH14 as specified in this part of ISO/IEC ISP 10611, it shall be stated whether or not they support any of the optional functional groups as specified in ISO/IEC ISP 10611-1 which are applicable to the scope of this profile and to the role (i.e. MTA or MTS-user) for which conformance is claimed. For each functional group for which support is claimed, an implementation shall implement all the mandatory support (m or 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 10611-1. The MHS Elements of Service corresponding to such procedures are indicated in annex A of ISO/IEC ISP 10611-1.

For implementations conforming to profiles AMH12 and/or AMH14 as specified in this part of ISO/IEC ISP 10611, the P3 application context(s) for which conformance is claimed shall be stated.

5.3 Underlying layers conformance

Implementations conforming to profiles AMH12 and/or AMH14 as specified in this part of ISO/IEC ISP 10611 shall also conform to ISO/IEC ISP 10611-2 in accordance with the P3 application context(s) for which conformance is claimed.

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Annex A[3]

(normative)

ISPICS Proforma

for ISO/IEC ISP 10611-4 (AMH12 and AMH14)

In the event of a discrepancy becoming apparent in the body of this part of ISO/IEC ISP 10611 and the tables in this annex, this annex is to take precedence.

Clause A.1 specifies the basic requirements for conformance to profiles AMH12 and AMH14. 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 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 generic term “MTS-user” is used in the tables in this annex where the distinction between different types of MTS-user is not significant. Where a column is headed “UA”, then an MS is only required to be able to pass through such elements transparently between a UA and the MTA.

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 Type of implementation

Ref	Implementation Type	Response
1	MTS-user (UA or MS)	
2	MTA	

NOTE - A separate PICS shall be completed for each implementation type for which conformance is claimed.

A.0.6 Global statement of conformance

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

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A.0.7 Statement of profile conformance

Ref	Question	Response	Comments
1	profiles implemented		
1.1	Are all mandatory requirements of profile AMH12 implemented?		
1.2	Are all mandatory requirements of profile AMH14 implemented?		
2	Are all mandatory requirements of any of the following optional functional groups implemented?		
2.1	Conversion (CV)		only applicable in the case of an MTA
2.2	Distribution List (DL)		only applicable in the case of an MTA class(es):
2.3	Physical Delivery (PD)		not applicable in the case of an MS
2.4	Redirection (RED)		only applicable in the case of an MTA
2.5	Latest Delivery (LD)		not applicable in the case of an MS
2.6	Return of Content (RoC)		
2.7	Security (SEC)		class(es):
2.8	Use of Directory (DIR)		class(es):
2.9	Simple Protected Password (SPP)		
2.10	Redirection Instructions (RED2)		not applicable in the case of an MS
2.11	Delivery Constraints (DC)		not applicable in the case of an MS
2.12	Restricted Delivery (RD)		not applicable in the case of an MS

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A.1 Basic requirements

A.1.1 Supported application contexts

Ref	Application Context	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	mts-access-88	o	c[1]	o[4]	c[1,4]		
2	mts-forced-access-88	o	c[1]	o[4]	c[1,4]		
3	mts-reliable-access-88	o	o	o[5]	o[5]		
4	mts-forced-reliable-access-88	o	o	o[5]	o[5]		
5	mts-access-94	o	c[2]	o[4]	c[2,4]		
6	mts-forced-access-94	o	c[2]	o[4]	c[2,4]		
7	mts-reliable-access-94	o	c[3]	o[5]	c[3,4]		
8	mts-forced-reliable-access-94	o	c[3]	o[5]	c[3,4]		

1 if conformance to AMH12 is claimed then m else o.

2 if conformance to AMH14 is claimed then m else n/a.

3 if conformance to AMH14 is claimed then o else n/a.

4 If either of mts-access or mts-forced-access application contexts is supported, then both of them for that "year" shall be supported.

5 If either of mts-reliable-access or mts-forced-reliable-access application contexts is supported, then all four contexts for that "year" shall be supported.

A.1.2 Supported operations

A.1.2.1 Bind and Unbind

Ref	Operation	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	MTSBind access	m	m	m	m		see A.1.3.1
2	MTSUnbind access	m	m	m	m		
3	MTSBind forced access	m	m	m	m		see A.1.3.1
4	MTSUnbind forced access	m	m	m	m		

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A.1.2.2 Message Submission Service Element (MSSE)

Ref	Operation	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	MessageSubmission	m	m	m	m		see A.1.3.2
2	ProbeSubmission	o	o	m	m		see A.1.3.3
3	CancelDeferredDelivery	o	o	m	m		see A.1.3.4
4	SubmissionControl	o	o	o	o		see A.1.3.5
NOTE - If the MTS-user is an MS, then the requirement is only to be able to pass through these operations (i.e. between the MTA and a local or remote UA) unaltered.							

A.1.2.3 Message Delivery Service Element (MDSE)

Ref	Operation	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	MessageDelivery	m	m	m	m		see A.1.3.6
2	ReportDelivery	m	m	m	m		see A.1.3.7
3	DeliveryControl	o	o	m	m		see A.1.3.8

A.1.2.4 Message Administration Service Element (MASE)

Ref	Operation	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	Register	o	o	o	o		see A.1.3.9
2	ChangeCredentials (MTA to UA)	o	o	o	o		see A.1.3.10
3	ChangeCredentials (UA to MTA)	o	o	o	o		see A.1.3.10
NOTE - For a UA or MTA, some or all of the services and functionality supported by these operations may be implemented by other means as a local matter.							

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A.1.3 Operation arguments/results

A.1.3.1 MTSBind

Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	initiator-name	m	m	m	m		
1.1.1	user-agent	c[3]	c[3]	c[3]	c[3]		see A.1.10.2
1.1.2	mTA	c[4]	c[4]	c[4]	c[4]		
1.1.3	message-store	c[5]	c[5]	c[3]	c[3]		see A.1.10.2
1.2	messages-waiting	o	c[1]	o	c[1]		
1.3	initiator-credentials	m	m	m	m		
1.3.1	simple	m	m	m	m		
1.3.1.1	octet-string	o	m	o	m		
1.3.1.2	ia5-string	o	o	o	o		
1.3.2	strong	o	o	o	o		
1.3.2.1	bind-token	m	m	m	m		see A.1.8/7
1.3.2.2	certificate	o	o	o	o		see A.1.8/8
1.3.2.3	certificate-selector	o	o	o	o		see A.1.8/10
1.3.3	protected	c[8]	c[7]	c[8]	c[7]		
1.3.3.1	signature	m	m	m	m		
1.3.3.1.1	password	o	m	o	m		
1.3.3.1.2	time1	o	o	o	o		
1.3.3.1.3	time2	o	m	o	m		
1.3.3.1.4	random1	o	m	o	m		
1.3.3.1.5	random2	o	o	o	o		
1.3.3.2	time1	o	o	o	o		
1.3.3.3	time2	o	m	o	m		
1.3.3.4	random1	o	o	o	o		

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Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1.3.3.5	random2	o	o	o	o		
1.4	security-context	o	o	o	o		see A.1.9/3
1.5	extensions	c[8]	c[7]	c[8]	c[7]		
2	RESULT						
2.1	responder-name	m	m	m	m		
2.1.1	user-agent	c[4]	c[4]	c[4]	c[4]		see A.1.10.2
2.1.2	mTA	c[3]	c[3]	c[3]	c[3]		
2.1.3	message-store	c[6]	c[6]	c[4]	c[4]		see A.1.10.2
2.2	messages-waiting	o	c[2]	o	c[2]		
2.3	responder-credentials	m	m	m	m		
2.3.1	simple	m	m	m	m		
2.3.1.1	octet-string	o	m	o	m		
2.3.1.2	ia5-string	o	o	o	o		
2.3.2	strong	o	o	o	o		
2.3.2.1	bind-token	m	m	m	m		
2.3.2.1.1	signature-algorithm-identifier	m	m	m	m		
2.3.2.1.2	name	m	m	m	m		
2.3.2.1.3	time	m	m	m	m		
2.3.2.1.4	signed-data	o	o	o	o		
2.3.2.1.5	encryption-algorithm-identifier	o	o	o	o		
2.3.2.1.6	encrypted-data	o	o	o	o		
2.3.2.2	certificate	o	o	o	o		see A.1.8/8
2.3.2.3	certificate-selector	o	o	o	o		see A.1.8/10
2.3.3	protected	c[8]	c[7]	c[8]	c[7]		
2.3.3.1	signature	m	m	m	m		
2.3.3.1.1	password	o	m	o	m		

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Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
2.3.3.1.2	time1	o	o	o	o		
2.3.3.1.3	time2	o	m	o	m		
2.3.3.1.4	random1	o	m	o	m		
2.3.3.1.5	random2	o	o	o	o		
2.3.3.2	time1	o	o	o	o		
2.3.3.3	time2	o	m	o	m		
2.3.3.4	random1	o	o	o	o		
2.3.3.5	random2	o	o	o	o		
2.4	extensions	c[8]	c[7]	c[8]	c[7]		

1 - if the MTA is the initiator then o else –

2 - if the MTS-user is the initiator then o else –

3 - if the MTS-user is the initiator then m else –

4 - if the MTA is the initiator then m else –

5 - if the MTS-user is a MS and is the initiator then m else –

6 - if the MTS-user is a MS and the MTA is the initiator then m else –

7 - if conformance to AMH14 is claimed then o else –

8 if any access-94 application context is supported (A.1.1 items 5, 6, 7 or 8) then o else –

