INTERNATIONAL STANDARDIZED PROFILE

ISO/IEC ISP 10611-6

Second edition
2003-06-15

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

Part 6: AMH15 — MS 94 Access (P7)

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

Partie 6: AMH15 — Accès à MS 94 (P7)

Reference number
ISO/IEC ISP 10611-6:2003(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 10611-6 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*.

This second edition cancels and replaces the first edition (ISO/IEC ISP 10611-6:1998), 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 International Standardized Profile 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 edition of this part of ISO/IEC ISP 10611 was 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 first 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 6:
AMH15 — MS 94 Access (P7)

1 Scope

1.1 General

This part of ISO/IEC ISP 10611 covers access to a message store (MS) using the P7 MS Access Protocol as defined in ISO/IEC 10021-5:1994 and ISO/IEC 10021-6:1996 (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.

1.2 Position within the taxonomy

This part of ISO/IEC ISP 10611 is the sixth part of a multipart ISP identified in ISO/IEC TR 10000-2 as ”AMH1, Message Handling Systems - Common Messaging” (see also ISO/IEC TR 10000-1, 8.2 for the definition of multipart ISPs).

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

AMH15 - MS 94 Access (P7)

The AMH15 profile may be combined with any T-Profiles (see ISO/IEC TR 10000) specifying the OSI connection-mode Transport service.

1.3 Scenario

The model used is one of access to a message store (MS) by an MS-user - specifically, the intercommunication between an MS and an MS-user (i.e. a user agent) using the P7 protocol, as shown in figure 1.

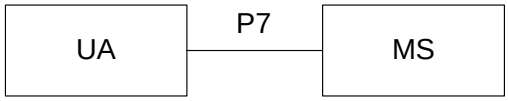

Figure 1 - AMH15 scenario

The AMH15 profile covers all aspects of the MS Abstract Service, as defined in ISO/IEC 10021-5:1994, when realized using the P7 protocol.

The OSI upper layer services and protocols to support the Message Handling Systems functions covered by the AMH15 profile are specified in the set of standards identified in table 1.

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Table 1 - AMH15 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.

NOTE - 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.

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*

ISO/IEC 10021-1:1999, *Information technology - Text Communication - Message Handling Systems (MHS) - Part 1: Service Overview [see also ITU-T Recommendation X.400]*

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*

ITU-T Recommendation F.400/X.400(1999), *Message handling system and service overview*

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

ITU-T Recommendation X.413 (1999) | ISO/IEC 10021-5:1999, *Information technology - Message Handling Systems (MHS): Message store: Abstract service definition*

ITU-T Recommendation X.419 (1999), *Message Handling Systems - Protocol Object Identifiers*

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

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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, attributes 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 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 support of an MS attribute for the MS requires that it is supported in the context of all applicable supported operation arguments and results and also for use within a selector to the level of support claimed for the filter item. Mandatory support of an MS attribute by the MS-user requires that it is supported in the context of at least one supported operation argument and result or supported in a selector to the level of support claimed for the filter item (see table A.3.6). The way in which attribute values are stored by an MS implementation, or used by a MS-user implementation, is otherwise a local matter.

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 is not claimed, and the element is an argument, then an implementation shall generate an appropriate error indication if the element is received. If support is not claimed, and the element is a result, then an implementation may ignore the element if it is received. 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.

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

4 Abbreviations

AA	Auto-Annotation
AC	Auto-Correlation
AD	Auto-Deletion
AG	Auto-Grouping
ALERT	Alert
AMH	Application Message Handling
ASN.1	Abstract Syntax Notation One
DC	Delivery Constraints
DIR	Use of Directory
DL	Distribution List
EoS	Element of Service
FG	Functional group
ISP	International Standardized Profile
LD	Latest Delivery
LOG	Logging
MHS	Message Handling Systems
MS	Message store
MTA	Message transfer agent
ORAM	ORAddress Matching
ORNM	ORName Matching
OSI	Open Systems Interconnection
PD	Physical Delivery
RD	Restricted Delivery
RoC	Return of Content
SDM	Storage of Draft Messages
SEC	Security
SG	Storage and Grouping
SPP	Simple Protected Password
TRASH	Trash
UA	User agent

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

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

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 AMH15 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.

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The scope of conformance to profile AMH15 covers both MSs and MS-users. A claim of conformance to profile AMH15 shall state whether the implementation claims conformance as an MS or as an MS-user.

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 AMH15 as specified in this part of ISO/IEC ISP 10611 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 AMH15 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. MS or MS-user) for which conformance is claimed. 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 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 profile AMH15 as specified in this part of ISO/IEC ISP 10611, the P7 application context(s) for which conformance is claimed shall be stated.

Note : For MS implementations conforming to profile AMH15 as specified in this part of ISO/IEC ISP 10611, ISO/IEC 10021-6 (clause 6.1) requires that equivalent P7 protocol versions that were defined in 1992 are also implemented. An MS implementation conforming to profile AMH15 as specified in this part of ISO/IEC ISP 10611 will therefore also state its conformance to AMH13 as specified in ISO/IEC ISP 10611-5, as appropriate.

5.3 Underlying layers conformance

Implementations conforming to profile AMH15 as specified in this part of ISO/IEC ISP 10611 shall also conform to ISO/IEC ISP 10611-2 in accordance with the P7 application context(s) for which conformance is claimed.

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Annex A[2]

(normative)

ISPICS Proforma

for ISO/IEC ISP 10611-6 (AMH15)

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 profile AMH15. 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 ”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)
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)

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A.0 Identification of the implementation

A.0.1 Identification of PICS

Ref	Question	Response
1	Date of statement (DD/MM/YY)	
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)	1994 version
3	Addenda/amendments/corrigenda implemented	
4	Defect reports implemented	not applicable

A.0.5 Type of implementation

Ref	Implementation Type	Response
1	MS-user ()	
2	MS (co-located with MTA)	
3	MS (P3 interface to 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?	

A.0.7 Statement of profile conformance

Ref	Question	Response	Comments
1	Are all mandatory requirements of profile AMH15 implemented?		
2	Are all mandatory requirements of any of the following optional functional groups implemented?		
2.1	Distribution List (DL)		only class DL+ER is applicable
2.2	Physical Delivery (PD)		not applicable in the case of an MS
2.3	Latest Delivery (LD)		not applicable in the case of an MS
2.4	Return of Content (RoC)		
2.5	Security (SEC)		class(es):

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Ref	Question	Response	Comments
2.6	Use of Directory (DIR)		class(es):
2.7	Simple Protected Password (SPP)		
2.8	Storage-and-Grouping (SG)		
2.9	Alert (ALERT)		
2.10	Auto-Annotation (AA)		
2.11	Auto-Grouping (AG)		
2.12	Trash (TRASH)		
2.13	Auto-Deletion (AD)		
2.14	Auto-Correlation (AC)		
2.15	Log (LOG)		
2.16	Storage of Draft Messages (SDM)		
2.17	ORAddress Matching (ORAM)		
2.18	ORName Matching (ORNM)		

A.1 Basic requirements

A.1.1 Supported application contexts

Ref	Application Context	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	ms-access-94[1]	o	m	o	m		
2	ms-reliable-access-94[2]	o	o	o	o		
1 For a MS implementation, the application-context ms-access shall also be supported. 2 For a MS implementation, the application-contexts ms-access and ms-reliable-access shall also be supported.							

A.1.2 Supported operations

A.1.2.1 Bind and Unbind

Ref	Operation	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	MSBind	m	m	m	m		see A.1.3.1

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Ref	Operation	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
2	MSUnbind	m	m	m	m		

A.1.2.2 MS Message Submission Service Element (MS-MSSE)

Ref	Operation	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	MSMessageSubmission	m	m	m	m		see A.1.3.2
2	MSProbeSubmission	o	o	m	m		see A.1.3.3
3	CancelDeferredDelivery	o	o	m[1]	m[1]		see A.1.3.4
4	SubmissionControl	o	o	o	o		see A.1.3.5

1 Except when the Submission or Submission-Log entry-class is supported, an MS is only required to be able to copy the syntax of the arguments and results of these operations to the MTA or MS-user, as appropriate; it is not required to be able to originate such elements.

A.1.2.3 Message Retrieval Service Element 94 (MRSE-94)

Ref	Operation	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	Summarize	o	o	m	m		see A.1.3.6
2	List	o	o	m	m		see A.1.3.7
3	Fetch	m	m	m	m		see A.1.3.8
4	Delete	m	m	m	m		see A.1.3.9
5	Register-MS	o	o	m	m		see A.1.3.10
6	Alert	o	o	o	o		see A.1.3.11
7	Modify	o	o	o	o		see A.1.3.12

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A.1.2.4 Message Administration Service Element 94 (MASE-94)

Ref	Operation	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	Register	o	o	o	c[1]		see A.1.3.13
2	ChangeCredentials (MTA to MS)	-	-	x	x		
3	ChangeCredentials (MS-user to MTA via MS)	o	o	o	c[1,2]		see A.1.3.14
1 if the MS has a P3 interface to the MTA then m else if supported by the MTA then m else o 2 subject to local policy (see 16.3.3 of ISO/IEC 10021-5), but otherwise 'm' if the MS has a P3 interface to the MTA							
NOTE For an MS-user, some or all of the services and functionality supported by these operations may be implemented by other means as a local matter.							

A.1.3 Operation arguments/results

A.1.3.1 MSBind

Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	initiator-name	m	m	m	m		see A.1.10.2
1.2	initiator-credentials	m	m	m	m		
1.2.1	simple	m	m	m	m		
1.2.1.1	ia5-string	o	o	m	m		
1.2.1.2	octet-string	o	m	m	m		
1.2.2	strong	o	o	o	o		
1.2.2.1	bind-token	m	m	m	m		
1.2.2.1.1	token-type-identifier	m	m	m	m		
1.2.2.1.2	token	m	m	m	m		see A.1.11
1.2.2.2	certificate	o	o	o	o		see A.1.8/22
1.2.2.3	certificate-selector	o	o	o	o		see A.1.8/24
1.2.3	protected	o	o	o	o		

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1.2.3.1	signature	m	m	m	m		
1.2.3.1.1	password	o	m	o	m		
1.2.3.1.2	time1	o	m	o	m		
1.2.3.1.3	time2	o	o	o	o		
1.2.3.1.4	random1	o	m	o	m		
1.2.3.1.5	random2	o	o	o	o		
1.2.3.2	time1	o	m	o	m		
1.2.3.3	time2	o	o	o	o		
1.2.3.4	random1	o	m	o	m		
1.2.3.5	random2	o	o	o	o		
1.3	security-context	o	o	o	o		see A.1.9/3
1.4	fetch-restrictions	o	o	o	o		
1.4.1	allowed-content-types	o	o	o	m		
1.4.2	allowed-EITs	o	o	o	o		
1.4.3	maximum-attribute-length	o	o	o	m		
1.5	ms-configuration-request	o	o	m	m		
1.6	ua-registration-identifier	o	o	o	o		
1.7	bind-extensions	o	o	o	m[1]		
2	RESULT						
2.1	responder-credentials	m	m	m	m		
2.1.1	simple	m	m	m	m		
2.1.1.1	ia5-string	m	m	o	o		
2.1.1.2	octet-string	m	m	o	m		
2.1.2	strong	o	o	o	o		
2.1.2.1	bind-token	m	m	m	m		
2.1.2.1.1	token-type-identifier	m	m	m	m		

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
2.1.2.1.2	token	m	m	m	m		see A.1.11
2.1.2.2	certificate	o	o	o	o		see A.1.8/22
2.1.2.3	certificate-selector	o	o	o	o		see A.1.8/24
2.1.3	protected	o	o	o	o		
2.1.3.1	signature	m	m	m	m		
2.1.3.1.1	password	o	m	o	m		
2.1.3.1.2	time1	o	m	o	m		
2.1.3.1.3	time2	o	o	o	o		
2.1.3.1.4	random1	o	m	o	m		
2.1.3.1.5	random2	o	o	o	o		
2.1.3.2	time1	o	o	o	o		
2.1.3.3	time2	o	o	o	o		
2.1.3.4	random1	o	o	o	o		
2.1.3.5	random2	o	o	o	o		
2.2	available-auto-actions	o	o	c[2]	c[2]		
2.3	available-attribute-types	o	o	m	m		
2.4	alert-indication	o	o	o	o		
2.5	content-types-supported	o	o	c[3]	c[3]		
2.6	entry-classes-supported	o	o	m	m		see A.1.8/5
2.7	matching-rules-supported	o	o	m	m		
2.8	bind-result-extensions	c[10]	c[10]	c[10]	c[10]		
2.8.1	modify-capability	c[12]	c[12]	c[12]	c[12]		
2.8.2	modify-retrieval-status-capability	c[13]	c[13]	c[13]	c[13]		
2.8.3	protected-change-credentials-capability	c[14]	c[14]	c[14]	c[14]		
2.9	message-group-depth	o	o	c[11]	c[11]		
2.10	auto-action-error-indication	c[7]	c[7]	c[7]	c[7]		

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
2.10.1	indication-only	c[8]	c[8]	c[8]	c[8]		
2.10.2	auto-action-log-entry	c[9]	c[9]	c[9]	c[9]		
2.11	unsupported-extensions	o	c[4]	o	m		
2.12	ua-registration-id-unknown	c[6]	c[6]	m[5]	m[5]		
2.13	service-information	o	m	o	o		

1 only the capability to handle the syntax is required.