A.1.3.2 MessageSubmission

Ref	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	envelope	m	m	m	m		see A.1.4
1.2	content	m	m	m	m		
2	RESULT						
2.1	message-submission-identifier	m	m	m	m		see A.1.8/1
2.2	message-submission-time	m	m	m	m		
2.3	content-identifier	o	c[1]	m	m		
2.4	extensions	m	m	m	m		see A.1.9/1

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Ref	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
2.4.1	originating-MTA-certificate	o	i	o	i		see A.1.8/8
2.4.2	proof-of-submission	o	i	o	i		see A.1.9/7
2.4.3	originating-MTA-certificate-selector	o	i	o	i		see A.1.8/10
2.4.4	extensions	c[3]	c[2]	c[3]	c[2]		

1 if supported in message submission envelope then m else –

2 if conformance to AMH14 is claimed then o else –

3 if any access-94 application context is supported (A.1.1 items 5, 6, 7 or 8) then o else –

A.1.3.3 ProbeSubmission

Ref	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	envelope	m	m	m	m		see A.1.5
2	RESULT						
2.1	probe-submission-identifier	m	m	m	m		see A.1.8/1
2.2	probe-submission-time	m	m	m	m		
2.3	content-identifier	o	c[1]	m	m		
2.4	PrivateExtensions	c[3]	c[2]	c[3]	c[2]		

1 if supported in probe submission envelope then m else –

2 if conformance to AMH14 is claimed then o else –

3 if any access-94 application context is supported (A.1.1 items 5, 6, 7 or 8) then o else –

A.1.3.4 CancelDeferredDelivery

Ref	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	message-submission-identifier	m	m	m	m		see A.1.8/1
2	RESULT						

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Ref	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
2.1	NULL	m	m	m	m		

A.1.3.5 SubmissionControl

Ref	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	controls	m	m	m	m		
1.1.1	restrict	m	m	o	m		
1.1.2	permissible-operations	m	m	o	o		
1.1.3	permissible-maximum-content-length	m	m	o	o		
1.1.4	permissible-lowest-priority	m	m	o	o		
1.1.5	permissible-security-context	o	o	o	o		see A.1.9/3
2	RESULT						
2.1	waiting	m	m	m	m		
2.1.1	waiting-operations	o	o	m	m		
2.1.2	waiting-messages	o	o	m	m		
2.1.3	waiting-content-types	o	o	m	m		
2.1.4	waiting-encoded-information-types	o	o	m	m		see A.1.8/3

A.1.3.6 MessageDelivery

Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	(envelope)	m	m	m	m		see A.1.6
1.2	content	m	m	m	m		
2	RESULT						

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Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
2.1	recipient-certificate	o	o	o	o		see A.1.8/8
2.2	proof-of-delivery	o	o	o	o		see A.1.9/6
2.3	recipient-certificate-selector	o	o	o	o		see A.1.8/10
2.4	extensions	c^1	c^2	c^1	c^2		

1 if any access-94 application context is supported (A.1.1 items 5, 6, 7 or 8) then o else –

2 if conformance to AMH14 is claimed then o else –

A.1.3.7 ReportDelivery

Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	(envelope)	m	m	m	m		see A.1.7
1.2	returned-content	o	c^1	o	c^1		
2	RESULT						
2.1	NULL	c^2	c^4	c^2	c^4		
2.2	extensions	c^3	c^5	c^3	c^5		

1 if supported in message submission envelope then m else –

2 if any access-88 application context is supported (A.1.1 items 1, 2, 3 or 4) then m else o

3 if any access-94 application context is supported (A.1.1 items 5, 6, 7 or 8) then o else –

4 if conformance to AMH12 is claimed then m else –

5 if conformance to AMH14 is claimed then o else –

A.1.3.8 DeliveryControl

Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	controls	m	m	m	m		
1.1.1	restrict	m	m	m	m		
1.1.2	permissible-operations	o	o	m	m		

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Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1.1.3	permissible-maximum-content-length	o	o	m	m		
1.1.4	permissible-lowest-priority	o	o	m	m		
1.1.5	permissible-content-types	o	o	m	m		
1.1.6	permissible-encoded-information-types	o	o	m	m		if conformance to AMH12 is claimed see A.1.8/3
1.1.6.1	unacceptable-eits	c^1	c^3	c^1	c^3		
1.1.6.2	acceptable-eits	c^1	c^3	c^1	c^3		
1.1.6.3	exclusively-acceptable-eits	c^1	c^2	c^1	c^2		
1.1.7	permissible-security-context	o	o	o	o		see A.1.9/3
1.2	extensions	c^1	c^2	c^1	c^2		
2	RESULT						
2.1	waiting	m	m	m	m		
2.1.1	waiting-operations	m	m	o	o		
2.1.2	waiting-messages	m	m	o	o		
2.1.3	waiting-content-types	m	m	o	o		
2.1.4	waiting-encoded-information-types	m	m	o	o		see A.1.8/3
2.2	extensions	c^1	c^2	c^1	c^2		

1 if any access-94 application context is supported (A.1.1 items 5, 6, 7 or 8) then o else –

2 if conformance to AMH14 is claimed then o else –

3 if conformance to AMH14 is claimed then m else –

A.1.3.9 AMH12 Register

This classification applies only to the AMH12 context. (The AMH14 register operation is specified in A.1.3.11)

Ref	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	user-name	o	o	o	o		see A.1.10.2

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Ref	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1.2	user-address	o	o	o	o		
1.3	deliverable-encoded-information-types	o	o	o	m		see A.1.8/3
1.4	deliverable-maximum-content-length	o	o	o	m		
1.5	default-delivery-controls	o	o	o	o		
1.5.1	restrict	o	o	o	m		
1.5.2	permissible-operations	o	o	o	m		
1.5.3	permissible-maximum-content-length	o	o	o	m		
1.5.4	permissible-lowest-priority	o	o	o	m		
1.5.5	permissible-content-types	o	o	o	m		
1.5.6	permissible-encoded-information-types	o	o	o	m		see A.1.8/3
1.6	deliverable-content-types	o	o	o	m		
1.7	labels-and-redirections	o	o	o	o		
1.7.1	user-security-label	o	o	o	o		see A.1.9/3
1.7.2	recipient-assigned-alternate-recipient	o	o	o	o		
2	RESULT						
2.1	NULL	m	m	m	m		

A.1.3.10 ChangeCredentials

Ref	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	old-credentials	m	m	m	m		
1.1.1	simple	m	m	m	m		
1.1.1.1	octet-string	o	m	o	m		

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Ref	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1.1.1.2	ia5-string	o	o	o	o		
1.2	new-credentials	m	m	m	m		
1.2.1	simple	m	m	m	m		
1.2.1.1	octet-string	o	m	o	m		
1.2.1.2	ia5-string	o	o	o	o		
2	RESULT						
2.1	NULL	m	m	m	m		

A.1.3.11 AMH14 Register

This classification applies only to the AMH14 context. (The AMH12 register operation is specified in A.1.3.9)

Ref	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	user-name	o	o	o	o		see A.1.10.2
1.2	user-address	o	o	o	o		
1.3	deliverable-class	o	o	o	o		
1.3.1	content-types	o	o	o	o		
1.3.2	maximum-content-length	o	o	o	o		
1.3.3	acceptable-encoded-information-types-constraints	o	o	o	o		

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Ref	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1.3.3.1	unacceptable-eits	o	m	m	m		
1.3.3.2	acceptable-eits	o	m	m	m		
1.3.3.3	exclusively-acceptable-eits	o	m	m	m		
1.3.4	security-labels	o	o	o	o		
1.3.5	extensions	o	o	o	o		
1.4	default-delivery-controls	o	o	o	o		
1.4.1	permissible-operations	o	o	o	m		
1.4.2	permissible-maximum-content-length	o	o	o	m		
1.4.3	permissible-lowest-priority	o	o	o	m		
1.4.4	permissible-content-types	o	o	o	m		
1.4.5	permissible-encoded-information-types	o	o	o	m		
1.4.5.1	unacceptable-eits	o	m	o	m		
1.4.5.2	acceptable-eits	o	m	o	m		
1.4.5.3	exclusively-acceptable-eits	o	o	o	o		
1.5	redirections	o	o	o	o		
1.5.1	redirections-classes	o	o	o	o		
1.5.1.1	content-types	o	o	o	o		
1.5.1.2	maximum-content-length	o	o	o	o		
1.5.1.3	acceptable-encoded-information-types-constraints	o	o	o	o		
1.5.1.3.1	unacceptable-eits	o	m	o	m		
1.5.1.3.2	acceptable-eits	o	m	o	m		
1.5.1.3.3	exclusively-acceptable-eits	o	m	o	m		
1.5.1.4	security-labels	o	o	o	o		see A.1.9/3
1.5.1.5	priority	o	o	o	o		
1.5.1.6	objects	o	o	o	m		

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Ref	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1.5.1.6.1	messages	o	o	o	o		
1.5.1.6.2	reports	o	o	o	o		
1.5.1.6.3	both	o	o	o	m		
1.5.1.7	applies-only-to	o	o	o	o		
1.5.1.8	extensions	o	o	o	o		
1.5.2	recipient-assigned-alternate-recipient	o	m	o	m		
1.6	redirected-delivery	o	o	o	o		see A.1.8/6
1.7	retrieve-registrations	o	o	o	o		
1.7.1	standard-parameters	o	m	o	m		
1.7.1.1	user-name	o	c^1	o	c^1		
1.7.1.2	user-address	o	c^1	o	c^1		
1.7.1.3	deliverable-class	o	c^1	o	c^1		
1.7.1.4	default-delivery-controls	o	c^1	o	c^1		
1.7.1.5	redirections	o	c^1	o	c^1		
1.7.1.6	restricted-delivery	o	c^1	o	c^1		
1.7.2	extensions	o	c^1	o	c^1		
1.8	extensions	o	o	o	o		
2	RESULT						
2.1	empty-result	o	m	o	m		
2.2	non-empty-result	o	c^2	o	c^2		
2.2.1	registered information	o	m	o	m		
2.2.1.1	user-name	o	o	o	o		see A.1.10.2
2.2.1.2	user-address	o	o	o	o		
2.2.1.3	deliverable-class	o	c^3	o	c^3		
2.2.1.3.1	content-types	o	c^3	o	c^3		
2.2.1.3.2	maximum-content-length	o	c^3	o	c^3		