2 if at least one auto-action type is supported then m else –

3 if at least one content-type is supported then m else –

4 shall be supported if bind-extensions is supported

5 if the MS does not support UA registration and has received the element ua-registration-identifier in the argument, it shall generate the value TRUE

6 shall be supported if ua-registration-identifier is supported

7 shall be supported if at least one auto-action is supported

8 shall be supported if the Auto-action Log entry-class is not supported

9 shall be supported if the Auto-action Log entry-class is supported

10 shall be supported if at least one extension is supported

11 shall be supported if message grouping functionality is supported

12 shall be supported if the Modify operation is supported

13 shall be supported if modification of the retrieval-status attribute is supported

14 shall be supported if protected credentials are supported

A.1.3.2 MSMessageSubmission

Ref	Element	MS-user		MS		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		
1.3	submission-options	o	o	o	o		
1.3.1	object-entry-class	o	o	o	o		see A.1.8/5
1.3.2	disable-auto-modify	o	o	o	o		

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1.3.3	add-message-group-names	o	o	o	o		
1.3.4	ms-submission-extensions	o	o	o	m		
1.3.4.1	originator-token	o	o	o	o		see A.1.9/4
1.3.4.2	originator-certificate-selectors-override	o	o	o	o		see A.1.9/8
2	RESULT						
2.1	mts-result	m	m	m	m		
2.1.1	message-submission-identifier	m	m	m	m		see A.1.8/8
2.1.2	message-submission-time	m	m	m	m		
2.1.3	content-identifier	o	c^1	m	m		
2.1.4	extensions	o	o	m	m		see A.1.9/1
2.1.4.1	originating-MTA-certificate	o	i	o	i		see A.1.8/22
2.1.4.2	proof-of-submission	o	i	o	i		see A.1.9/6
2.1.4.3	originating-MTA-certificate-selector	o	i	o	i		see A.1.8/24
2.1.5	ms-message-result	o	o	o	o		
2.1.5.1	created-entry	o	o	o	o		
2.1.5.2	auto-action-error-indication	o	o	o	o		
2.1.5.2.1	indication-only	c^2	c^2	c^2	c^2		
2.1.5.2.2	auto-action-log-entry	c^3	c^3	c^3	c^3		
2.1.5.3	ms-submission-result-extensions	o	o	o	o		
2.2	store-draft-result	o	o	o	o		
2.2.1	created-entry	m	m	m	m		
2.2.2	auto-action-error-indication	o	o	o	o		
2.2.2.1	indication-only	c^2	c^2	c^2	c^2		
2.2.2.2	auto-action-log-entry	c^3	c^3	c^3	c^3		

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
2.2.3	ms-submission-result-extensions	o	o	o	o		

1 if supported in message submission envelope them m else –

2 shall be supported if the Auto-action Log entry-class is not supported

3 shall be supported if the Auto-action Log entry-class is supported

A.1.3.3 MSProbeSubmission

Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	(envelope)	m	m	m	m		see A.1.5
1.2	submission-options	o	o	o	o		
1.2.1	object-entry-class	o	o	o	o		see A.1.8/5
1.2.2	disable-auto-modify	o	o	o	o		
1.2.3	add-message-group-names	o	o	o	o		
1.2.4	ms-submission-extensions	o	o	o	o		
2	RESULT						
2.1	probe-submission-identifier	m	m	m	m		see A.1.8/8
2.2	probe-submission-time	m	m	m	m		
2.3	content-identifier	o	c[1]	m	m		
2.4	extensions	o	o	m	m		
2.5	ms-probe-result	o	o	o	o		
2.5.1	created-entry	o	o	o	o		
2.5.2	auto-action-error-indication	o	o	o	o		
2.5.2.1	indication-only	c[2]	c[2]	c[2]	c[2]		
2.5.2.2	auto-action-log-entry	c[3]	c[3]	c[3]	c[3]		
2.5.3	ms-submission-result-extensions	o	o	o	o		

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1 if supported in probe submission envelope then m else – 2 shall be supported if the Auto-action Log entry-class is not supported 3 shall be supported if the Auto-action Log entry-class is supported							

A.1.3.4 CancelDeferredDelivery

Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	message-submission-identifier	m	m	m	m		see A.1.8/8
2	RESULT						
2.1	NULL	m	m	m	m		

A.1.3.5 SubmissionControl

Ref	Element	MS-user		MS		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	c[1]		
1.1.3	permissible-maximum-content-length	m	m	o	c[1]		
1.1.4	permissible-lowest-priority	m	m	o	c[1]		
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		

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
2.1.4	waiting-encoded-information-types	o	o	m	m		see A.1.8/10
1 if the MS has a P3 interface to the MTA then m else if supported by the MTA then m else o							

A.1.3.6 Summarize

Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	entry-class	o	o	m	m		see A.1.8/5
1.2	selector	m	m	m	m		see A.1.8/7
1.3	summary-requests	o	o	m	m		
1.4	summarize-extensions	o	o	o	m		
2	RESULT						
2.1	next	c[1]	c[1]	m	m		
2.2	count	m	m	m	m		
2.3	span	m	m	m	m		
2.4	summaries	o	c[2]	m	m		
2.4.1	absent	m	m	m	m		
2.4.2	present	m	m	m	m		
2.4.2.1	type	m	m	m	m		
2.4.2.2	value	m	m	m	m		
2.4.2.3	count	m	m	m	m		
2.4.2.4	summarize-result-extensions	o	o	o	o		
1 if limit is supported in the Selector then m else – 2 if the request is supported then m else –							

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A.1.3.7 List

Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	entry-class	o	o	m	m		see A.1.8/5
1.2	selector	m	m	m	m		see A.1.8/7
1.3	requested-attributes	m	m	m	m		see A.1.8/1
1.4	list-extensions	o	o	o	m		
2	RESULT						
2.1	next	c[1]	m	m	m		
2.2	requested	m	m	m	m		see A.1.8/2
2.3	list-result-extensions	o	o	o	o		
1 if limit is supported in the Selector then m else –							

A.1.3.8 Fetch

Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	entry-class	o	o	m	m		see A.1.8/5
1.2	item	m	m	m	m		
1.2.1	search	o	o	o	m		see A.1.8/7
1.2.2	precise	o	o	o	m		
1.3	requested-attributes	m	m	m	m		see A.1.8/1
1.4	fetch-extensions	o	o	o	m		
2	RESULT						
2.1	entry-information	m	m	m	m		see A.1.8/2
2.2	list	o	o	o	m		
2.3	next	c[1]	c[1]	c[1]	m		

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
2.4	fetch-result-extensions	o	o	o	o		
1	if search is supported then m else –						

A.1.3.9 Delete

Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	entry-class	o	o	m	m		see A.1.8/5
1.2	items	m	m	m	m		
1.2.1	selector	o	o	m	m		see A.1.8/7
1.2.2	sequence-numbers	o	m	m	m		
1.3	delete-extensions	o	o	o	m		
2	RESULT						
2.1	delete-result-94	m	m	m	m		
2.1.1	entries-deleted	m	m	m	m		
2.1.2	delete-result-extensions	o	o	o	o		

A.1.3.10 Register-MS

Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	auto-action-registrations	o	o	o	o		see A.1.8/15
1.2	auto-action-deregistrations	o	o	o	o		
1.2.1	auto-action-type	m	m	m	m		
1.2.2	registration-identifier	o	o	o	m		
1.3	list-attribute-defaults	o	o	o	o		
1.4	fetch-attribute-defaults	o	o	o	o		

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1.5	change-credentials	m	m	m	m		
1.5.1	old-credentials	m	m	m	m		
1.5.1.1	simple	m	m	m	m		
1.5.1.1.1	ia5-string	o	o	m	m		
1.5.1.1.2	octet-string	o	m	m	m		
1.5.2	new-credentials	m	m	m	m		
1.5.2.1	simple	m	m	m	m		
1.5.2.1.1	ia5-string	o	o	m	m		
1.5.2.1.2	octet-string	o	m	m	m		
1.6	user-security-labels	o	o	o	o		see A.1.9/3
1.7	ua-registrations	o	o	o	o		see A.1.8/16
1.8	submission-defaults	o	o	o	o		
1.8.1	object-entry-class	o	o	o	m		
1.8.2	disable-auto-modify	o	o	o	m		
1.8.3	add-message-group-names	o	o	o	o		
1.8.4	ms-submission-extensions	o	o	o	o		
1.9	message-group-registrations	o	o	o	o		
1.9.1	register-group	o	m	o	m		see A.1.8/14
1.9.2	deregister-group	o	m	o	m		
1.9.3	change-descriptors	o	m	o	m		see A.1.8/14
1.10	registration-status-request	o	o	o	o		
1.10.1	registrations	m	m	m	m		

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1.10.2	restrict-message-groups	o	o	o	o		
1.10.2.1	parent-group	o	o	o	m		
1.10.2.2	immediate-descendants-only	o	o	o	m		
1.10.2.3	omit-descriptors	o	o	o	m		
1.11	register-ms-extensions	o	o	o	m		
1.11.1	protected-change-credentials	o	o	o	o		
2	RESULT						
2.1	no-status-information	m	m	m	m		
2.2	registered-information	o	c[1]	o	c[1]		
2.2.1	auto-action-registrations	o	o	o	o		see A.1.8/15
2.2.2	list-attribute-defaults	o	o	o	o		
2.2.3	fetch-attribute-defaults	o	o	o	o		
2.2.4	ua-registrations	o	o	o	o		see A.1.8/16
2.2.5	submission-defaults	o	o	o	o		see A.1.8/17
2.2.6	message-group-registrations	o	o	o	o		see A.1.8/14
2.2.7	register-ms-result-extensions	o	o	o	o		
1 Support of this element is conditional on the support of registration-status-request.							

A.1.3.11 Alert

Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	alert-registration-identifier	m	m	m	m		
1.2	new-entry	o	m	m	m[1]		see A.1.8/2
2	RESULT						
2.1	NULL	m	m	m	m		
1 The MS shall always return the sequence-number of the new entry created, as a minimum							

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A.1.3.12 Modify

Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	entry-class	o	o	m	m		see A.1.8/5
1.2	entries	m	m	m	m		
1.2.1	selector	o	c[1]	o	m		see A.1.8/7
1.2.2	specific-entries	o	c[1]	o	m		
1.2.3	modifications	m	m	m	m		see A.1.8/19
1.2.4	modify-extensions	o	o	o	m		
2	RESULT						
2.1	entries-modified	m	m	m	m		
2.2	modify-result-extensions	o	o	o	o		
1 At least one shall be supported.							

A.1.3.13 Register

Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	user-name	o	o	o	c[1]		see A.1.10.2
1.2	user-address	o	o	o	c[1]		
1.3	deliverable-class	o	o	o	c[1]		
1.3.1	content-types	o	o	o	c[1]		
1.3.2	maximum-content-length	o	o	o	c[1]		
1.3.3	encoded-information-types-constraints	o	o	o	c[1]		see A.1.8/20
1.3.4	security-labels	o	o	o	c[1]		see A.1.9/3
1.3.5	extensions	o	o	o	c[1]		
1.4	default-delivery-controls	o	o	o	c[1]		

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1.4.1	restrict	o	o	o	c[1]		
1.4.2	permissible-operations	o	o	o	c[1]		
1.4.3	permissible-maximum-content-length	o	o	o	c[1]		
1.4.4	permissible-lowest-priority	o	o	o	c[1]		
1.4.5	permissible-content-types	o	o	o	c[1]		
1.4.6	permissible-encoded-information-types	o	o	o	c[1]		see A.1.8/20
1.5	redirections	o	o	o	c[1]		
1.5.1	redirection-classes	o	o	o	c[1]		
1.5.1.1	content-types	o	o	o	c[1]		
1.5.1.2	maximum-content-length	o	o	o	c[1]		
1.5.1.3	encoded-information-types-constraints	o	o	o	c[1]		see A.1.8/20
1.5.1.4	security-labels	o	o	o	c[1]		see A.1.9/3
1.5.1.5	priority	o	o	o	c[1]		
1.5.1.6	objects	o	o	o	c[1]		
1.5.1.7	applies-only-to	o	o	o	c[1]		see A.1.8/21
1.5.2	recipient-assigned-alternate-recipient	o	o	o	c[1]		see A.1.10.1
1.6	restricted-delivery	o	o	o	c[1]		see A.1.8/21
1.7	retrieve-registrations	o	o	o	c[1]		
1.7.1	standard-parameters	o	o	o	c[1]		
1.7.2	extensions	o	o	o	c[1]		
1.8	extensions	o	o	o	c[1]		
2	RESULT						
2.1	empty-result	m	m	m	m		
2.2	non-empty-result	o	o	m	m		

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
2.2.1	registered-information	o	o	m	m		
2.2.1.1	user-name	o	o	o	c[1]		see A.1.10.2
2.2.1.2	user-address	o	o	o	c[1]		
2.2.1.3	deliverable-class	o	o	o	c[1]		
2.2.1.3.1	content-types	o	o	o	c[1]		
2.2.1.3.2	maximum-content-length	o	o	o	c[1]		
2.2.1.3.3	encoded-information-types-constraints	o	o	o	c[1]		see A.1.8/20
2.2.1.3.4	security-labels	o	o	o	c[1]		see A.1.9/3
2.2.1.3.5	extensions	o	o	o	c[1]		
2.2.1.4	default-delivery-controls	o	o	o	c[1]		
2.2.1.4.1	restrict	o	o	o	c[1]		
2.2.1.4.2	permissible-operations	o	o	o	c[1]		
2.2.1.4.3	permissible-maximum-content-length	o	o	o	c[1]		
2.2.1.4.4	permissible-lowest-priority	o	o	o	c[1]		
2.2.1.4.5	permissible-content-types	o	o	o	c[1]		
2.2.1.4.6	permissible-encoded-information-types	o	o	o	c[1]		see A.1.8/20
2.2.1.5	redirections	o	o	o	c[1]		
2.2.1.5.1	redirection-classes	o	o	o	c[1]		
2.2.1.5.1.1	encoded-information-types-constraints	o	o	o	c[1]		see A.1.8/20
2.2.1.5.1.2	maximum-content-length	o	o	o	c[1]		
2.2.1.5.1.3	content-types	o	o	o	c[1]		
2.2.1.5.1.4	security-labels	o	o	o	c[1]		see A.1.9/3
2.2.1.5.1.5	priority	o	o	o	c[1]		
2.2.1.5.1.6	objects	o	o	o	c[1]		

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
2.2.1.5.1.7	applies-only-to	o	o	o	c[1]		see A.1.8/21
2.2.1.5.2	recipient-assigned-alternate-recipient	o	o	o	c[1]		see A.1.10.1
2.2.1.6	restricted-delivery	o	o	o	c[1]		see A.1.8/21
2.2.1.7	extensions	o	o	o	c[1]		
2.2.2	extensions	o	o	o	c[1]		
1 if the MS has a P3 interface to the MTA then m else if supported by the MTA then m else o							

A.1.3.14 ChangeCredentials

Ref	Element	MS-user		MS		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	IA5String	o	o	m	m		
1.1.1.2	OCTET STRING	o	m	m	m		
1.2	new-credentials	m	m	m	m		
1.2.1	simple	m	m	m	m		
1.2.1.1	IA5String	o	o	m	m		
1.2.1.2	OCTET STRING	o	m	m	m		
2	RESULT						

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
2.1	NULL	m	m	m	m		

A.1.4 MessageSubmissionEnvelope

Ref	Element	MS-user		MS		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.1.8/10
3	content-type	m	m	m	m		see A.1.8/11
4	content-identifier	o	o	m	m		
5	priority	m	m	m	m		
6	per-message-indicators	m	m	m	m		see A.1.8/12
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^2	o	m		
8.2	dl-expansion-prohibited	o	m^2	o	m		
8.3	conversion-with-loss-prohibited	o	o	o	m		
8.4	latest-delivery-time	o	o	o	c^1		
8.5	originator-return-address	o	o	o	c^1		see A.1.10.1
8.6	originator-certificate	o	o	o	c^1		see A.1.8/22
8.7	content-confidentiality-algorithm-identifier	o	o	o	c^1		
8.8	message-origin-authentication-check	o	o	o	c^1		see A.1.9/2
8.9	message-security-label	o	o	o	c^1		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	c^1		see A.1.9/7

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
8.13	multiple-originator-certificates	o	o	o	c[1]		see A.1.9/9
8.14	dl-exempted-recipients	o	o	o	c[1]		see A.1.10.1
8.15	forwarding-request	x[3]	x[3]	x[3]	x[3]		
8.16	PrivateExtensions	o	o	o	o		see A.3.3
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	c[1]		see A.1.10.1
9.4.2	requested-delivery-method	o	o	o	c[1]		
9.4.3	physical-forwarding-prohibited	o	o	o	c[1]		
9.4.4	physical-forwarding-address-request	o	o	o	c[1]		
9.4.5	physical-delivery-modes	o	o	o	c[1]		
9.4.6	registered-mail-type	o	o	o	c[1]		
9.4.7	recipient-number-for-advice	o	o	o	c[1]		
9.4.8	physical-rendition-attributes	o	o	o	c[1]		
9.4.9	physical-delivery-report-request	o	o	o	c[1]		
9.4.10	message-token	o	o	o	c[1]		see A.1.9/4
9.4.11	content-integrity-check	o	o	o	c[1]		
9.4.12	proof-of-delivery-request	o	o	o	c[1]		
9.4.13	certificate-selectors-override	o	o	o	c[1]		see A.1.9/8
9.4.14	recipient-certificate	o	o	o	c[1]		see A.1.8/22
9.4.15	IPMPerRecipientEnvelopeExtensions	o	o	o	c[1]		
9.4.16	PrivateExtensions	o	o	o	o		see A.3.3

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	if the MS has a P3 interface to the MTA then m else if supported by the MTA then m else o						
2	only the capability to generate the "prohibited" value is required						
3	the presence of this element is prohibited when using a 94 application-context.						

A.1.5 ProbeSubmissionEnvelope

Ref	Element	MS-user		MS		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.1.8/10
3	content-type	m	m	m	m		see A.1.8/11
4	content-identifier	o	o	m	m		
5	content-length	o	m	m	m		
6	per-message-indicators	m	m	m	m		see A.1.8/12
7	extensions	m	m	m	m		see A.1.9/1
7.1	recipient-reassignment-prohibited	o	m[2]	o	m		
7.2	dl-expansion-prohibited	o	m[2]	o	m		
7.3	conversion-with-loss-prohibited	o	o	o	m		
7.4	originator-certificate	o	o	o	c[1]		see A.1.8/22
7.5	message-security-label	o	o	o	c[1]		see A.1.9/3
7.6	content-correlator	o	o	m	m		
7.7	probe-origin-authentication-check	o	o	o	c[1]		see A.1.9/5
7.8	certificate-selectors	o	o	o	c[1]		see A.1.9/7
7.9	PrivateExtensions	o	o	o	o		see A.3.3
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		

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
8.4	extensions	m	m	m	m		see A.1.9/1
8.4.1	originator-requested-alternate-recipient	o	o	o	c[1]		see A.1.10.1
8.4.2	requested-delivery-method	o	o	o	c[1]		
8.4.3	physical-rendition-attributes	o	o	o	c[1]		
8.4.4	PrivateExtensions	o	o	o	o		see A.3.3
1 if the MS has a P3 interface to the MTA then m else if supported by the MTA then m else o 2 only the capability to generate the "prohibited" value is required							

NOTE A.1.6 and A.1.7 are omitted to maintain correspondence with ISO/IEC ISP 10611-5.

A.1.8 Common data types

Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	AttributeSelection						
1.1	type	m	m	m	m		
1.2	from	o	o	o	m		
1.3	count	o	o	o	m		
2	EntryInformation						
2.1	sequence-number	m	m	m	m		
2.2	attributes	m	m	m	m		
3	Filter						
3.1	item	m	m	m	m		see A.1.8/4
3.2	and	o	o	m	m		
3.3	or	o	o	m	m		
3.4	not	o	m	m	m		
4	FilterItem						

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
4.1	equality	o	o	m	m		
4.2	substrings	o	o	o	o		
4.2.1	type	m	m	m	m		
4.2.2	strings	m	m	m	m		
4.2.2.1	initial	o	o	m	m		
4.2.2.2	any	o	o	m	m		
4.2.2.3	final	o	o	m	m		
4.3	greater-or-equal	o	o	m	m		
4.4	less-or-equal	o	o	m	m		
4.5	present	o	o	m	m		
4.6	approximate-match	o	o	o	o		
4.7	other-match	o	o	o	o		
4.7.1	matching-rule	m	m	m	m		
4.7.2	attribute-type	m	m	m	m		
4.7.3	match-value	m	m	m	m		
5	EntryClass						
5.1	delivery	m	m	m	m		
5.2	submission	o	o	o	o		
5.3	draft	o	o	o	o		
5.4	stored-message	m	m	m	m		
5.5	delivery-log	c[4]	c[4]	c[4]	c[4]		
5.6	submission-log	c[5]	c[5]	c[5]	c[5]		
5.7	message-log	c[6]	c[6]	c[6]	c[6]		
5.8	auto-action-log	o	o	o	o		
6	Range						

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
6.1	sequence-number-range	o	o	m	m		
6.1.1	from	o	o	m	m		
6.1.2	to	o	o	m	m		
6.2	creation-time-range	o	o	m	m		
6.2.1	from	o	o	m	m		
6.2.2	to	o	o	m	m		
7	Selector						
7.1	child-entries	o	o	m	m		
7.2	range	o	o	m	m		see A.1.8/6
7.3	filter	o	o	m	m		see A.1.8/3
7.4	limit	o	c[7]	m	m		
7.5	override	o	c[1]	o	c[1]		
8	MTSIdentifier						
8.1	global-domain-identifier	m	m	m	m		see A.1.8/9
8.2	local-identifier	m	m	m	m		
9	GlobalDomainIdentifier						
9.1	country-name	m	m	m	m		
9.2	administration-domain-name	m	m	m	m		
9.3	private-domain-identifier	o	m	o	m		
10	EncodedInformationTypes						
10.1	built-in-encoded-information-types	m	m	m	m		
10.2	(non-basic parameters)	o	o	o	c[2]		
10.3	extended-encoded-information-types	o	m	o	m		

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
11	ContentType						
11.1	built-in	o	o	o	m		
11.2	extended	o	o	o	m		
12	PerMessageIndicators						
12.1	disclosure-of-other-recipients	o	o	m	m		
12.2	implicit-conversion-prohibited	m	m	m	m		
12.3	alternate-recipient-allowed	o	o	m	m		
12.4	content-return-request	o	o	o	c^2		
12.5	reserved	o	o	o	m		
12.6	bit-5	o	o	o	m		
12.7	bit-6	o	o	o	m		
12.8	service-message	o	o	o	m		
13	TokenData						
13.1	type	m	m	m	m		
13.2	value	m	m	m	m		
14	MessageGroupNameAndDescriptor						
14.1	message-group-name	m	m	m	m		
14.2	message-group-descriptor	o	o	o	m		
15	AutoActionRegistration						
15.1	auto-action-type	m	m	m	m		
15.2	registration-identifier	o	o	o	m		
15.3	registration-parameter	o	c^3	o	c^3		
16	UARegistration						
16.1	ua-registration-identifier	m	m	m	m		

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
16.2	ua-list-attribute-defaults	o	o	o	o		
16.3	ua-fetch-attribute-defaults	o	o	o	o		
16.4	ua-submission-defaults	o	o	o	o		
16.4.1	object-entry-class	o	o	o	m		see A.1.8/5
16.4.2	disable-auto-modify	o	o	o	m		
16.4.3	add-message-group-names	o	o	o	o		
16.4.4	ms-submission-extensions	o	o	o	o		
16.5	content-specific-defaults	o	o	o	o		
17	MSSubmissionOptions						
17.1	object-entry-class	o	o	o	m		see A.1.8/5
17.2	disable-auto-modify	o	o	o	m		
17.3	add-message-group-names	o	o	o	o		
17.4	ms-submission-extensions	o	o	o	m		
18	OrderedAttribute						
18.1	attribute-type	m	m	m	m		
18.2	attribute-values	m	m	m	m		
18.2.1	value	m	m	m	m		
18.2.2	position	m	m	m	m		
19	EntryModification						
19.1	strict	o	o	o	m		
19.2	modification	m	m	m	m		
19.2.1	add-attribute	o	o	o	m		
19.2.2	remove-attribute	o	o	o	m		
19.2.3	add-values	o	o	o	m		see A.1.8/18
19.2.4	remove-values	o	o	o	m		see A.1.8/18