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Ref	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
2.2.1.3.3	acceptable-encoded-information-types-constraints	o	c[3]	o	c[3]		
2.2.1.3.3.1	unacceptable-eits	o	m	o	m		
2.2.1.3.3.2	acceptable-eits	o	m	o	m		
2.2.1.3.3.3	exclusively-acceptable-eits	o	m	o	m		
2.2.1.3.4	security-labels	o	c[3]	o	c[3]		
2.2.1.3.5	extensions	o	c[3]	o	c[3]		
2.2.1.4	default-delivery-controls	o	c[3]	o	c[3]		
2.2.1.4.1	restrict	o	-	o	-		
2.2.1.4.2	permissible-operations	o	c[3]	o	c[3]		
2.2.1.4.3	permissible-maximum-content-length	o	c[3]	o	c[3]		
2.2.1.4.4	permissible-lowest-priority	o	c[3]	o	c[3]		
2.2.1.4.4	permissible-content-types	o	c[3]	o	c[3]		
2.2.1.4.6	permissible-encoded-information-types	o	c[3]	o	c[3]		
2.2.1.4.6.1	unacceptable-eits	o	m	o	m		
2.2.1.4.6.2	acceptable-eits	o	m	o	m		
2.2.1.4.6.3	exclusively-acceptable-eits	o	o	o	o		
2.2.1.5	redirections	o	c[3]	o	c[3]		
2.2.1.5.1	redirections-classes	o	c[3]	o	c[3]		
2.2.1.5.1.1	content-types	o	c[3]	o	c[3]		
2.2.1.5.1.2	maximum-content-length	o	c[3]	o	c[3]		
2.2.1.5.1.3	acceptable-encoded-information-types-constraints	o	c[3]	o	c[3]		
2.2.1.5.1.3.1	unacceptable-eits	o	m	o	m		
2.2.1.5.1.3.2	acceptable-eits	o	m	o	m		

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Ref	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
2.2.1.5.1.3.3	exclusively-acceptable-eits	o	m	o	m		
2.2.1.5.1.4	security-labels	o	c[3]	o	c[3]		
2.2.1.5.1.5	priority	o	c[3]	o	c[3]		
2.2.1.5.1.6	objects	o	m	o	m		
2.2.1.5.1.6.1	messages	o	o	o	o		
2.2.1.5.1.6.2	reports	o	o	o	o		
2.2.1.5.1.6.3	both	o	m	o	m		
2.2.1.5.1.7	applies-only-to	o	c[3]	o	c[3]		
2.2.1.5.1.8	extensions	o	c[3]	o	c[3]		
2.2.1.5.2	recipient-assigned-alternate-recipient	o	m	o	m		
2.2.1.6	redirected-delivery	o	c[3]	o	c[3]		see A.1.8/6
2.2.1.7	extensions	o	c[3]	o	c[3]		
2.2.2	extensions	o	o	o	o		

1 if the corresponding attribute is supported as an argument then o else not applicable.

2 If item 1.7 is supported then m else o.

3 if the corresponding attribute is supported as an argument then m else not applicable.

A.1.4 MessageSubmissionEnvelope

Ref	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	originator-name	m	m	m	m		see A.1.10.2
2	original-encoded-information-types	m	m	m	m-		see A.1.8/3
3	content-type	m	m	m	m-		
4	content-identifier	o	o	m	m		
5	priority	m	m	m	m		
6	per-message-indicators	m	m	m	m		see A.1.8/5

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Ref	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
7	deferred-delivery-time	o	o	m	m		
8	extensions	m	m	m	m		see A.1.9/1
8.1	recipient-reassignment-prohibited	o	m[1]	o	m		
8.2	dl-expansion-prohibited	o	m[1]	o	m		
8.3	conversion-with-loss-prohibited	o	o	o	m		
8.4	latest-delivery-time	o	o	o	o		
8.5	originator-return-address	o	o	o	o		see A.1.10.1
8.6	originator-certificate	o	o	o	o		see A.1.8/8
8.7	content-confidentiality-algorithm-identifier	o	o	o	o		
8.8	message-origin-authentication-check	o	o	o	o		see A.1.9/2
8.9	message-security-label	o	o	o	o		see A.1.9/3
8.10	proof-of-submission-request	o	i	o	i		
8.11	content-correlator	o	o	m	m		
8.12	certificate-selectors	o	o	o	o		see A.1.9/9
8.13	multiple-originator-certificates	o	o	o	o		see A.1.9/11
8.14	dl-exempted-recipients	o	o	o	o		see A.1.10.1
8.15	PrivateExtensions	c[2]	c[3]	c[2]	c[3]		
9	per-recipient-fields	m	m	m	m		
9.1	recipient-name	m	m	m	m		see A.1.10.1
9.2	originator-report-request	m	m	m	m		
9.3	explicit-conversion	o	o	o	m-		
9.4	extensions	m	m	m	m		see A.1.9/1
9.4.1	originator-requested-alternate-recipient	o	o	o	o		see A.1.10.1
9.4.2	requested-delivery-method	o	o	o	o		
9.4.3	physical-forwarding-prohibited	o	o	o	o		

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Ref	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
9.4.4	physical-forwarding-address-request	o	o	o	o		
9.4.5	physical-delivery-modes	o	o	o	o		
9.4.6	registered-mail-type	o	o	o	o		
9.4.7	recipient-number-for-advice	o	o	o	o		
9.4.8	physical-rendition-attributes	o	o	o	o		
9.4.9	physical-delivery-report-request	o	o	o	o		
9.4.10	message-token	o	o	o	o		see A.1.9/4
9.4.11	content-integrity-check	o	o	o	o		
9.4.12	proof-of-delivery-request	o	o	o	o		
9.4.13	certificate-selectors-override	o	o	o	o		see A.1.9/10
9.4.14	recipient-certificate	o	o	o	o		see A.1.8/8
9.4.15	IPMPerRecipientEnvelopeExtensions	o	o	o	o		
9.4.16	PrivateExtensions	c[2]	c[3]	c[2]	c[3]		

1 only the capability to generate the "prohibited" value is required

2 f any access-94 application context is supported (A.1.1 items 5, 6, 7 or 8) then o else –

3 f conformance to AMH14 is claimed then o else –

A.1.5 ProbeSubmissionEnvelope

Ref	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	originator-name	m	m	m	m		see A.1.10.2
2	original-encoded-information-types	m	m	m	m-		see A.1.8/3
3	content-type	m	m	m	m-		
4	content-identifier	o	o	m	m		
5	content-length	o	m	m	m		
6	per-message-indicators	m	m	m	m		see A.1.8/5

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Ref	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
7	extensions	m	m	m	m		see A.1.9/1
7.1	recipient-reassignment-prohibited	o	m[1]	o	m		
7.2	dl-expansion-prohibited	o	m[1]	o	m		
7.3	conversion-with-loss-prohibited	o	o	o	m		
7.4	originator-certificate	o	o	o	o		see A.1.8/8
7.5	message-security-label	o	o	o	o		see A.1.9/3
7.6	content-correlator	o	o	m	m		
7.7	probe-origin-authentication-check	o	o	o	o		see A.1.9/5
7.8	certificate-selectors	o	o	o	o		see A.1.9/9
7.9	PrivateExtensions	c[2]	c[3]	c[2]	c[3]		
8	per-recipient-fields	m	m	m	m		
8.1	recipient-name	m	m	m	m		see A.1.10.1
8.2	originator-report-request	m	m	m	m		
8.3	explicit-conversion	o	o	o	m-		
8.4	extensions	m	m	m	m		see A.1.9/1
8.4.1	originator-requested-alternate-recipient	o	o	o	o		see A.1.10.1
8.4.2	requested-delivery-method	o	o	o	o		
8.4.3	physical-rendition-attributes	o	o	o	o		
8.4.4	PrivateExtensions	c[2]	c[3]	c[2]	c[3]		

1 only the capability to generate the "prohibited" value is required

2 if any access-94 application context is supported (A.1.1 items 5, 6, 7 or 8) then o else –

3 if conformance to AMH14 is claimed then o else –

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A.1.6 MessageDeliveryEnvelope

Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	message-delivery-identifier	m	m	m	m		see A.1.8/1
2	message-delivery-time	m	m	m	m		
3	other-fields	m	m	m	m		
3.1	content-type	m	m	m	m		
3.2	originator-name	m	m	m	m		see A.1.10.1
3.3	original-encoded-information-types	m	m	m	m		see A.1.8/3
3.4	priority	m	m	m	m		
3.5	delivery-flags	m	m	m	m		
3.5.1	implicit-conversion-prohibited	m	m	m	m		
3.6	other-recipient-names	m	m	m	m		see A.1.10.1
3.7	this-recipient-name	m	m	m	m		see A.1.10.1
3.8	originally-intended-recipient-name	m	m	m	m		see A.1.10.1
3.9	converted-encoded-information-types	m	m	m	m		see A.1.8/3
3.10	message-submission-time	m	m	m	m		
3.11	content-identifier	o	m	m	m		
3.12	extensions	m	m	m	m		see A.1.9/1
3.12.1	conversion-with-loss-prohibited	o	o	o	m		
3.12.2	requested-delivery-method	o	o	o	o		
3.12.3	physical-forwarding-prohibited	o	o	o	o		
3.12.4	physical-forwarding-address-request	o	o	o	o		
3.12.5	physical-delivery-modes	o	o	o	o		
3.12.6	registered-mail-type	o	o	o	o		
3.12.7	recipient-number-for-advice	o	o	o	o		
3.12.8	physical-rendition-attributes	o	o	o	o		

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Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
3.12.9	originator-return-address	o	o	o	o		
3.12.10	physical-delivery-report-request	o	o	o	o		
3.12.11	originator-certificate	o	o	o	o		see A.1.8/8
3.12.12	message-token	o	o	o	o		see A.1.9/4
3.12.13	content-confidentiality-algorithm-identifier	o	o	o	o		
3.12.14	content-integrity-check	o	o	o	o		
3.12.15	message-origin-authentication-check	o	o	o	o		see A.1.9/2
3.12.16	message-security-label	o	o	o	o		see A.1.9/3
3.12.17	proof-of-delivery-request	o	o	o	o		
3.12.18	redirection-history	o	o	m	m		
3.12.19	dl-expansion-history	o	o	m	m		
3.12.20	trace-information	c^1	c^2	c^1	c^2		
3.12.21	internal-trace-information	c^1	c^2	c^1	c^2		
3.12.22	certificate-selectors	o	o	o	o		see A.1.9/9
3.12.23	certificate-selectors-override	o	o	o	o		see A.1.9/10
3.12.24	multiple-originator-certificates	o	o	o	o		see A.1.9/11
3.12.25	recipient-certificate	o	o	o	o		see A.1.8/8
3.12.26	dl-exempted-recipients	o	o	o	o		see A.1.10.1
3.12.27	IPMPerRecipientEnvelope Extensions	o	o	o	o		
3.12.28	PrivateExtensions	c^1	c^2	c^1	c^2		

1 if any access-94 application context is supported (A.1.1 items 5, 6, 7 or 8) then o else –

2 if conformance to AMH14 is claimed then o else –

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A.1.7 ReportDeliveryEnvelope

Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	subject-submission-identifier	m	m	m	m		see A.1.8/1
2	content-identifier	o	c[1]	m	m		
3	content-type	m	m	m	m		
4	original-encoded-information-types	m	m	m	m		see A.1.8/3
5	extensions	m	m	m	m		see A.1.9/1
5.1	message-security-label	o	c[1]	o	o		see A.1.9/3
5.2	content-correlator	o	c[1]	m	m		
5.3	redirection-history	c[2]	c[4]	c[3]	c[5]		
5.4	originator-and-DL-expansion-history	m	m	m	m		
5.5	reporting-DL-name	o	m	o	m		see A.1.10.1
5.6	reporting-MTA-certificate	o	o	o	o		see A.1.8/8
5.7	report-origin-authentication-check	o	o	o	o		see A.1.9/8
5.8	trace-information	c[2]	c[4]	c[2]	c[4]		
5.9	internal-trace-information	c[2]	c[4]	c[2]	c[4]		
5.10	reporting-MTA-certificate-selector	o	o	o	o		see A.1.8/10
5.11	reporting-MTA-name	c[2]	c[4]	c[3]	c[5]		see A.1.9/12
5.12	PrivateExtensions	c[2]	c[4]	c[2]	c[4]		
6	per-recipient-fields	m	m	m	m		
6.1	actual-recipient-name	m	m	m	m		see A.1.10.1
6.2	delivery	m	m	m	m		
6.2.1	message-delivery-time	m	m	m	m		
6.2.2	type-of-MTS-user	m	m	m	m		
6.3	non-delivery	m	m	m	m		
6.3.1	non-delivery-reason-code	m	m	m	m		

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Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
6.3.2	non-delivery-diagnostic-code	o	m	m	m		
6.4	converted-encoded-information-types	m	m	m	m		see A.1.8/3
6.5	originally-intended-recipient-name	m	m	m	m		see A.1.10.1
6.6	supplementary-information	o	o	o	m		
6.7	extensions	m	m	m	m		see A.1.9/1
6.7.1	redirection-history	o	o	m	m		
6.7.2	physical-forwarding-address	o	c[1]	o	o		
6.7.3	recipient-certificate	o	o	o	o		see A.1.8/8
6.7.4	proof-of-delivery	o	c[1]	o	c[1]		see A.1.9/6
6.7.5	recipient-certificate-selector	o	o	o	o		see A.1.8/10
6.7.6	PrivateExtensions	c[2]	c[4]	c[2]	c[4]		

1 if supported in message submission envelope then m else i

2 if any access-94 application context is supported (A.1.1 items 5, 6, 7 or 8) then o else –

3 if any access-94 application context is supported (A.1.1 items 5, 6, 7 or 8) then m else o

4 if conformance to AMH14 is claimed then o else –

5 if conformance to AMH14 is claimed then m else –

A.1.8 Common data types

Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	MTSIdentifier						
1.1	global-domain-identifier	m	m	m	m		see A.1.8/2
1.2	local-identifier	m	m	m	m		
2	GlobalDomainIdentifier						
2.1	country-name	m	m	m	m		
2.2	administration-domain-name	m	m	m	m		
2.3	private-domain-identifier	m	m	m	m		

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Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
3	EncodedInformationTypes						
3.1	built-in-encoded-information-types	m	m	m	m		
3.2	(non-basic parameters)	o	o	o	o		
3.3	extended-encoded-information-types	m	m	m	m		
4	ContentType						
4.1	built-in	o	o	o	m		
4.2	extended	o	o	o	m		
5	PerMessageIndicators						
5.1	disclosure-of-other-recipients	o	o	m	m		
5.2	implicit-conversion-prohibited	m	m	m	m		
5.3	alternate-recipient-allowed	o	o	m	m		
5.4	content-return-request	o	o	o	o		
5.5	reserved	o	o	o	m-		
5.6	bit-5	o	o	o	m-		
5.7	bit-6	o	o	o	m-		
5.8	service-message	o	o	o	m-		
6	Restricted						
6.1	permitted	o	m	o	m		
6.2	source-type	o	m	o	m		
6.2.1	originated-by	o	m	o	m		
6.2.2	redirected-by	o	m	o	m		
6.2.3	dl-expanded-by	o	m	o	m		
6.3	source-name	o	m	o	m		
6.3.1	exact-match	o	m	o	m		

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Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
6.3.2	pattern-match	o	m	o	m		
7	BindToken	m	m	m	m		
7.1	signature-algorithm-identifier	m	m	m	m		
7.2	name	m	m	m	m		
7.3	time	m	m	m	m		
7.4	signed-data	m	m	m	m		
7.5	encryption-algorithm-identifier	o	o	o	o		
7.6	encrypted-data	o	o	o	o		
8	Certificates						
8.1	userCertificate	m	m	m	m		see A.1.8/9
8.2	certificationPath	o	m	o	m		see A.1.8/9
9	Certificate						
9.1	version	o	m	o	m		
9.2	serialNumber	m	m	m	m		
9.3	signature	m	m	m	m		
9.4	issuer	m	m	m	m		
9.5	validity	m	m	m	m		
9.6	subject	m	m	m	m		
9.7	subjectPublicKeyInfo	m	m	m	m		
9.8	issuerUniqueIdentifier	o	o	o	o		
9.9	subjectUniqueIdentifier	o	o	o	o		
9.10	extensions	m	m	m	m		
9.10.1	authorityKeyIdentifier	o	o	o	o		
9.10.2	subjectKeyIdentifier	o	o	o	o		
9.10.3	keyUsage	o	m	o	m		

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Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
9.10.4	extKeyUsage	o	o	o	o		
9.10.5	privateKeyUsagePeriod	o	m	o	m		
9.10.6	certificatePolicies	o	m	o	m		
9.10.7	policyMappings	o	o	o	o		
9.10.8	subjectAltName	o	m	o	m		
9.10.8.1	otherName	o	m-	o	m-		
9.10.8.1.1	mta-name	o	m-	o	m-		
9.10.8.2	rfc822Name	–	–	–	–		
9.10.8.3	dNSName	–	–	–	–		
9.10.8.4	x400Address	o	m-	o	m-		
9.10.8.5	directoryName	o	m-	o	m-		
9.10.8.6	ediPartyName	–	–	–	–		
9.10.8.7	uniformResourceIdentifier	–	–	–	–		
9.10.8.8	iPAddress	–	–	–	–		
9.10.8.9	registeredID	–	–	–	–		
9.10.9	issuerAltName	o	o	o	o		
9.10.10	subjectDirectoryAttributes	o	o	o	o		
9.10.11	basicConstraints	o	m	o	m		
9.10.12	nameConstraints	o	o	o	o		
9.10.13	policyConstraints	o	o	o	o		
9.10.14	cRLDistributionPoints	o	o	o	o		
10	CertificateAssertion						
10.1	serialNumber	o	m	o	m		
10.2	issuer	o	m	o	m		
10.3	subjectKeyIdentifier	o	m	o	m		
10.4	authorityKeyIdentifier	o	m	o	m		