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
20	EncodedInformationTypes Constraints						
20.1	unacceptable-eits	o	o	o	c[2]		
20.2	acceptable-eits	o	o	o	c[2]		
20.3	exclusively-acceptable-eits	o	o	o	c[2]		
21	Restriction						
21.1	permitted	o	o	o	c[2]		
21.2	source-type	o	o	o	c[2]		
21.3	source-name	o	o	o	c[2]		
21.3.1	exact-match	o	m	o	m		
21.3.2	pattern-match	o	m	o	m		
22	Certificates						
22.1	userCertificate	m	m	m	m		see A.1.8/23
22.2	certificationPath	o	o	o	o		see A.1.8/23
23	Certificate						
23.1	version	o	m	o	m		
23.2	serialNumber	m	m	m	m		
23.3	signature	m	m	m	m		
23.4	issuer	m	m	m	m		
23.5	validity	m	m	m	m		
23.6	subject	m	m	m	m		
23.7	subjectPublicKeyInfo	m	m	m	m		
23.8	issuerUniqueIdentifier	o	o	o	o		
23.9	subjectUniqueIdentifier	o	o	o	o		
23.10	extensions	m	m	m	m		

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
23.10.1	authorityKeyIdentifier	o	o	o	o		
23.10.2	subjectKeyIdentifier	o	o	o	o		
23.10.3	keyUsage	o	m	o	m		
23.10.4	extKeyUsage	o	o	o	o		
23.10.5	privateKeyUsagePeriod	o	m	o	m		
23.10.6	certificatePolicies	o	m	o	m		
23.10.7	policyMappings	o	o	o	o		
23.10.8	subjectAltName	o	m	o	m		
23.10.8.1	otherName	o	o	o	o		
23.10.8.1.1	mta-name	o	o	o	o		
23.10.8.2	rfc822Name	–	–	–	–		
23.10.8.3	dNSName	–	–	–	–		
23.10.8.4	x400Address	o	o	o	o		
23.10.8.5	directoryName	o	o	o	o		
23.10.8.6	ediPartyName	–	–	–	–		
23.10.8.7	uniformResourceIdentifier	–	–	–	–		
23.10.8.8	iPAddress	–	–	–	–		
23.10.8.9	registeredID	–	–	–	–		
23.10.9	issuerAltName	o	o	o	o		
23.10.10	subjectDirectoryAttributes	o	o	o	o		
23.10.11	basicConstraints	o	m	o	m		
23.10.12	nameConstraints	o	o	o	o		
23.10.13	policyConstraints	o	o	o	o		
23.10.14	cRLDistributionPoints	o	o	o	o		
24	CertificateAssertion						
24.1	serialNumber	o	m	o	m		

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
24.2	issuer	o	m	o	m		
24.3	subjectKeyIdentifier	o	m	o	m		
24.4	authorityKeyIdentifier	o	m	o	m		
24.5	certificateValid	o	m	o	m		
24.6	privateKeyValid	o	m	o	m		
24.7	subjectPublicKeyAlgID	o	m	o	m		
24.8	keyUsage	o	m	o	m		
24.9	subjectAltName	o	m	o	m		
24.10	policy	o	m	o	m		
24.11	pathToName	–	–	–	–		

1 if fetch restrictions are supported (see A.1.3.1/1.4) then m else –

2 if the MS has a P3 interface to the MTA then m else if supported by the MTA then m else o

3 support of this element on origination by the MS-user or the MS depends on whether it is able to make use of auto-actions for which parameters are defined.

4 if Submission-log is supported then m else – (see clause 6.3.7.4 of ISO/IEC 10021-5)

5 if Submission and Delivery-log entry-classes are supported then m else – (see clause 6.3.7.4 of ISO/IEC 10021-5)

6 if Delivery-log and/or Submission-log entry-class is supported then m else – (see clause 6.3.7.4 of ISO/IEC 10021-5)

7 if the Selector is considered in the context of the Summarize operation then o else m

A.1.9 Extension data types

Ref	Element	MS-user		MS		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	m	m		
1.2	criticality	m	m	m	m		
1.3	value	m	m	m	m		

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
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						
3.1	security-policy-identifier	o	o	o	m		
3.2	security-classification	o	o	o	m		
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		

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
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
6	ProofOfSubmission						
6.1	algorithm-identifier	m	m	m	m		
6.2	message-submission-envelope	m	m	m	m		
6.3	content	m	m	m	m		
6.4	message-submission-identifier	m	m	m	m		
6.5	message-submission-time	m	m	m	m		
7	CertificateSelectors						
7.1	encryption-recipient	o	o	o	m		see A.1.8/24
7.2	encryption-originator	o	o	o	m		see A.1.8/24
7.3	content-integrity-check	o	o	o	m		see A.1.8/24
7.4	token-signature	o	o	o	m		see A.1.8/24
7.5	message-origin-authentication	o	o	o	m		see A.1.8/24
8	CertificateSelectorsOverride						
8.1	encryption-recipient	o	o	o	m		see A.1.8/24
8.2	encryption-originator	o	o	o	m		see A.1.8/24
8.3	content-integrity-check	o	o	o	m		see A.1.8/24

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
8.4	token-signature	o	o	o	m		see A.1.8/24
9	ExtendedCertificate						
9.1	directory-entry	o	o	o	m		
9.2	certificate	o	m	o	m		see A.1.8/22

A.1.10 OR-names

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

Ref	ORName Form	MS-user		MS		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	m	m		see A.1.10.6
5	unformatted postal OR address	o	o	m	m		see A.1.10.7
6	directory-name	o	o	m	m		

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

Ref	ORName Form	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	mnemonic OR-address	o	m	o	m		see A.1.10.3
2	numeric OR-address	o	o	o	m		see A.1.10.4
3	terminal OR-address	o	o	o	o		see A.1.10.5
4	formatted postal OR-address	-	-	-	-		
5	unformatted postal OR-address	-	-	-	-		
6	directory-name	o	o	o	o		

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A.1.10.3 Mnemonic OR-address

Ref	Element	MS-user		MS		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	m	m		
1.4	organization-name	o	m	m	m		
1.5	personal-name	o	m	m	m		
1.5.1	surname	m	m	m	m		
1.5.2	given-name	o	m	m	m		
1.5.3	initials	o	m	m	m		
1.5.4	generation-qualifier	o	m	m	m		
1.6	organizational-unit-names	o	m	m	m		
2	built-in-domain-defined-attributes	o	c[1]	c[1]	c[1]		
3	extension-attributes	o	m	m	m		
3.1	common-name	o	m	m	m		
3.2	teletex-common-name	o	m	m	m		
3.3	universal-common-name	o	m	m	m		see A.1.10.8
3.4	teletex-organization-name	o	m	m	m		
3.5	universal-organization-name	o	m	m	m		see A.1.10.8
3.6	teletex-personal-name	o	m	m	m		
3.6.1	surname	m	m	m	m		
3.6.2	given-name	o	m	m	m		
3.6.3	initials	o	m	m	m		
3.6.4	generation-qualifier	o	m	m	m		
3.7	universal-personal-name	o	m	m	m		
3.7.1	surname	m	m	m	m		see A.1.10.8

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
3.7.2	given-name	o	m	m	m		see A.1.10.8
3.7.3	initials	o	m	m	m		see A.1.10.8
3.7.4	generation-qualifier	o	m	m	m		see A.1.10.8
3.8	teletex-organizational-unit-names	o	m	m	m		
3.9	universal-organizational-unit-names	o	m	m	m		see A.1.10.8
3.10	teletex-domain-defined-attributes	o	c[1]	c[1]	c[1]		
3.11	universal-domain-defined-attributes	o	c[1]	c[1]	c[1]		see A.1.10.8
1 if the mnemonic OR-address form is considered in the context of local MTS-user identification then o else m							

A.1.10.4 Numeric OR-address

Ref	Element	MS-user		MS		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	m	m		
1.4	numeric-user-identifier	m	m	m	m		
2	built-in-domain-defined-attributes	o	c[1]	c[1]	c[1]		
3	extension-attributes	o	m	m	m		
3.1	teletex-domain-defined-attributes	o	c[1]	c[1]	c[1]		
3.2	universal-domain-defined-attributes	o	c[1]	c[1]	c[1]		see A.1.10.8
1 if the numeric OR-address form is considered in the context of local MTS-user identification then o else m							

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A.1.10.5 Terminal OR-address

Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	built-in-standard-attributes	m	m	m	m		
1.1	country-name	o	m	m	m		
1.2	administration-domain-name	o	m	m	m		
1.3	network-address	m	m	m	m		
1.4	terminal-identifier	o	m	m	m		
1.5	private-domain-name	o	m	m	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	c[1]	c[1]	c[1]		
3	extension-attributes	o	m	m	m		
3.1	extended-network-address	m	m	m	m		
3.1.1	e163-4-address	o	o	m	m		
3.1.2	psap-address	o	o	m	m		
3.2	terminal-type	o	m	m	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

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
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	c[1]	c[1]	c[1]		
3.15	universal-domain-defined-attributes	o	c[1]	c[1]	c[1]		see A.1.10.8
1 if the terminal OR-address form is considered in the context of local MTS-user identification then o else m							

A.1.10.6 Formatted postal OR-address

Ref	Element	MS-user		MS		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	m	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	m	m		
2.3	universal-physical-delivery-office-name	o	m	m	m		see A.1.10.8
2.4	physical-delivery-office-number	o	m	m	m		
2.5	universal-physical-delivery-office-number	o	m	m	m		see A.1.10.8
2.6	physical-delivery-organization-name	o	m	m	m		
2.7	universal-physical-delivery-organization-name	o	m	m	m		see A.1.10.8
2.8	physical-delivery-personal-name	o	m	m	m		
2.9	universal-physical-delivery-personal-name	o	m	m	m		see A.1.10.8

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
2.10	postal-code	m	m	m	m		
2.11	poste-restante-address	o	m	m	m		
2.12	universal-poste-restante-address	o	m	m	m		see A.1.10.8
2.13	post-office-box-address	o	m	m	m		
2.14	universal-post-office-box-address	o	m	m	m		see A.1.10.8
2.15	pds-name	o	m	m	m		
2.16	street-address	o	m	m	m		
2.17	universal-street-address	o	m	m	m		see A.1.10.8
2.18	unique-postal-name	o	m	m	m		
2.19	universal-unique-postal-name	o	m	m	m		see A.1.10.8
2.20	extension-OR-address-components	o	m	m	m		
2.21	universal-extension-OR-address-components	o	m	m	m		see A.1.10.8
2.22	extension-physical-delivery-address-components	o	m	m	m		
2.23	universal-extension-physical-delivery-address-components	o	m	m	m		see A.1.10.8
2.24	local-postal-attributes	o	m	m	m		
2.25	universal-local-postal-attributes	o	m	m	m		see A.1.10.8

A.1.10.7 Unformatted postal OR-address

Ref	Element	MS-user		MS		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	m	m		
2	extension-attributes	m	m	m	m		

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
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	m	m		

A.1.10.8 UniversalOrBMPString

Ref	Element	MS-user		MS		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.1.11 Token types

Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	asymmetric-token	o	o	o	o		
1.1	signature-algorithm-identifier	m	m	m	m		
1.2	name	m	m	m	m		
1.2.1	recipient-name	m	m	m	m		
1.2.2	mta	–	–	–	–		
1.3	time	m	m	m	m		
1.4	signed-data	o	o	o	o		

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Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1.5	encryption-algorithm-identifier	o	o	o	o		
1.6	encrypted-data	o	o	o	o		

A.1.12 Auto-actions

A.1.12.1 Support of auto-actions

Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	auto-alert	o	o	o	o		see A.1.12.2
2	auto-modify	o	o	o	o		see A.1.12.3
3	auto-correlate-reports	o	o	o	o		
4	auto-delete	o	o	o	o		

A.1.12.2 AutoAlertRegistrationParameter

Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	filter	o	o	m	m		see A.1.8/3
2	alert-destinations	o	o	o	o		
2.1	alert-address	m	m	m	m		
2.2	alert-qualifier	o	o	o	o		
3	requested-attributes	o	o	m	m		see A.1.8/1
4	suppress-alert-destinations	o	o	o	m		

A.1.12.3 AutoModifyRegistrationParameter

Ref	Element	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	entry-class	o	o	o	m		see A.1.8/5
2	filter	o	o	m	m		see A.1.8/3
3	modifications	m	m	m	m		see A.1.8/19

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A.1.13 General attributes

A.1.13.1 Support in the Stored-message subordinate entry-classes

This table specifies the requirements for the support of general attribute-types in the Delivery, Submission and Draft entry-classes, as relevant for the attribute-type.

Ref	Attribute	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	AC-correlated-report-list	o	o	o	o		
2	AC-report-subject-entry	o	o	o	o		
3	AC-report-summary	o	o	o	o		
4	AC-uncorrelated-report-list	o	o	o	o		
5	certificate-selectors	o	o	o	o		see A.1.9/7
6	child-sequence-numbers	o	o	m	m		
7	content	o	m	m	m		
8	content-confidentiality-algorithm-identifier	o	o	o	o		
9	content-correlator	o	o	o	o		
10	content-identifier	o	o	o	o		
11	content-integrity-check	o	o	o	o		
12	content-length	o	o	o	m		
13	content-returned	o	o	o	o		
14	content-type	o	m	m	m		
15	conversion-with-loss-prohibited	o	o	o	o		
16	converted-EITs	o	o	o	o		
17	creation-time	o	o	m	m		
18	deferred-delivery-cancellation-time	o	o	o	o		
19	deferred-delivery-time	o	o	o	o		
20	delivered-EITs	o	o	o	m		
21	delivery-flags	o	o	o	o		
22	dl-exempted-recipients	o	o	o	o		

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Ref	Attribute	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
23	dl-expansion-history	o	o	o	o		
24	dl-expansion-prohibited	o	o	o	o		
25	entry-type	o	o	m	m		
26	internal-trace-information	o	o	o	o		
27	latest-delivery-time	o	o	o	o		
28	locally-originated	o	o	o	o		
29	marked-for-deletion	o^2	o^2	o^2	o^2		
30	message-delivery-envelope	o	m^1	m	m		
31	message-delivery-time	o	o	o	o		
32	message-group-name	o^2	o^2	o^2	o^2		
33	message-identifier	o	o	o	o		
34	message-notes	o^2	o^2	o^2	o^2		
35	message-origin-authentication-check	o	o	o	o		
36	message-security-label	o	o	o	o		
37	message-submission-envelope	o	o	m	m		
38	message-submission-time	o	o	o	o		
39	message-token	o	o	o	o		
40	ms-originated	o	o	o	o		
41	ms-submission-error	o	o	o	o		
42	multiple-originator-certificates	o	o	o	o		see A.1.9/9
43	original-EITs	o	o	o	o		
44	originally-intended-recipient-name	o	o	o	o		
45	originating-MTA-certificate	o	o	o	o		see A.1.8/22
46	originating-MTA-certificate-selector	o	o	o	o		see A.1.8/24
47	originator-certificate	o	o	o	o		see A.1.8/22
48	originator-name	o	o	o	m		

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Ref	Attribute	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
49	originator-report-request	o	o	o	o		
50	originator-return-address	o	o	o	o		
51	other-recipient-names	o	o	o	o		
52	parent-sequence-number	o	o	m	m		
53	per-message-indicators	o	o	o	o		
54	per-recipient-message-submission-fields	o	o	o	o		
55	per-recipient-probe-submission-fields	o	o	o	o		
56	per-recipient-report-delivery-fields	o	o	m	m		
57	priority	o	o	o	m		
58	probe-origin-authentication-check	o	o	o	o		
59	probe-submission-envelope	o	o	o	o		
60	proof-of-delivery-request	o	o	o	o		
61	proof-of-submission	o	o	o	o		
62	recipient-certificate	o	o	o	o		see A.1.8/22
63	recipient-names	o	o	o	o		
64	recipient-reassignment-prohibited	o	o	o	o		
65	redirection-history	o	o	o	o		
66	report-delivery-envelope	o	m[1]	m	m		
67	report-origin-authentication-check	o	o	o	o		
68	reporting-DL-name	o	o	o	o		
69	reporting-MTA-certificate	o	o	o	o		see A.1.8/22
70	retrieval-status	o	m	m	m		
71	security-classification	o	o	o	o		
721	sequence-number	o	o	m	m		
73	signature-verification-status	o	o	o	o		

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Ref	Attribute	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
74	storage-period	o[2]	o[2]	o[2]	o[2]		
75	storage-time	o[2]	o[2]	o[2]	o[2]		
76	subject-submission-identifier	o	o	m	m		
77	this-recipient-name	o	o	o	o		
78	trace-information	o	o	o	o		

1 the requirements for support of the elements of a delivery envelope by a MS-user are as specified in ISO/IEC ISP 10611-4 (i.e. a claim of support of such an attribute means that at least the minimum requirements of ISO/IEC ISP 10611-4 with respect to the component elements of the envelope are met)

2 if this attribute is supported then the Modify abstract-operation shall be supported

A.1.13.2 Support in the Message-log subordinate entry-classes

This table specifies the requirements for the support of general attribute-types in the Delivery-log and Submission-log entry-classes, as relevant for the attribute-type.

Ref	Attribute	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	AC-correlated-report-list	o	o	c[2]	c[2]		
2	AC-report-subject-entry	o	o	c[2]	c[2]		
3	AC-report-summary	o	o	c[2]	c[2]		
4	AC-uncorrelated-report-list	o	o	c[2]	c[2]		
5	certificate-selectors	o	o	c[2]	c[2]		
6	child-sequence-numbers	o	o	m	m		
7	content-confidentiality-algorithm-identifier	o	o	c[2]	c[2]		
8	content-correlator	o	o	c[2]	c[2]		
9	content-identifier	o	o	c[2]	c[2]		
10	content-integrity-check	o	o	c[2]	c[2]		
11	content-length	o	o	c[2]	c[2]		
12	content-returned	o	o	c[2]	c[2]		
13	content-type	m	m	m	m		

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Ref	Attribute	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
14	conversion-with-loss-prohibited	o	o	c^2	c^2		
15	converted-EITs	o	o	c^2	c^2		
16	creation-time	o	o	m	m		
17	deferred-delivery-cancellation-time	o	o	c^2	c^2		
18	deferred-delivery-time	o	o	c^2	c^2		
19	deletion-time	m	m	m	m		
20	delivered-EITs	o	o	c^2	c^2		
21	delivery-flags	o	o	c^2	c^2		
22	dl-exempted-recipients	o	o	c^2	c^2		
23	dl-expansion-history	o	o	c^2	c^2		
24	dl-expansion-prohibited	o	o	c^2	c^2		
25	entry-type	o	o	m	m		
26	internal-trace-information	o	o	c^2	c^2		
27	latest-delivery-time	o	o	c^2	c^2		
28	locally-originated	o	o	c^2	c^2		
29	marked-for-deletion[1]	o	o	c^2	c^2		
30	message-delivery-time	o	o	c^2	c^2		
31	message-group-name[1]	o	o	c^2	c^2		
32	message -identifier	o	o	c^2	c^2		
33	message-notes[1]	o	o	c^2	c^2		
34	message-origin-authentication-check	o	o	c^2	c^2		
35	message-security-label	o	o	c^2	c^2		
36	message-submission-time	o	o	c^2	c^2		
37	message-token	o	o	c^2	c^2		
38	ms-originated	o	o	c^2	c^2		
39	ms-submission-error	o	o	c^2	c^2		

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Ref	Attribute	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
40	multiple-originator-certificates	o	o	c^2	c^2		
41	original-EITs	o	o	c^2	c^2		
42	originally-intended-recipient-name	o	o	c^2	c^2		
43	originating-MTA-certificate	o	o	c^2	c^2		see A.1.8/22
44	originating-MTA-certificate-selector	o	o	c^2	c^2		
45	originator-certificate	o	o	c^2	c^2		see A.1.8/22
46	originator-name	o	o	c^2	c^2		
47	originator-report-request	o	o	c^2	c^2		
48	originator-return-address	o	o	c^2	c^2		
49	other-recipient-names	o	o	c^2	c^2		
50	parent-sequence-number	o	o	m	m		
51	per-message-indicators	o	o	c^2	c^2		
52	per-recipient-message-submission-fields	o	o	c^2	c^2		
53	per-recipient-probe-submission-fields	o	o	c^2	c^2		
54	per-recipient-report-delivery-fields	o	o	m	m		
55	priority	o	o	c^2	c^2		
56	probe-origin-authentication-check	o	o	c^2	c^2		
57	probe-submission-envelope	o	o	c^2	c^2		
58	proof-of-delivery-request	o	o	c^2	c^2		
59	proof-of-submission	o	o	c^2	c^2		
60	recipient-certificate	o	o	c^2	c^2		
61	recipient-names	o	o	c^2	c^2		
62	recipient-reassignment-prohibited	o	o	c^2	c^2		
63	redirection-history	o	o	c^2	c^2		
64	report-origin-authentication-check	o	o	c^2	c^2		

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Ref	Attribute	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
65	reporting-DL-name	o	o	c[2]	c[2]		
66	reporting-MTA-certificate	o	o	c[2]	c[2]		see A.1.8/22
67	retrieval-status	m	m	m	m		
68	security-classification	o	o	c[2]	c[2]		
69	sequence-number	m	m	m	m		
70	signature-verification-status	o	o	c[2]	c[2]		
71	storage-period[1]	o	o	c[2]	c[2]		
72	storage-time[1]	o	o	c[2]	c[2]		
73	subject-submission-identifier	o	o	m	m		
74	this-recipient-name	o	o	c[2]	c[2]		
75	trace-information	o	o	c[2]	c[2]		

1 if this attribute is supported then the Modify abstract-operation and/or the auto-modify auto-action shall be supported

2 if supported in the corresponding Stored-message subordinate entry-class then o else –

A.1.13.3 Support in the Auto-action-log entry-class

This table specifies the requirements for the support of general attribute-types in the Auto-action-log entry-class.

Ref	Attribute	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	auto-action-error	o	m	m	m		
2	auto-action-registration-identifier	o	m	m	m		
3	auto-action-subject-entry	o	m	m	m		
4	auto-action-type	o	m	m	m		
5	content-type	o	o	m	m		
6	creation-time	o	m	m	m		
7	entry-type	o	m	m	m		
8	retrieval-status	o	m	m	m		
9	sequence-number	o	m	m	m		

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A.1.14 General matching-rules

The following table shall be completed to indicate which general matching-rules are supported by the implementation.

Ref	Matching Rule	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
1	bitStringMatch	o	o	o	o		
2	booleanMatch	o	o	o	o		
3	contentIdentifierMatch	o	o	o	o		
4	integerMatch	o	o	m	m		
5	integerOrderingMatch	o	o	m	m		
6	mSStringCaseSensitiveMatch	o	o	o	o		
7	objectIdentifierMatch	o	o	m	m		
8	uTCTimeMatch	o	o	m	m		
9	uTCTimeOrderingMatch	o	o	m	m		
10	contentCorrelatorMatch	o	o	o	o		
11	mSSingleSubstringMatch[1]	i	i	i	i		
12	mSStringListElementsMatch	o	o	o	o		
13	mSStringListMatch	o	o	o	o		
14	mSStringMatch	o	o	o	o		
15	mSStringOrderingMatch1	i	i	i	i		
16	mSSingleSubstringListElements Match	o	o	o	o		
17	mSSingleSubstringListMatch	o	o	o	o		
18	mSSubstringsMatch	o	o	o	o		
19	mTSIdentifierMatch	o	o	o	o		
20	oRAddressElementsMatch	o	o	o	o		
21	oRAddressMatch	o	o	o	o		
22	oRAddressSubstringElementsMatch	o	o	o	o		

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Ref	Matching Rule	MS-user		MS		Support	Notes/References
		Base	Profile	Base	Profile		
23	oRNameElementsMatch	o	o	o	o		
24	oRNameMatch	o	o	o	o		
25	oRNameSingleElementMatch	o	o	o	o		
26	oRNameSubstringElementsMatch	o	o	o	o		
27	redirectionOrDLExpansionElements Match	o	o	o	o		
28	redirectionOrDLExpansionMatch	o	o	o	o		
29	redirectionOrDLExpansionSingle ElementMatch	o	o	o	o		
30	redirectionOrDLExpansionSubstring ElementsMatch	o	o	o	o		
31	redirectionReasonMatch	o	o	o	o		
32	valueCountMatch	o	o	o	o		
1 This matching-rule is not used in any attribute and is merely defined for the purpose of reference in the definition of other matching-rules.							

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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 Distribution List (DL): Exempted Recipients class (DL+ER)

A.2.1.1 MessageSubmissionEnvelope

Ref	Element	Profile	
		MS-user	MS
A.1.4/8.14	dl-exempted-recipients	m	m

A.2.1.2 General attributes: support in the Stored-message subordinate entry-classes

Ref	Element	Profile	
		MS-user	MS
A.1.13.1/22	dl-exempted-recipients	m	m

A.2.2 Physical Delivery (PD)

The support requirements specified below are for a MS-user on submission. Support of the PDAU is specified in ISO/IEC ISP 10611-3 and ISO/IEC ISP 10611-4.