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Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
10.5	certificateValid	o	m	o	m		
10.6	privateKeyValid	o	m	o	m		
10.7	subjectPublicKeyAlgID	o	m	o	m		
10.8	keyUsage	o	m	o	m		
10.9	subjectAltName	o	m	o	m		
10.10	policy	o	m	o	m		
10.11	pathToName	–	–	–	–		

A.1.9 Extension data types

Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	ExtensionField						
1.1	type	o	m	m	m		
1.1.1	standard-extension	m	m	m	m		
1.1.2	private-extension	o	o	o	m-		see A.3.6
1.2	criticality	m	m	m	m		
1.3	value	m	m	m	m		
2	MessageOriginAuthenticationCheck						
2.1	algorithm-identifier	m	m	m	m		
2.2	content	m	m	m	m		
2.3	content-identifier	o	m	o	m		
2.4	message-security-label	o	m	o	m		see A.1.9/3
3	SecurityLabel						also named message security label
3.1	security-policy-identifier	o	o	o	m-		
3.2	security-classification	o	o	o	m-		

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Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
3.3	privacy-mark	o	o	o	m-		
3.4	security-categories	o	o	o	m-		
4	MessageToken						
4.1	token-type-identifier	m	m	m	m		
4.2	asymmetric-token	m	m	m	m		
4.2.1	signature-algorithm-identifier	m	m	m	m		
4.2.2	name	m	m	m	m		
4.2.3	time	m	m	m	m		
4.2.4	signed-data	o	o	o	m-		
4.2.4.1	content-confidentiality-algorithm-identifier	o	o	o	m-		
4.2.4.2	content-integrity-check	o	o	o	m-		
4.2.4.3	message-security-label	o	o	o	m-		see A.1.9/3
4.2.4.4	proof-of-delivery-request	o	o	o	m-		
4.2.4.5	message-sequence-number	o	o	o	m-		
4.2.5	encryption-algorithm-identifier	o	o	o	m-		
4.2.6	encrypted-data	o	o	o	m-		
4.2.6.1	content-confidentiality-key	o	o	o	m-		
4.2.6.2	content-integrity-check	o	o	o	m-		
4.2.6.3	message-security-label	o	o	o	m-		see A.1.9/3
4.2.6.4	content-integrity-key	o	o	o	m-		
4.2.6.5	message-sequence-number	o	o	o	m-		
5	ProbeOriginAuthenticationCheck						
5.1	algorithm-identifier	m	m	m	m		
5.2	content-identifier	o	m	o	m		
5.3	message-security-label	o	m	o	m		see A.1.9/3

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Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
6	ProofOfDelivery						
6.1	algorithm-identifier	m	m	m	m		
6.2	delivery-time	m	m	m	m		
6.3	this-recipient-name	m	m	m	m		see A.1.10.1
6.4	originally-intended-recipient-name	o	o	o	m		see A.1.10.1
6.5	content	m	m	m	m		
6.6	content-identifier	o	m	o	m		
6.7	message-security-label	o	m	o	m		see A.1.9/3
7	ProofOfSubmission						
7.1	algorithm-identifier	m	m	m	m		
7.2	message-submission-envelope	m	m	m	m		
7.3	content	m	m	m	m		
7.4	message-submission-identifier	m	m	m	m		
7.5	message-submission-time	m	m	m	m		
8	ReportOriginAuthenticationCheck						
8.1	algorithm-identifier	m	m	m	m		
8.2	content-identifier	o	m	o	m		
8.3	message-security-label	o	m	o	m		see A.1.9/3
8.4	per-recipient	m	m	m	m		
8.4.1	actual-recipient-name	m	m	m	m		see A.1.10.1
8.4.2	originally-intended-recipient-name	o	m	o	m		see A.1.10.1
8.4.3	delivery	o	m	o	m		
8.4.3.1	message-delivery-time	m	m	m	m		
8.4.3.2	type-of-MTS-user	m	m	m	m		

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Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
8.4.3.3	recipient-certificate	o	m	o	m		see A.1.8/8
8.4.3.4	proof-of-delivery	o	m	o	m		see A.1.9/6
8.4.3.5	recipient-certificate-selector	o	m	o	m		see A.1.8/10
8.4.4	non-delivery	o	m	o	m		
8.4.4.1	non-delivery-reason-code	m	m	m	m		
8.4.4.2	non-delivery-diagnostic-code	o	m	o	m		
9	CertificateSelectors						
9.1	encryption-recipient	o	m-	o	m-		see A.1.8/10
9.2	encryption-originator	o	m-	o	m-		see A.1.8/10
9.3	content-integrity-check	o	m-	o	m-		see A.1.8/10
9.4	token-signature	o	m-	o	m-		see A.1.8/10
9.5	message-origin-authentication	o	m-	o	m-		see A.1.8/10
10	CertificateSelectorsOverride						
10.1	encryption-recipient	o	m-	o	m-		see A.1.8/10
10.2	encryption-originator	o	m-	o	m-		see A.1.8/10
10.3	content-integrity-check	o	m-	o	m-		see A.1.8/10
10.4	token-signature	o	m-	o	m-		see A.1.8/10
11	ExtendedCertificate						
11.1	directory-entry	o	m-	o	m-		
11.2	certificate	o	m	o	m		see A.1.8/8
12	ReportingMTAName						
12.1	domain	m	m	m	m		see A.1.8/2
12.2	mta-name	m	m	m	m		
12.3	mta-directory-name	o	m-	o	m-		

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A.1.10 OR-names

A.1.10.1 OR-name forms for identification of remote MTS-users

Ref	OR-Name Form	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	mnemonic OR-address	m	m	m	m-		see A.1.10.3
2	numeric OR-address	o	o	m	m-		see A.1.10.4
3	terminal OR-address	o	o	m	m-		see A.1.10.5
4	formatted postal OR-address	o	o	o	m-		see A.1.10.6
5	unformatted postal OR-address	o	o	o	m-		see A.1.10.7
6	directory-name	o	o	o	c[1]		
1 if the Designation of Recipient by Directory Name EoS is supported then m else if the OR-address is also present then m- else o							

A.1.10.2 OR-name forms for local MTS-user authentication

Ref	OR-Name Form	MTS-user				Support	Notes/References
		Base	Profile				
1	mnemonic OR-address	o	m				see A.1.10.3
2	numeric OR-address	o	o				see A.1.10.4
3	terminal OR-address	o	o				see A.1.10.5
4	formatted postal OR-address	—	—				
5	unformatted postal OR-address	—	—				
6	directory-name	o	o				
NOTE For the MTA the registration capabilities are stated in table A.3.4.							

The following tables shall be completed according to the OR-address forms for which support is claimed above.

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A.1.10.3 Mnemonic OR-address

Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	built-in-standard-attributes	m	m	m	m		
1.1	country-name	m	m	m	m		
1.2	administration-domain-name	m	m	m	m		
1.3	private-domain-name	o	m	o	m-		
1.4	organization-name	o	m	o	m-		
1.5	personal-name	o	m	o	m-		
1.5.1	surname	m	m	m	m		
1.5.2	given-name	o	m	o	m-		
1.5.3	initials	o	m	o	m-		
1.5.4	generation-qualifier	o	m	o	m-		
1.6	organizational-unit-names	o	m	o	m-		
2	built-in-domain-defined-attributes	o	m	o	m-		
3	extension-attributes	o	m	o	m-		
3.1	common-name	o	m	o	m-		
3.2	teletex-common-name	o	m	o	m-		
3.3	universal-common-name	o	m	o	m-		see A.1.10.8
3.4	teletex-organization-name	o	m	o	m-		
3.5	universal-organization-name	o	m	o	m-		see A.1.10.8
3.6	teletex-personal-name	o	m	o	m-		
3.6.1	surname	m	m	m	m		
3.6.2	given-name	o	m	o	m-		
3.63	initials	o	m	o	m-		
3.6.4	generation-qualifier	o	m	o	m-		
3.7	universal-personal-name	o	m	o	m-		
3.7.1	surname	m	m	m	m		see A.1.10.8

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3.7.2	given-name	o	m	o	m-		see A.1.10.8
3.7.3	initials	o	m	o	m-		see A.1.10.8
3.7.4	generation-qualifier	o	m	o	m-		see A.1.10.8
3.8	teletex-organizational-unit-names	o	m	o	m-		
3.9	universal-organizational-unit-names	o	m	o	m-		see A.1.10.8
3.10	teletex-domain-defined-attributes	o	m	o	m-		
3.11	universal-domain-defined-attributes	o	m	o	m-		see A.1.10.8

A.1.10.4 Numeric OR-address

Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	built-in-standard-attributes	m	m	m	m		
1.1	country-name	m	m	m	m		
1.2	administration-domain-name	m	m	m	m		
1.3	private-domain-name	o	m	o	m-		
1.4	numeric-user-identifier	m	m	m	m		
2	built-in-domain-defined-attributes	o	m	o	m-		
3	extension-attributes	o	m	o	m-		
3.1	teletex-domain-defined-attributes	o	m	o	m-		
3.2	universal-domain-defined-attributes	o	m	o	m		see A.1.10.8

A.1.10.5 Terminal OR-address

Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	built-in-standard-attributes	m	m	m	m		
1.1	country-name	o	m	o	m-		
1.2	administration-domain-name	o	m	o	m-		
1.3	network-address	m	m	m	m		