A.2.2.1 MessageSubmissionEnvelope

Ref	Element	Profile	
		MS-user	MS
A.1.4/9.4.3	physical-forwarding-prohibited	m	
A.1.4/9.4.5	physical-delivery-modes	m	

A.2.2.2 OR-names

Ref	ORName Form	Profile	
		MS-user	MS
A.1.10.1/4	formatted postal OR-address	m	
A.1.10.1/5	unformatted postal OR-address	m	

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A.2.3 Latest Delivery (LD)

A.2.3.1 MessageSubmissionEnvelope

Ref	Element	Profile	
		MS-user	MS
A.1.4/8.4	latest-delivery-time	m	

A.2.4 Return of Content (RoC)

A.2.4.1 Common data types

Ref	Element	Profile	
		MS-user	MS
A.1.8/12	PerMessageIndicators		
A.1.8/12.4	content-return-request	m	

A.2.4.2 General attributes: support in the Stored-message subordinate entry-classes

Ref	Element	Profile	
		MS-user	MS
A.1.13.1/13	content-returned	m	m

A.2.5 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.2.5.1 Supported operations

A.2.5.1.1 Message Administration Service Element 94 (MASE-94)

Ref	Element	MS-user			MS		
		S0	S1	S2	S0	S1	S2
A.1.2.4/3	ChangeCredentials (MS-user to MTA via MS)		i	i		i	i

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A.2.5.2 Operation arguments/results

A.2.5.2.1 MSBind

Ref	Element	MS-user			MS		
		S0	S1	S2	S0	S1	S2
A.1.3.1/1.2	initiator-credentials						
A.1.3.1/1.2.1	simple		i	i		i	i
A.1.3.1/1.2.2	strong		m	m		m	m
A.1.3.1/1.2.2.2	certificate		m	m		m	m
A.1.3.1/1.2.2.3	certificate-selector		m	m		m	m
A.1.3.1/1.3	security-context		m	m		m	m
A.1.3.1/2.1	responder-credentials						
A.1.3.1/2.1.1	simple		i	i		i	i
A.1.3.1/2.1.2	strong		m	m		m	m
A.1.3.1/2.1.2.2	certificate		m	m		m	m
A.1.3.1/2.1.2.3	certificate-selector		m	m		m	m

A.2.5.2.2 MessageSubmission

Ref	Element	MS-user			MS		
		S0	S1	S2	S0	S1	S2
A.1.3.2/1.3	submission-options	cC	cC	cC	c^1	c^1	c^1
A.1.3.2/1.3.4	ms-submission-extensions	cC	cC	cC			
A.1.3.2/1.3.4.1	originator-token	cC	cC	cC	c^1	c^1	c^1
A.1.3.2/1.3.4.2	originator-certificate-selectors-override	cC	cC	cC	c^1	c^1	c^1
A.1.3.2/2.1.4.1	originating-MTA-certificate	i	i	o	i	i	o
A.1.3.2/2.1.4.2	proof-of-submission	i	i	m	i	i	m
A.1.3.2/2.1.4.3	originating-MTA-certificate-selector	i	i	o	i	i	o

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Ref	Element	MS-user			MS		
		S0	S1	S2	S0	S1	S2
1 shall be supported if storage on submission is supported							

A.2.5.2.3 SubmissionControl

Ref	Element	MS-user			MS		
		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.2.5.2.4 Register-MS

Ref	Element	MS-user			MS		
		S0	S1	S2	S0	S1	S2
A.1.3.10/1.5	change-credentials		I	I		I	i
A.1.3.10/1.6	user-security-labels		m	m		m	m

A.2.5.2.5 Register

Ref	Element	MS-user			MS		
		S0	S1	S2	S0	S1	S2
A.1.3.13/1.3.4	security-label		m	m		m	m

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Ref	Element	MS-user			MS		
		S0	S1	S2	S0	S1	S2
A.1.3.13/1.5.1.4	security-label		m	m		m	m
A.1.3.13/2.2.1.3.4	security-label		m	m		m	m
A.1.3.13/2.2.1.5.1.4	security-label		m	m		m	m

A.2.5.3 MessageSubmissionEnvelope

Ref	Element	MS-user			MS		
		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
A.1.4/9.4.14	recipient-certificate	cC	cC	cC	m	m	m

A.2.5.4 ProbeSubmissionEnvelope

Ref	Element	MS-user			MS		
		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

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Ref	Element	MS-user			MS		
		S0	S1	S2	S0	S1	S2
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.2.5.5 Common data types

Ref	Element	MS-user			MS		
		S0	S1	S2	S0	S1	S2
A.1.8/23	Certificate						
A.1.8/23.10.8.4	x400Address	m	m	m		m	m

A.2.5.6 Extension data types

Ref	Element	MS-user			MS		
		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						
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

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Ref	Element	MS-user			MS		
		S0	S1	S2	S0	S1	S2
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.2.5.7 Token types

Ref	Element	MS-user			MS		
		S0	S1	S2	S0	S1	S2
A.1.11/1.4	signed-data		m	m		m	m

A.2.5.8 General attributes: support in the Stored-message subordinate entry-classes

Ref	Element	MS-user			MS		
		S0	S1	S2	S0	S1	S2
A.1.13.1/5	certificate-selectors	m	m	m	m	m	m
A.1.13.1/8	content-confidentiality-algorithm-identifier	cC	cC	cC	cC	cC	cC
A.1.13.1/11	content-integrity-check	m	m	m	m	m	m
A.1.13.1/35	message-origin-authentication-check			m			m
A.1.13.1/36	message-security-label		m	m		m	m
A.1.13.1/39	message-token	m	m	m	m	m	m
A.1.13.1/42	multiple-originator-certificates	m	m	m	m	m	m
A.1.13.1/45	originating-MTA-certificate			m			m
A.1.13.1/46	originating-MTA-certificate-selector			m			m
A.1.13.1/47	originator-certificate	m	m	m	m	m	m
A.1.13.1/58	probe-origin-authentication-check			m			m
A.1.13.1/60	proof-of-delivery-request		m	m		m	m

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Ref	Element	MS-user			MS		
		S0	S1	S2	S0	S1	S2
A.1.13.1/61	proof-of-submission			m			m
A.1.13.1/62	recipient-certificate	cC	m	m	cC	m	m
A.1.13.1/67	report-origin-authentication-check			m			m
A.1.13.1/69	reporting-MTA-certificate			m			m
A.1.13.1/71	security-classification		m	m		m	m
A.1.13.1/73	signature-verification-status						m

A.2.6 Use of Directory (DIR)

A.2.6.1 Extension data types

Ref	Element	Profile	
		MS-user	MS
A.1.9/9	ExtendedCertificate		
A.1.9/9.1	directory-entry	c[1]	
1 shall be supported if DIR+SEC class is claimed			

A.2.6.2 OR-names

Ref	ORname Form	Profile	
		MS-user	MS
A.1.10.1/6	directory-name	m	
A.1.10.2/6	directory-name	m	m

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A.2.7 Simple Protected Password (SPP)

A.2.7.1 MSBind

Ref	Element	Profile	
		MS-user	MS
A.1.3.1/1.2.3	protected	m	m
A.1.3.1/2.1.3	protected	m	m
A.1.3.1/2.8.3	protected-change-credentials-capability	m	m

A.2.7.2 Register-MS

Ref	Element	Profile	
		MS-user	MS
A.1.3.10/1.11	register-ms-extensions	m	
A.1.3.10/1.11.1	protected-change-credentials	m	m

A.2.8 Redirection instructions (RED2)

A.2.8.1 Register

Ref	Element	Profile	
		MS-user	MS
A.1.3.13/1.5	redirections	m	m
A.1.3.13/1.5.1	redirections-classes	m	m
A.1.3.13/1.5.1.1	content-types	m	m
A.1.3.13/1.5.1.2	maximum-content-length	m	m
A.1.3.13/1.5.1.3	encoded-information-types-constraints	o	m
A.1.3.13/1.5.1.5	priority	m	m
A.1.3.13/1.5.1.6	objects	m	m
A.1.3.13/1.5.1.7	applies-only-to	m	m

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A.2.9 Delivery constraints (DC)

A.2.9.1 Register

Ref	Element	Profile	
		MS-user	MS
A.1.3.13/1.3	deliverable-class	m	m
A.1.3.13/1.3.1	content-types	m	m
A.1.3.13/1.3.2	maximum-content-length	m	m
A.1.3.13/1.3.3	encoded-information-types-constraints	m	m

A.2.9.2 Common data types

Ref	Element	Profile	
		MS-user	MS
A.1.8/20	EncodedInformationTypesConstraints		
A.1.8/20.1	unacceptable-eits	m[1]	m
A.1.8/20.2	acceptable-eits	m[1]	m
A.1.8/20.3	exclusively-acceptable-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.2.10 Restricted Delivery (RD)

A.2.10.1 Register

Ref	Element	Profile	
		MS-user	MS
A.1.3.13/1.6	redirected-delivery	m	m

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A.2.10.2 Common data types

Ref	Element	Profile	
		MS-user	MS
A.1.8/21	Restriction		
A.1.8/21.1	permitted	m	m
A.1.8/21.2	source-type	m	m
A.1.8/21.3	source-name	m	m

A.2.11 Storage and Grouping (SG)

A.2.11.1 Message Retrieval Service Element 94 (MRSE-94)

Ref	Element	Profile	
		MS-user	MS
A.1.2.3/5	Register-MS	m	
A.1.2.3/7	Modify	m	m

A.2.11.2 MSBind

Ref	Element	Profile	
		MS-user	MS
A.1.3.1/1.5	ms-configuration-request	m	
A.1.3.1/2.6	entry-classes-supported	m	m
A.1.3.1/2.8	bind-result-extensions	m	m
A.1.3.1/2.8.1	modify-capability	m	m
A.1.3.1/2.9	message-group-depth	m	m

A.2.11.3 MSMessageSubmission

Ref	Element	Profile	
		MS-user	MS
A.1.3.2/1.3	submission-options	m	m
A.1.3.2/1.3.1	object-entry-class	m	m

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Ref	Element	Profile	
		MS-user	MS
A.1.3.2/1.3.3	add-message-group-names	m	m
A.1.3.2/1.3.4	ms-submission-extensions		m
A.1.3.2/1.3.4.1	originator-token		c[1]
A.1.3.2/1.3.4.2	originator-certificate-selectors-override		c[2]
A.1.3.2/2.1.5	ms-message-result	m	m
A.1.3.2/2.1.5.1	created-entry	m	m

1 shall be supported if the message-token attribute is supported

2 shall be supported if the certificate-selectors attribute is supported

A.2.11.4 MSProbeSubmission

Ref	Element	Profile	
		MS-user	MS
A.1.3.3/1.2	submission-options	m	m
A.1.3.3/1.2.1	object-entry-class	m	m
A.1.3.3/1.2.3	add-message-group-names	m	m
A.1.3.3/2.5	ms-probe-result	m	m
A.1.3.3/2.5.1	created-entry	m	m

A.2.11.5 Summarize

Ref	Element	Profile	
		MS-user	MS
A.1.3.6/1.1	entry-class	m	

A.2.11.6 List

Ref	Element	Profile	
		MS-user	MS
A.1.3.7/1.1	entry-class	m	

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A.2.11.7 Fetch

Ref	Element	Profile	
		MS-user	MS
A.1.3.8/1.1	entry-class	m	

A.2.11.8 Delete

Ref	Element	Profile	
		MS-user	MS
A.1.3.9/1.1	entry-class	m	

A.2.11.9 Register-MS

Ref	Element	Profile	
		MS-user	MS
A.1.3.10/1.8	submission-defaults	m	m
A.1.3.10/1.8.1	object-entry-class	m	
A.1.3.10/1.8.3	add-message-group-names	m	m
A.1.3.10/1.9	message-group-registrations	m	m
A.1.3.10/1.10	registration-status-request	m	m
A.1.3.10/1.10.2	restrict-message-groups	m	
A.1.3.10/1.10.2.1	parent-group	m	
A.1.3.10/1.10.2.2	immediate-descendants-only	m	
A.1.3.10/1.10.2.3	omit-descriptors	m	
A.1.3.10/2.2	registered-information	m	m
A.1.3.10/2.2.6	message-group-registrations	m	m

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A.2.11.10 Modify

Ref	Element	Profile	
		MS-user	MS
A.1.3.12/1.1	entry-class	m	
A.1.3.12/1.2.2	specific-entries	m	

A.2.11.11 Common data types

Ref	Element	Profile	
		MS-user	MS
A.1.8/5.2	submission	m	m
A.1.8/14.2	message-group-descriptor	m	
A.1.8/16.4	ua-submission-defaults	m	m
A.1.8/16.4.1	object-entry-class	m	
A.1.8/16.4.3	add-message-group-names	m	m
A.1.8/17.1	object-entry-class	m	
A.1.8/17.3	add-message-group-names	m	m

A.2.11.12 AutoModifyRegistrationParameter

Ref	Element	Profile	
		MS-user	MS
A.1.12.3/1	entry-class	m	
A.1.12.3/2	filter	m	

A.2.11.13 General attributes: support in Stored-message subordinate entry-classes