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Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1.4	terminal-identifier	o	m	o	m-		
1.5	private-domain-name	o	m	o	m-		
1.6	organization-name	o	o	o	o		
1.7	personal-name	o	o	o	o		
1.8	organizational-unit-names	o	o	o	o		
2	built-in-domain-defined-attributes	o	m	o	m-		
3	extension-attributes	o	m	o	m-		
3.1	extended-network-address	m	m	m	m		
3.1.1	e163-4-address	c[1]	c[1]	o	m-		
3.1.2	psap-address	c[1]	c[1]	o	m-		
3.2	terminal-type	o	m	o	m-		
3.3	common-name	o	o	o	o		
3.4	teletex-common-name	o	o	o	o		
3.5	universal-common-name	o	o	o	o		see A.1.10.8
3.6	teletex-organization-name	o	o	o	o		
3.7	universal-organization-name	o	o	o	o		see A.1.10.8
3.8	teletex-personal-name	o	o	o	o		
3.9	universal-personal-name	o	o	o	o		see A.1.10.8
3.10	teletex-organizational-unit-names	o	o	o	o		
3.11	universal-organizational-unit-names	o	o	o	o		see A.1.10.8
3.12	unformatted-postal-address	o	o	o	o		
3.13	universal-unformatted-postal-address	o	o	o	o		see A.1.10.8
3.14	teletex-domain-defined-attributes	o	m	m	m		
3.15	universal-domain-defined-attributes	o	m	m	m		see A.1.10.8

1 At least one of the elements 'e163-4-address' and 'psap-address' shall be supported.

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A.1.10.6 Formatted postal OR-address

Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	built-in-standard-attributes	m	m	m	m		
1.1	country-name	m	m	m	m		
1.2	administration-domain-name	m	m	m	m		
1.3	private-domain-name	o	m	o	m-		
2	extension-attributes	m	m	m	m		
2.1	physical-delivery-country-name	m	m	m	m		
2.2	physical-delivery-office-name	o	m	o	m-		
2.3	universal-physical-delivery-office-name	o	m	o	m-		see A.1.10.8
2.4	physical-delivery-office-number	o	m	o	m-		
2.5	universal-physical-delivery-office-number	o	m	o	m-		see A.1.10.8
2.6	physical-delivery-organization-name	o	m	o	m-		
2.7	universal-physical-delivery-organization-name	o	m	o	m-		see A.1.10.8
2.8	physical-delivery-personal-name	o	m	o	m-		
2.9	universal-physical-delivery-personal-name	o	m	o	m-		see A.1.10.8
2.10	postal-code	m	m	m	m		
2.11	poste-restante-address	o	m	o	m-		
2.12	universal-poste-restante-address	o	m	o	m-		see A.1.10.8
2.13	post-office-box-address	o	m	o	m-		
2.14	universal-post-office-box-address	o	m	o	m-		see A.1.10.8
2.15	pds-name	o	m	o	m-		
2.16	street-address	o	m	o	m-		
2.17	universal-street-address	o	m	o	m-		see A.1.10.8

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Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
2.18	unique-postal-name	o	m	o	m-		
2.19	universal-unique-postal-name	o	m	o	m-		see A.1.10.8
2.20	extension-OR-address-components	o	m	o	m-		
2.21	universal-extension-OR-address-components	o	m	o	m-		see A.1.10.8
2.22	extension-physical-delivery-address-components	o	m	o	m-		
2.23	universal-extension-physical-delivery-address-components	o	m	o	m-		see A.1.10.8
2.24	local-postal-attributes	o	m	o	m-		
2.25	universal-local-postal-attributes	o	m	o	m-		see A.1.10.8

A.1.10.7 Unformatted postal OR-address

Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	built-in-standard-attributes	m	m	m	m		
1.1	country-name	m	m	m	m		
1.2	administration-domain-name	m	m	m	m		
1.3	private-domain-name	o	m	o	m-		
2	extension-attributes	m	m	m	m		
2.1	unformatted-postal-address	m	m	m	m		
2.2	universal-unformatted-postal-address	m	m	m	m		see A.1.10.8
2.3	physical-delivery-country-name	m	m	m	m		
2.4	postal-code	m	m	m	m		
2.5	pds-name	o	m	o	m-		

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A.1.10.8 UniversalOrBMPString

Ref	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	UniversalOrBMPString						
1.1	character-encoding						
1.1.1	two-octets	m	m [1]	m	m		
1.1.2	four-octets	m	m [1]	m	m		
1.2	iso-639-language-code	o	o	o	o		
1 this mandatory requirement is to support either alternative character-encoding on origination, and both alternatives on reception.							

A.2 Optional functional groups

The following requirements are additional to those specified in A.1 if support of the functional group is claimed (references are to the corresponding table entries in A.1).

A.2.1 Conversion (CV)

A.2.1.1 MessageSubmissionEnvelope

Ref	Element	Profile	
		UA	MTA
A.1.4/9.3	explicit-conversion		c[1]
1 if implicit conversion is not supported (see A.3.3/2) then m else m-			

A.2.1.2 ProbeSubmissionEnvelope

Ref	Element	Profile	
		UA	MTA
A.1.5/8.3	explicit-conversion		c[1]
1 if implicit conversion is not supported (see A.3.3/2) then m else m-			

A.2.2 Distribution List (DL)

There are no additional requirements for support of protocol elements for support of the DL FG, unless one of the supplementary classes is claimed. However, MTAs shall meet the requirements specified in subclause 7.2 of ISO/IEC ISP 10611-1.

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A.2.2.1 Secure DL classes (DL+SEC and DL+DIR+SEC)

A.2.2.1.1 MessageSubmissionEnvelope

Ref	Element	Profile	
		UA	MTA
A.1.4/8.6	originator-certificate		m
A.1.4/8.12	certificate-selectors		m
A.1.4/8.13	multiple-originator-certificates		m
A.1.4/9.4.10	message-token		m
A.1.4/9.4.13	certificate-selectors-override		m
A.1.4/9.4.14	recipient-certificate		c[1]
1 m for reception only, otherwise o.			

A.2.2.2 DL Exempted Recipients class (DL+ER)

A.2.2.2.1 MessageSubmissionEnvelope

Ref	Element	Profile	
		UA	MTA
A.1.4/8.14	dl-exempted-recipients	m	m

A.2.2.2.2 MessageDeliveryEnvelope

Ref	Element	Profile	
		MTS-user	MTA
A.1.6/3.12.26	dl-exempted-recipients	m	m

A.2.3 Physical Delivery (PD)

The support requirements specified below are for a UA and for an MTA on submission, and for an MTA with a co-located PDAU on delivery, as appropriate.

A.2.3.1 MessageSubmissionEnvelope

Ref	Element	Profile	
		UA	MTA
A.1.4/8.5	originator-return-address		m
A.1.4/9.4.3	physical-forwarding-prohibited	m	m

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Ref	Element	Profile	
		UA	MTA
A.1.4/9.4.4	physical-forwarding-address-request		m
A.1.4/9.4.5	physical-delivery-modes	m	m
A.1.4/9.4.6	registered-mail-type		m
A.1.4/9.4.7	recipient-number-for-advice		m
A.1.4/9.4.8	physical-rendition-attributes		m
A.1.4/9.4.9	physical-delivery-report-request		m

A.2.3.2 ProbeSubmissionEnvelope

Ref	Element	Profile	
		UA	MTA
A.1.5/8.4.3	physical-rendition-attributes		m

A.2.3.3 MessageDeliveryEnvelope

Ref	Element	Profile	
		PDAU	MTA
A.1.6/3.12.3	physical-forwarding-prohibited	m	m
A.1.6/3.12.5	physical-delivery-modes		m
A.1.6/3.12.8	physical-rendition-attributes		m
A.1.6/3.12.10	physical-delivery-report-request		m

A.2.3.4 ReportDeliveryEnvelope

Ref	Element	Profile	
		MTS-user	MTA
A.1.7/6.7.2	physical-forwarding-address		m

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A.2.3.5 OR-names

Ref	OR-Address Form	Profile	
		MTS-user	MTA
A.1.10.1/4	formatted postal OR-address	m	m
A.1.10.1/5	unformatted postal OR-address	m	m

A.2.3.5.1 Formatted postal OR-address

Ref	OR-Address Form	Profile	
		MTS-user	MTA
A.1.10.6/2.2	physical-delivery-office-name		m
A.1.10.6/2.3	universal-physical-delivery-office-name		m
A.1.10.6/2.4	physical-delivery-office-number		m
A.1.10.6/2.5	universal-physical-delivery-office-number		m
A.1.10.6/2.6	physical-delivery-organization-name		m
A.1.10.6/2.7	universal-physical-delivery-organization-name		m
A.1.10.6/2.8	physical-delivery-personal-name		m
A.1.10.6/2.9	universal-physical-delivery-personal-name		m
A.1.10.6/2.11	poste-restante-address		m
A.1.10.6/2.12	universal-poste-restante-address		m
A.1.10.6/2.13	post-office-box-address		m
A.1.10.6/2.14	universal-post-office-box-address		m
A.1.10.6/2.15	pds-name		m
A.1.10.6/2.16	street-address		m
A.1.10.6/2.17	universal-street-address		m
A.1.10.6/2.18	unique-postal-name		m
A.1.10.6/2.19	universal-unique-postal-name		m

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Ref	OR-Address Form	Profile	
		MTS-user	MTA
A.1.10.6/2.20	extension-OR-address-components		m
A.1.10.6/2. 21	universal-extension-OR-address-components		m
A.1.10.6/2.22	extension-physical-delivery-address-components		m
A.1.10.6/2.23	universal-extension-physical-delivery-address-components		m
A.1.10.6/2.24	local-postal-attributes		m
A.1.10.6/2.25	universal-local-postal-attributes		m

A.2.3.5.2 Unformatted postal OR-address

Ref	OR-Address Form	Profile	
		MTS-user	MTA
A.1.10.7/2.5	pds-name		m

A.2.4 Redirection (RED)

A.2.4.1 MessageSubmissionEnvelope

Ref	Element	Profile	
		UA	MTA
A.1.4/9.4.1	originator-requested-alternate-recipient		m

A.2.4.2 ProbeSubmissionEnvelope

Ref	Element	Profile	
		UA	MTA
A.1.5/8.4.1	originator-requested-alternate-recipient		m

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A.2.5 Latest Delivery (LD)

A.2.5.1 MessageSubmissionEnvelope

Ref	Element	Profile	
		UA	MTA
A.1.4/8.4	latest-delivery-time	m	m

A.2.6 Return of Content (RoC)

A.2.6.1 Operation arguments/results

A.2.6.1.1 Report Delivery

Ref	Element	Profile	
		MTS-user	MTA
A.1.3.7/1.2	returned-content	m	m

A.2.6.2 Common data types

Ref	Element	Profile	
		MTS-user	MTA
A.1.8/5	PerMessageIndicators		
A.1.8/5.4	content-return-request	m	m

A.2.7 Security (SEC)

The support requirements for all SEC classes are as specified in A.1 unless otherwise specified below. Elements classified as cC shall be treated as m if support of a confidential security class variant (SnC) is claimed, else as o.

A.2.7.1 Supported operations

A.2.7.1.1 Message Submission Service Element (MSSE)

Ref	Element	MTS-user			MTA		
		S0	S1	S2	S0	S1	S2
A.1.2.2/4	SubmissionControl				m	m	m

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A.2.7.1.2 Message Delivery Service Element (MDSE)

Ref	Element	MTS-user			MTA		
		S0	S1	S2	S0	S1	S2
A.1.2.3/3	DeliveryControl		m	m			

A.2.7.1.3 Message Administration Service Element (MASE)

Ref	Element	MTS-user			MTA		
		S0	S1	S2	S0	S1	S2
A.1.2.4/2	ChangeCredentials (MTA to UA)		i	i		i	i
A.1.2.4/3	ChangeCredentials (UA to MTA)		i	i		i	i

A.2.7.2 Operation arguments/results

A.2.7.2.1 MTSBind

Ref	Element	MTS-user			MTA		
		S0	S1	S2	S0	S1	S2
A.1.3.1/1.3	initiator-credentials	m	m	m	m	m	m
A.1.3.1/1.3.1	simple		i	i		i	i
A.1.3.1/1.3.2	strong		m	m		m	m
A.1.3.1/1.3.2.2	certificate		m	m		m	m
A.1.3.1/1.3.2.3	certificate-selector		m	m		m	m
A.1.3.1/1.4	security-context		m	m		m	m
A.1.3.1/2.3	responder-credentials	m	m	m	m	m	m
A.1.3.1/2.3.1	simple		i	i		i	i
A.1.3.1/2.3.2	strong		m	m		m	m
A.1.3.1/2.3.2.2	certificate		m	m		m	m
A.1.3.1/2.3.2.3	certificate-selector		m	m		m	m

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A.2.7.2.2 MessageSubmission

Ref	Element	UA			MTA		
		S0	S1	S2	S0	S1	S2
A.1.3.2/2.4.1	originating-MTA-certificate	i	i	o	i	i	o
A.1.3.2/2.4.2	proof-of-submission	i	i	m	i	i	m
A.1.3.2/2.4.3	originating-MTA-certificate-selector	i	i	o	i	i	o

A.2.7.2.3 SubmissionControl

Ref	Element	UA			MTA		
		S0	S1	S2	S0	S1	S2
A.1.3.5/1.1.2	permissible-operations				m	m	m
A.1.3.5/1.1.3	permissible-maximum-content-length				m	m	m
A.1.3.5/1.1.4	permissible-lowest-priority				m	m	m
A.1.3.5/1.1.5	permissible-security-context		m	m		m	m

A.2.7.2.5 MessageDelivery

Ref	Element	MTS-user			MTA		
		S0	S1	S2	S0	S1	S2
A.1.3.6/2.1	recipient-certificate		m	m		m	m
A.1.3.6/2.2	proof-of-delivery		m	m		m	m
A.1.3.6/2.3	recipient-certificate-selector		m	m		m	m

A.2.7.2.6 DeliveryControl

Ref	Element	MTS-user			MTA		
		S0	S1	S2	S0	S1	S2
A.1.3.8/1.1.5	permissible-security-context		m	m		m	m

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A.2.7.2.7 Register

Ref	Element	UA			MTA		
		S0	S1	S2	S0	S1	S2
A.1.3.9/1.7.1	user-security-label		m	m		m	m

A.2.7.3 MessageSubmissionEnvelope

Ref	Element	UA			MTA		
		S0	S1	S2	S0	S1	S2
A.1.4/8.6	originator-certificate	m	m	m	m-	m-	m
A.1.4/8.7	content-confidentiality-algorithm-identifier	cC	cC	cC	m-	m-	m-
A.1.4/8.8	message-origin-authentication-check			m	m-	m-	m
A.1.4/8.9	message-security-label		m	m	m-	m	m
A.1.4/8.10	proof-of-submission-request			m			m
A.1.4/8.12	certificate-selectors	m	m	m	m-	m-	m
A.1.4/8.13	multiple-originator-certificates	m	m	m	m-	m-	m-
A.1.4/9.4.10	message-token	m	m	m	m-	m	m
A.1.4/9.4.11	content-integrity-check	m	m	m	m-	m-	m-
A.1.4/9.4.12	proof-of-delivery-request		m	m		m	m
A.1.4/9.4.13	certificate-selectors-override	m	m	m	m-	m-	m-

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Ref	Element	UA			MTA		
		S0	S1	S2	S0	S1	S2
A.1.4/9.4.14	recipient-certificate	cC	cC	cC	m-	m-	m-

A.2.7.4 ProbeSubmissionEnvelope

Ref	Element	UA			MTA		
		S0	S1	S2	S0	S1	S2
A.1.5/7.4	originator-certificate			m	m-	m-	m
A.1.5/7.5	message-security-label		m	m	m-	m	m
A.1.5/7.7	probe-origin-authentication-check			m	m-	m-	m
A.1.5/7.8	certificate-selectors			m	m-	m-	m

A.2.7.5 MessageDeliveryEnvelope

Ref	Element	MTS-user			MTA		
		S0	S1	S2	S0	S1	S2
A.1.6/3.12.11	originator-certificate	m	m	m	m-	m-	m-
A.1.6/3.12.12	message-token	m	m	m	m-	m	m
A.1.6/3.12.13	content-confidentiality-algorithm-identifier	cC	cC	cC	m-	m-	m-
A.1.6/3.12.14	content-integrity-check	m	m	m	m-	m-	m-
A.1.6/3.12.15	message-origin-authentication-check			m	m-	m-	m
A.1.6/3.12.16	message-security-label		m	m	m-	m	m
A.1.6/3.12.17	proof-of-delivery-request		m	m		m	m
A.1.6/3.12.22	certificate-selectors	m	m	m	m-	m-	m-
A.1.6/3.12.23	certificate-selectors-override	m	m	m	m-	m-	m-
A.1.6/3.12.24	multiple-originator-certificates	m	m	m	m-	m-	m-
A.1.6/3.12.25	recipient-certificate	cC	cC	cC	m-	m-	m-

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A.2.7.6 ReportDeliveryEnvelope

Ref	Element	MTS-user			MTA		
		S0	S1	S2	S0	S1	S2
A.1.7/5.1	message-security-label		m	m	m-	m	m
A.1.7/5.6	reporting-MTA-certificate			m	m-	m-	m-
A.1.7/5.7	report-origin-authentication-check			m	m-	m-	m
A.1.7/5.10	reporting-MTA-certificate-selector			m	m-	m-	m-
A.1.7/5.11	reporting-MTA-name			m	m-	m-	m-
A.1.7/6.7.3	recipient-certificate		m	m	m-	m-	m-
A.1.7/6.7.4	proof-of-delivery		m	m		m	m
A.1.7/6.7.5	recipient-certificate-selector		m	m	m-	m-	m-

A.2.7.7 Common data types

Ref	Element	MTS-user			MTA		
		S0	S1	S2	S0	S1	S2
A.1.8/7	BindToken						
A.1.8/4.2.4	signed-data		m	m		m	m
A.1.8/9	Certificate						
A.1.8/9.10.8.1	otherName					m	m
A.1.8/9.10.8.1.1	mta-name					m	m
A.1.8/9.10.8.4	x400Address	m	m	m			

A.2.7.8 Extension data types

Ref	Element	MTS-user			MTA		
		S0	S1	S2	S0	S1	S2
A.1.9/2	MessageOriginAuthenticationCheck						
A.1.9/2.4	message-security-label		m	m		m	m
A.1.9/3	MessageSecurityLabel						