Ref	Element	Profile	
		MS-user	MS
A.1.13.1/32	message-group-name	m	m

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A.2.12 Alert (ALERT)

A.2.12.1 Message Retrieval Service Element 94 (MRSE-94)

Ref	Element	Profile	
		MS-user	MS
A.1.2.3/5	Register-MS	m	
A.1.2.3/6	Alert	m	m

A.2.12.2 MSBind

Ref	Element	Profile	
		MS-user	MS
A.1.3.1/1.5	ms-configuration-request	m	
A.1.3.1/2.2	available-auto-actions	m	m
A.1.3.1/2.4	alert-indication	m	m
A.1.3.1/2.10	auto-action-error-indication	m	m
A.1.3.1/2.10.1	indication-only	–	–
A.1.3.1/2.10.2	auto-action-log-entry	m	m

A.2.12.3 Register-MS

Ref	Element	Profile	
		MS-user	MS
A.1.3.10/1.1	auto-action-registrations	m	m
A.1.3.10/1.2	auto-action-deregistrations	m	m
A.1.3.10/1.2.2	registration-identifier	m	
A.1.3.10/1.10	registration-status-request	m	m
A.1.3.10/2.2	registered-information	m	m
A.1.3.10/2.2.1	auto-action-registrations	m	m

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A.2.12.4 Common data types

Ref	Element	Profile	
		MS-user	MS
A.1.8/5.8	auto-action-log	m	m
A.1.8/15.2	registration-identifier	m	
A.1.8/15.3	registration-parameter	m	m

A.2.12.5 Support of auto-actions

Ref	Element	Profile	
		MS-user	MS
A.1.12.1/1	auto-alert	m	m

A.2.12.6 AutoAlertRegistrationParameter

Ref	Element	Profile	
		MS-user	MS
A.1.12.2/1	filter	m	
A.1.12.2/3	requested-attributes	m	

A.2.13 Auto Annotation (AA)

A.2.13.1 Message Retrieval Service Element 94 (MRSE-94)

Ref	Element	Profile	
		MS-user	MS
A.1.2.3/5	Register-MS	m	
A.1.2.3/7	Modify	m	m

A.2.13.2 MSBind

Ref	Element	Profile	
		MS-user	MS
A.1.3.1/1.5	ms-configuration-request	m	
A.1.3.1/2.2	available-auto-actions	m	m

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Ref	Element	Profile	
		MS-user	MS
A.1.3.1/2.3	available-attribute-types	m	
A.1.3.1/2.8	bind-result-extensions	m	m
A.1.3.1/2.8.1	modify-capability	m	m
A.1.3.1/2.10	auto-action-error-indication	m	m
A.1.3.1/2.10.1	indication-only	–	–
A.1.3.1/2.10.2	auto-action-log-entry	m	m

A.2.13.3 MSMessageSubmission

Ref	Element	Profile	
		MS-user	MS
A.1.3.2/1.3	submission-options	o	m
A.1.3.2/1.3.2	disable-auto-modify	o	m

A.2.13.4 MSProbeSubmission

Ref	Element	Profile	
		MS-user	MS
A.1.3.3/1.2	submission-options	o	m
A.1.3.3/1.2.2	disable-auto-modify	o	m

A.2.13.5 Register-MS

Ref	Element	Profile	
		MS-user	MS
A.1.3.10/1.1	auto-action-registrations	m	m
A.1.3.10/1.2	auto-action-deregistrations	m	m
A.1.3.10/1.2.2	registration-identifier	m	
A.1.3.10/1.8	submission-defaults	m	m
A.1.3.10/1.8.2	disable-auto-modify	m	
A.1.3.10/1.10	registration-status-request	m	m

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Ref	Element	Profile	
		MS-user	MS
A.1.3.10/2.2	registered-information	m	m
A.1.3.10/2.2.1	auto-action-registrations	m	m

A.2.13.6 Modify

Ref	Element	Profile	
		MS-user	MS
A.1.3.12/1.2.2	specific-entries	m	

A.2.13.7 Common data types

Ref	Element	Profile	
		MS-user	MS
A.1.8/5.8	auto-action-log	m	m
A.1.8/15.3	registration-parameter	o	m
A.1.8/16.4	ua-submission-defaults	m	m
A.1.8/16.4.2	disable-auto-modify	m	
A.1.8/17.2	disable-auto-modify	m	
A.1.8/19.2.3	add-values	m	
A.1.8/19.2.4	remove-values	m	

A.2.13.8 Support of auto-actions

Ref	Element	Profile	
		MS-user	MS
A.1.12.1/2	auto-modify	m	m

A.2.13.9 AutoModifyRegistrationParameter

Ref	Element	Profile	
		MS-user	MS
A.1.12.3/2	filter	m	

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A.2.13.8 General attributes: support in Stored-message subordinate entry-classes

Ref	Element	Profile	
		MS-user	MS
A.1.13.1/34	message-notes	m	m

A.2.14 Auto Grouping (AG)

A.2.14.1 Message Retrieval Service Element 94 (MRSE-94)

Ref	Element	Profile	
		MS-user	MS
A.1.2.3/5	Register-MS	m	
A.1.2.3/7	Modify	m	m

A.2.14.2 MSBind

Ref	Element	Profile	
		MS-user	MS
A.1.3.1/1.5	ms-configuration-request	m	
A.1.3.1/2.2	available-auto-actions	m	m
A.1.3.1/2.3	available-attribute-types	m	
A.1.3.1/2.8	bind-result-extensions	m	m
A.1.3.1/2.8.1	modify-capability	m	m
A.1.3/2.9	message-group-depth	m	m
A.1.3.1/2.10	auto-action-error-indication	m	m
A.1.3.1/2.10.1	indication-only	–	–
A.1.3.1/2.10.2	auto-action-log-entry	m	m

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A.2.14.3 MSMessageSubmission

Ref	Element	Profile	
		MS-user	MS
A.1.3.2/1.3	submission-options	o	m
A.1.3.2/1.3.2	disable-auto-modify	o	m

A.2.14.4 MSProbeSubmission

Ref	Element	Profile	
		MS-user	MS
A.1.3.3/1.2	submission-options	o	m
A.1.3.3/1.2.2	disable-auto-modify	o	m

A.2.14.5 Register-MS

Ref	Element	Profile	
		MS-user	MS
A.1.3.10/1.1	auto-action-registrations	m	m
A.1.3.10/1.2	auto-action-deregistrations	m	m
A.1.3.10/1.8.2	disable-auto-modify	m	
A.1.3.10/1.9	message-group-registrations	m	m
A.1.3.10/1.10	registration-status-request	m	m
A.1.3.10/1.10.2	restrict-message-groups	m	m
A.1.3.10/1.10.2.1	parent-group	m	
A.1.3.10/1.10.2.2	immediate-descendants-only	m	
A.1.3.10/1.10.2.3	omit-descriptors	m	
A.1.3.10/2.2	registered-information	m	m
A.1.3.10/2.2.1	auto-action-registrations	m	m
A.1.3.10/2.2.6	message-group-registrations	m	m

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A.2.14.6 Modify

Ref	Element	Profile	
		MS-user	MS
A.1.3.12/1.2.2	specific-entries	m	

A.2.14.7 Common data types

Ref	Element	Profile	
		MS-user	MS
A.1.8/5.8	auto-action-log	m	m
A.1.8/14.2	message-group-descriptor	m	
A.1.8/15.2	registration-identifier	m	
A.1.8/15.3	registration-parameter	m	m
A.1.8/16.4.2	disable-auto-modify	m	
A.1.8/17.2	disable-auto-modify	m	
A.1.8/19.2.3	add-values	m	
A.1.8/19.2.4	remove-values	m	

A.2.14.8 Support of auto-actions

Ref	Element	Profile	
		MS-user	MS
A.1.12.1/2	auto-modify	m	m

A.2.14.9 AutoModifyRegistrationParameter

Ref	Element	Profile	
		MS-user	MS
A.1.12.3/2	filter	m	

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A.2.14.10 General attributes: support in Stored-message subordinate entry-classes

Ref	Element	Profile	
		MS-user	MS
A.1.13.1/32	message-group-name	m	m

A.2.15 Trash (TRASH)

A.2.15.1 Message Retrieval Service Element 94 (MRSE-94)

Ref	Element	Profile	
		MS-user	MS
A.1.2.3/7	Modify	m	m

A.2.15.2 MSBind

Ref	Element	Profile	
		MS-user	MS
A.1.3.1/1.5	ms-configuration-request	m	
A.1.3.1/2.3	available-attribute-types	m	
A.1.3.1/2.8	bind-result-extensions	m	m
A.1.3.1/2.8.1	modify-capability	m	m

A.2.15.3 Delete

Ref	Element	Profile	
		MS-user	MS
A.1.3.9/1.2.1	selector	m	

A.2.15.4 Modify

Ref	Element	Profile	
		MS-user	MS
A.1.3.12/1.2.1	selector	m	
A.1.3.12/1.2.2	specific-entries	m	

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A.2.15.5 Common data types

Ref	Element	Profile	
		MS-user	MS
A.1.8/4.5	present	m	
A.1.8/7.3	filter	m	
A.1.8/19.2.1	add-attribute	m	
A.1.8/19.2.2	remove-attribute	m	

A.2.15.6 General attributes: support in Stored-message subordinate entry-classes

Ref	Element	Profile	
		MS-user	MS
A.1.13.1/29	marked-for-deletion	m	m

A.2.16 Auto-Deletion (AD)

A.2.16.1 Message Retrieval Service Element 94 (MRSE-94)

Ref	Element	Profile	
		MS-user	MS
A.1.2.3/5	Register-MS	m	
A.1.2.3/7	Modify	m	m

A.2.16.2 MSBind

Ref	Element	Profile	
		MS-user	MS
A.1.3.1/1.5	ms-configuration-request	m	
A.1.3.1/2.2	available-auto-actions	m	m
A.1.3.1/2.8	bind-result-extensions	m	m
A.1.3.1/2.8.1	modify-capability	m	m
A.1.3.1/2.8.2	modify-retrieval-status-capability		c[1]
A.1.3.1/2.10	auto-action-error-indication	m	m

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Ref	Element	Profile	
		MS-user	MS
A.1.3.1/2.10.1	indication-only	–	–
A.1.3.1/2.10.2	auto-action-log-entry	m	m
1 shall be supported if Auto-Correlation is supported (to enable unseen correlated reports to be auto-deleted)			

A.2.16.3 MSMessageSubmission

Ref	Element	Profile	
		MS-user	MS
A.1.3.2/1.3	submission-options	o	m
A.1.3.2/1.3.2	disable-auto-modify	o	m

A.2.16.4 MSProbeSubmission

Ref	Element	Profile	
		MS-user	MS
A.1.3.3/1.2	submission-options	o	m
A.1.3.3/1.2.2	disable-auto-modify	o	m

A.2.16.5 Register-MS

Ref	Element	Profile	
		MS-user	MS
A.1.3.10/1.1	auto-action-registrations	m	m
A.1.3.10/1.2	auto-action-deregistrations	m	m
A.1.3.10/1.2.2	registration-identifier	m	
A.1.3.10/1.8.2	disable-auto-modify	m	
A.1.3.10/1.10	registration-status-request	m	m
A.1.3.10/2.2	registered-information	m	m
A.1.3.10/2.2.1	auto-action-registrations	m	m

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A.2.16.6 Modify

Ref	Element	Profile	
		MS-user	MS
A.1.3.12/1.2.2	specific-entries	m	

A.2.16.7 Common data types

Ref	Element	Profile	
		MS-user	MS
A.1.8/5.8	auto-action-log	m	m
A.1.8/15.2	registration-identifier	m	
A.1.8/15.3	registration-parameter	m	m
A.1.8/16.4.2	disable-auto-modify	m	
A.1.8/17.2	disable-auto-modify	m	
A.1.8/19.2.1	add-attribute	m	
A.1.8/19.2.2	remove-attribute	m	

A.2.16.8 Support of auto-actions

Ref	Element	Profile	
		MS-user	MS
A.1.12.1/2	auto-modify	m	m
A.1.12.1/4	auto-delete	m	m

A.2.16.9 AutoModifyRegistrationParameter

Ref	Element	Profile	
		MS-user	MS
A.1.12.3/2	filter	m	

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A.2.16.10 General attributes: support in Stored-message subordinate entry-classes

Ref	Element	Profile	
		MS-user	MS
A.1.13.1/74	storage-period	m	m
A.1.13.1/75	storage-time	m	m

A.2.17 Auto-Correlation (AC)

A.2.17.1 MSBind

Ref	Element	Profile	
		MS-user	MS
A.1.3.1/1.5	ms-configuration-request	m	
A.1.3.1/2.2	available-auto-actions	m	m
A.1.3.1/2.3	available-attribute-types	m	
A.1.3.1/2.6	entry-classes-supported	m	
A.1.3.1/2.8	bind-result-extensions		c[1]
A.1.3.1/2.8.1	modify-capability		c[1]
A.1.3.1/2.8.2	modify-retrieval-status-capability		c[1]
1 shall be supported if Auto-Deletion is supported (to enable unseen correlated reports to be auto-deleted)			