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Ref	Element	MTS-user			MTA		
		S0	S1	S2	S0	S1	S2
A.1.9/3.1	security-policy-identifier		m	m		m	m
A.1.9/3.2	security-classification		m	m		m	m
A.1.9/3.3	security-categories		m	m		m	m
A.1.9/4	MessageToken						
A.1.9/4.2.4	signed-data	m	m	m	m	m	m
A.1.9/4.2.4.1	content-confidentiality-algorithm-identifier	cC	cC	cC	m-	m-	m-
A.1.9/4.2.4.2	content-integrity-check	m	m	m	m	m	m
A.1.9/4.2.4.3	message-security-label		m	m		m	m
A.1.9/4.2.4.4	proof-of-delivery-request		m	m		m	m
A.1.9/4.2.5	encryption-algorithm-identifier		m	m		m	m
A.1.9/4.2.6	encrypted-data		m	m		m	m
A.1.9/4.2.6.2	content-integrity-check	m	m	m	m	m	m
A.1.9/4.2.6.3	message-security-label		m	m		m	m
A.1.9/5	ProbeOriginAuthenticationCheck						
A.1.9/5.3	message-security-label		m	m		m	m
A.1.9/6	ProofOfDelivery						
A.1.9/6.7	message-security-label		m	m		m	m
A.1.9/7	ReportOriginAuthenticationCheck						
A.1.9/7.3	message-security-label		m	m		m	m
A.1.9/9	CertificateSelectors						
A.1.9/9.1	encryption-recipient	cC	cC	cC			
A.1.9/9.2	encryption-originator	cC	cC	cC			
A.1.9/9.3	content-integrity-check	m	m	m			

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Ref	Element	MTS-user			MTA		
		S0	S1	S2	S0	S1	S2
A.1.9/9.4	token-signature	m	m	m			
A.1.9/9.5	message-origin-authentication			m			m
A.1.9/10	CertificateSelectorsOverride						
A.1.9/10.1	encryption-recipient	cC	cC	cC			
A.1.9/10.2	encryption-originator	cC	cC	cC			
A.1.9/10.3	content-integrity-check	m	m	m			
A.1.9/10.4	token-signature	m	m	m			

A.2.8 Use of Directory (DIR)

A.2.8.1 Extension data types

Ref	Element	Profile	
		MTS-user	MTA
A.1.9/11	ExtendedCertificate		
A.1.9/11.1	directory-entry	c[1]	
A.1.9/12	ReportingMTAName		
A.1.9/12.3	mta-directory-name	c[1]	c[1]
1 if DIR+SEC class is claimed then m else m-.			

A.2.8.2 OR-names

Ref	OR-Name Form	Profile	
		MTS-user	MTA
A.1.10.1/6	directory-name	m	m
A.1.10.2/6	directory-name	m	m

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A.2.9 Simple Protected Password (SPP)

A.2.9.1 MTSBind

Ref	Element	Profile	
		MTS-user	MTA
A.1.3.1/1.1.3	protected	m	m
A.1.3.1/2.3.3	protected	m	m

A.2.10 Redirection instructions (RED2)

This functional group applies only to the AMH14 context.

A.2.10.1 AMH14 register

Ref	Element	Profile	
		UA	MTA
A.1.3.11/1.5	redirections	m	m
A.1.3.11/1.5.1	redirections-classes	m	m
A.1.3.11/1.5.1.1	content-types	o	m
A.1.3.11/1.5.1.2	maximum-content-length	o	m
A.1.3.11/1.5.1.3	acceptable-encoded-information-types-constraints	o	m
A.1.3.11/1.5.1.5	priority	o	m
A.1.3.11/1.5.1.7	applies-only-to	m	m

A.2.11 Delivery constraints (DC)

This functional group applies only to the AMH14 context.

A.2.11.1 AMH14 register

Ref	Element	Profile	
		UA	MTA
A.1.3.11/1.3.1	content-types	m	m
A.1.3.11/1.3.2	maximum-content-length	m[1]	m
A.1.3.11/1.3.3	acceptable-encoded-information-types-constraints	m	m

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Ref	Element	Profile	
		UA	MTA
A.1.3.11/1.3.3.1	unacceptable-eits	m[1]	m
1 The requirement is only that the UA is capable of registering its configured capability, not that it should make parameters available to register arbitrary user specified values.			

A.2.12 Restricted Delivery (RD)

This functional group applies only to the AMH14 context.

A.2.12.1 AMH14 register

Ref	Element	Profile	
		UA	MTA
A.1.3.11/1.6	redirected-delivery[1]	m	m
1 The element redirected-delivery is expanded in subclause A.1.8, item 6.			

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A.3 Additional information

A.3.1 Content types supported

The following table shall be completed to indicate (Y or ✓) which content type(s) the implementation can support on submission and delivery (see subclause 6.1 of ISO/IEC ISP 10611-1). Any differences between support on submission and support on delivery shall be indicated in the Comments column. In the case of an MTA with a PDAU, any further constraints for the PDAU shall be indicated in the Comments column.

Ref	Content Type	Supported	Comments
1	built-in		
1.1	unidentified (0)		
1.2	interpersonal-messaging-1984 (2)		
1.3	interpersonal-messaging-1988 (22)		
1.4	(EDI messaging) (35)		
2	extended (specify)		

A.3.2 Encoded information types supported

The following table shall be completed to indicate (Y or ✓) which encoded information type(s) the implementation can support on submission and delivery (see subclause 6.1 of ISO/IEC ISP 10611-1). Any differences between support on submission and support on delivery shall be indicated in the Comments column.

Ref	Encoded Information Type	Supported	Comments
1	built-in		
1.1	unknown (0)		
1.2	ia5-text (2)		
1.3	g3-facsimile (3)		
1.4	g4-class-1 (4)		
1.5	teletex (5)		
1.6	videotex (6)		
1.7	voice (7)		
1.8	mixed-mode (9)		

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Ref	Encoded Information Type	Supported	Comments
1.9	other (specify)		
2	extended (specify)		

A.3.3 Encoded information type conversions supported

The following table shall be completed for an MTA if support of the Conversion FG is claimed to indicate (Y or ✓) which encoded information type conversions the implementation can perform (see subclause 7.1 of ISO/IEC ISP 10611-1). The supplier shall also state in the Comments column for which content types support of the conversion capability is claimed and under what conditions loss of information is determined (if applicable).

Ref	Encoded Information Type Conversion	Supported	Comments
1	explicit-conversion		
1.1	ia5-text-to-teletex (0)		
1.2	ia5-text-to-g3-facsimile (8)		
1.3	ia5-text-to-g4-class-1 (9)		
1.4	ia5-text-to-videotex (10)		
1.5	teletex-to-ia5-text (11)		
1.6	teletex-to-g3-facsimile (12)		
1.7	teletex-to-g4-class-1 (13)		
1.8	teletex-to-videotex (14)		
1.9	videotex-to-ia5-text (16)		
1.10	videotex-to-teletex (17)		
2	implicit conversion (specify)		

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A.3.4 Delivery capability

The following table shall be completed for an MTA to indicate (Y or ✓) which OR-address attributes may be used for registration of local MTS-users and thus to determine delivery (see subclause 8.3 of ISO/IEC ISP 10611-1). Any constraints on the use of an attribute for delivery purposes (e.g. any limitation on the range of values, character repertoires, etc) shall be indicated in the Comments column.

Ref	OR-Address Attribute	Deliverable	Comments
1	country-name		
2	administration-domain-name		
3	network-address extended-network-address		
4	terminal-identifier		
5	terminal-type		
6	private-domain-name		
7	organization-name teletex-organization-name universal-organization-name		
8	numeric-user-identifier		
9	personal name teletex-personal-name universal-personal-name		
10	organizational-unit-names teletex-organizational-unit-names universal-organizational-unit-names		
11	common-name teletex-common-name universal-common-name		
12	built-in-domain-defined-attributes teletex-domain-defined-attributes universal-domain-defined-attributes		
13	pds-name		
14	physical-delivery-country-name		
15	postal-code		

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Any other criteria that can be used to determine delivery decisions should be indicated below.

A.3.5 Implementation constraints

The following table shall be completed to indicate any constraints imposed by the implementation.

Ref	Constraint	Limit	Comments
1	limit on message size (if any) (see note 1)		
2	limit on the number of recipients that may be specified in a message envelope (if any) (see note 2)		
3	other (specify)		

NOTES

1 Any limit on the maximum size of message content and/or envelope shall be stated.

2 Any limit on the number of recipients that may be specified in a message envelope shall be stated (this does not imply a static capability to register that number of users for delivery at a single MTA).

A.3.6 Supported extensions

The following table shall be completed to indicate which extensions and where they are supported in addition to the standard extensions for which support must already be stated in the various tables of clauses A.1 and A.2. For each extension it shall be references to where in the protocol they might appear.

Ref	Extension identifier	Reference	Comments

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Annex B

(normative)

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 10611.

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

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Annex C

(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 10611 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 10611 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*

ISO/IEC 10021-2: 1990, *Information Technology - Text Communication - Message-Oriented Text Interchange Systems (MOTIS) - Part 2: Overall Architecture*

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

ISO/IEC 10021-2:1990/Amd.1:1994

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

CCITT Recommendation X.408 (1988), *Message handling systems: Encoded information type conversion rules*

CCITT Recommendation X.411(1988), *Message handling systems: Message transfer system: Abstract service definition and procedures*

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

ISO/IEC 10021-4:1990/Amd.1:1994

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CCITT Recommendation X.419(1988), *Message handling systems: Protocol specifications*

ISO/IEC 10021-6:1990, *Information Technology - Text Communication - Message-Oriented Text Interchange Systems (MOTIS) - Part 6: Protocol Specifications*

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

ITU-T Recommendation X.681 (1997) | ISO/IEC 8824-2:1998, *Information technology - Abstract Syntax Notation One (ASN.1): Information object specification*

ITU-T Recommendation X.682 (1997) | ISO/IEC 8824-3:1998, *Information technology - Abstract Syntax Notation One (ASN.1): Constraint specification*

ITU-T Recommendation X.683 (1997) | ISO/IEC 8824-4:1998, *Information technology - Abstract Syntax Notation One (ASN.1): Parameterization of ASN.1 specifications*

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