A.2.17.2 MSMessageSubmission

Ref	Element	Profile	
		MS-user	MS
A.1.3.2/1.3	submission-options	o	m
A.1.3.2/1.3.1	object-entry-class	m	m
A.1.3.2/2.1.5	ms-message-result	m	m
A.1.3.2/2.1.5.1	created-entry	m	m

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A.2.17.3 MSProbeSubmission

Ref	Element	Profile	
		MS-user	MS
A.1.3.3/1.2	submission-options	o	m
A.1.3.3/1.2.1	object-entry-class	m	m
A.1.3.3/2.5	ms-probe-result	m	m
A.1.3.3/2.5.1	created-entry	m	m

A.2.17.4 Summarize

Ref	Element	Profile	
		MS-user	MS
A.1.3.6/1.1	entry-class	m	

A.2.17.5 List

Ref	Element	Profile	
		MS-user	MS
A.1.3.7/1.1	entry-class	m	

A.2.17.6 Fetch

Ref	Element	Profile	
		MS-user	MS
A.1.3.8/1.1	entry-class	m	

A.2.17.7 Delete

Ref	Element	Profile	
		MS-user	MS
A.1.3.9/1.1	entry-class	m	

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A.2.17.8 Register-MS

Ref	Element	Profile	
		MS-user	MS
A.1.3.10/1.8	submission-defaults	o	m
A.1.3.10/1.8.1	object-entry-class	m	m
A.1.3.10/1.10	registration-status-request	m	m
A.1.3.10/2.2	registered-information	m	m
A.1.3.10/2.2.1	auto-action-registrations[1]	m	m
1 although the auto-correlate auto-action is only available on subscription and not on registration per se, it shall be listed among the registered auto-actions.			

A.2.17.9 Modify

Ref	Element	Profile	
		MS-user	MS
A.1.3.11/1.1	entry-class	m	

A.2.17.10 Common data types

Ref	Element	Profile	
		MS-user	MS
A.1.8/5.2	submission	c[1]	m
A.1.8/5.6	submission-log	c[1]	m
A.1.8/16.4.1	object-entry-class	m	m
A.1.8/17.1	object-entry-class	m	m
1 at least one of those shall be supported			

A.2.17.11 Support of auto-actions

Ref	Element	Profile	
		MS-user	MS
A.1.12.1/3	auto-correlate-reports	m	m

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A.2.17.12 AutoModifyRegistrationParameter

Ref	Element	Profile	
		MS-user	MS
A.1.12.3/1	entry-class	m	

A.2.17.13 General attributes: support in Stored-message subordinate entry-classes

Ref	Element	Profile	
		MS-user	MS
A.1.13.1/1	AC-correlated-report-list	m	m
A.1.13.1/2	AC-report-subject-entry	m	m
A.1.13.1/3	AC-report-summary	m	m
A.1.13.1/4	AC-uncorrelated-report-list	m	m

A.2.17.14 Support in Message-log subordinate entry-classes

Ref	Element	Profile	
		MS-user	MS
A.1.13.1/1	AC-correlated-report-list	c[1]	c[1]
A.1.13.1/2	AC-report-subject-entry	o	o
A.1.13.1/3	AC-report-summary	c[1]	c[1]
A.1.13.1/4	AC-uncorrelated-report-list	c[1]	c[1]

1 if correlation is made via the Submission-log entry-class then m else o

A.2.17.15 General matching-rules

Ref	Matching Rule	Profile	
		MS-user	MS
A.1.14/19	mTSIdentifierMatch		m

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A.2.18 Logging (LOG)

A.2.18.1 MSBind

Ref	Element	Profile	
		MS-user	MS
A.1.3.1/1.5	ms-configuration-request	m	
A.1.3.1/2.6	entry-classes-supported	m	m

A.2.18.2 MSMessageSubmission

Ref	Element	Profile	
		MS-user	MS
A.1.3.2/1.3.1	object-entry-class	m	m
A.1.3.2/2.1.5	ms-message-result	m	m
A.1.3.2/2.1.5.1	created-entry	m	m

A.2.18.3 MSProbeSubmission

Ref	Element	Profile	
		MS-user	MS
A.1.3.3/1.2.1	object-entry-class	m	m
A.1.3.3/2.5	ms-probe-result	m	m
A.1.3.3/2.5.1	created-entry	m	m

A.2.18.4 Summarize

Ref	Element	Profile	
		MS-user	MS
A.1.3.6/1.1	entry-class	m	

A.2.18.5 List

Ref	Element	Profile	
		MS-user	MS
A.1.3.7/1.1	entry-class	m	

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A.2.18.6 Fetch

Ref	Element	Profile	
		MS-user	MS
A.1.3.8/1.1	entry-class	m	

A.2.18.7 Delete

Ref	Element	Profile	
		MS-user	MS
A.1.3.9/1.1	entry-class	m	

A.2.18.8 Register-MS

Ref	Element	Profile	
		MS-user	MS
A.1.3.10/1.8.1	object-entry-class	m	m

A.2.18.9 Modify

Ref	Element	Profile	
		MS-user	MS
A.1.3.11/1.1	entry-class	m	

A.2.18.10 Common data types

Ref	Element	Profile	
		MS-user	MS
A.1.8/5.5	delivery-log	m	m
A.1.8/5.6	submission-log	m	m
A.1.8/5.7	message-log	m	m
A.1.8/16.4.1	object-entry-class	m	m
A.1.8/17.1	object-entry-class	m	m

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A.2.18.11 AutoModifyRegistrationParameter

Ref	Element	Profile	
		MS-user	MS
A.1.12.1/1	entry-class	m	

A.2.19 Storage of Draft Messages (SDM)

A.2.19.1 MSBind

Ref	Element	Profile	
		MS-user	MS
A.1.3.1/1.5	ms-configuration-request	m	
A.1.3.1/2.6	entry-classes-supported	m	m

A.2.19.2 MSMessageSubmission

Ref	Element	Profile	
		MS-user	MS
A.1.3.2/1.3	submission-options	m	m
A.1.3.2/1.3.1	object-entry-class	m	m
A.1.3.2/1.3.4	ms-submission-extensions		m
A.1.3.2/1.3.4.1	originator-token		c[1]
A.1.3.2/1.3.4.2	originator-certificate-selectors-override		c[2]
A.1.3.2/2.2	store-draft-result	m	m

1 shall be supported if the message-token attribute is supported

2 shall be supported if the certificate-selectors attribute is supported

A.2.19.3 Summarize

Ref	Element	Profile	
		MS-user	MS
A.1.3.6/1.1	entry-class	m	

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A.2.19.4 List

Ref	Element	Profile	
		MS-user	MS
A.1.3.7/1.1	entry-class	m	

A.2.19.5 Fetch

Ref	Element	Profile	
		MS-user	MS
A.1.3.8/1.1	entry-class	m	

A.2.19.6 Delete

Ref	Element	Profile	
		MS-user	MS
A.1.3.9/1.1	entry-class	m	

A.2.19.7 Register-MS

Ref	Element	Profile	
		MS-user	MS
A.1.3.10/1.8.1	object-entry-class	m	m

A.2.19.8 Modify

Ref	Element	Profile	
		MS-user	MS
A.1.3.11/1.1	entry-class	m	

A.2.19.9 Common data types

Ref	Element	Profile	
		MS-user	MS
A.1.8/5.3	draft	m	m
A.1.8/16.4.1	object-entry-class	m	m

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Ref	Element	Profile	
		MS-user	MS
A.1.8/17.1	object-entry-class	m	m

A.2.19.10 AutoModifyRegistrationParameter

Ref	Element	Profile	
		MS-user	MS
A.1.12.1/1	entry-class	m	

A.2.20 ORAddress Matching (ORAM)

A.2.20.1 Common data types

Ref	Element	Profile	
		MS-user	MS
A.1.8/4.7	other-match	m	m
A.1.8/7.3	filter	m	

A.2.20.2 General matching-rules

Ref	Element	Profile	
		MS-user	MS
A.1.14/20	oRAddressElementsMatch	m	m
A.1.14/21	oRAddressMatch	m	m
A.1.14/22	oRAddressSubstringElementsMatch	m	m
A.1.14/27	redirectionOrDLExpansionElementsMatch	c[1]	c[1]
A.1.14/28	redirectionOrDLExpansionMatch	c[1]	c[1]
A.1.14/29	redirectionOrDLExpansionSingleElementMatch	c[1]	c[1]
A.1.14/30	redirectionOrDLExpansionSubstringElementsMatch	c[1]	c[1]

1 if the DL FG or the RED FG is supported then m else o.
Matching is required only on the OR-address component of the OR-name but not required on the Directory Name component.

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A.2.21 ORName Matching (ORNM)

A.2.21.1 Common data types

Ref	Element	Profile	
		MS-user	MS
A.1.8/4.7	other-match	m	m
A.1.8/7.3	filter	m	

A.2.21.2 General matching-rules

Ref	Element	Profile	
		MS-user	MS
A.1.14/23	oRNameElementsMatch	m	m
A.1.14/24	oRNameMatch	m	m
A.1.14/25	oRNameSingleElementMatch	m	m
A.1.14/26	oRNameSubstringElementsMatch	m	m
A.1.14/27	redirectionOrDLExpansionElementsMatch	c[1]	c[1]
A.1.14/28	redirectionOrDLExpansionMatch	c[1]	c[1]
A.1.14/29	redirectionOrDLExpansionSingleElementMatch	c[1]	c[1]
A.1.14/30	redirectionOrDLExpansionSubstringElementsMatch	c[1]	c[1]
1 if the DL FG or the RED FG is supported then m else o.			

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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 on retrieval (see subclause 6.1 of ISO/IEC ISP 10611-1).

If support on retrieval is claimed, then support of MS attributes may also be claimed by so indicating (Y or ✓) in the ”Supported Attributes” column. A claim of support of MS attributes means that any mandatory requirements in the relevant content type-specific base standards for support of MS attributes are met.

Ref	Content Type	Supported		Supported	Comments
		Submission	Retrieval	Attributes	
1	built-in			–	
1.1	unidentified (0)			–	
1.2	interpersonal-messaging (2)				see notes
1.3	interpersonal-messaging (22)				see notes
1.4	(EDI messaging) (35)				
2	extended (specify)				

NOTES

1 The IPM Subject attribute shall be supported, in addition to the IPM specific base standard support requirements of MS attributes.

2 A system which only supports content type interpersonal-messaging(2) without interpersonal-messaging(22) and which makes use of a MS is not a scenario described in the Base Standard, and shall be avoided.

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 on retrieval (see subclause 6.1 of ISO/IEC ISP 10611-1).

Ref	Encoded Information Type	Supported		Comments
		Submission	Retrieval	
1	built-in			
1.1	undefined (0)			
1.2	ia5-text (2)			
1.3	g3-facsimile (3)			
1.4	g4-class-1 (4)			
1.5	teletex (5)			

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Ref	Encoded Information Type	Supported		Comments
		Submission	Retrieval	
1.6	videotex (6)			
1.7	mixed-mode (9)			
1.8	other (specify)			
2	extended (specify)			

A.3.3 Support of additional extensions

The following table shall be completed to indicate which extensions 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.

Ref	Extension identifier	Comments

A.3.4 Support of filter

The following table shall be completed to indicate any constraints on the support of filter.

Ref	Constraint	Value	Comments
1	Maximum number of levels of recursion/nesting of filter supported		
2	Maximum number of elements that can be logically combined at any one level		

A.3.5 Implementation constraints

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

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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 Support of attributes by the MS-user

The following tables shall be completed for the MS-user to indicate, for each supported MS attribute, all the operations, arguments, results and filter items for which the attribute is supported.

A.3.6.1 Support in the Stored-message subordinate entry-classes

Ref	Attribute	Comments
1	AC-correlated-report-list	
2	AC-report-subject-entry	
3	AC-report-summary	
4	AC-uncorrelated-report-list	
5	certificate-selectors	
6	child-sequence-numbers	
7	content	
8	content-confidentiality-algorithm-identifier	
9	content-correlator	
10	content-identifier	
11	content-integrity-check	
12	content-length	
13	content-returned	

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Ref	Attribute	Comments
14	content-type	
15	conversion-with-loss-prohibited	
16	converted-EITs	
17	creation-time	
18	deferred-delivery-cancellation-time	
19	deferred-delivery-time	
20	delivered-EITs	
21	delivery-flags	
22	dl-exempted-recipients	
23	dl-expansion-history	
24	dl-expansion-prohibited	
25	entry-type	
26	internal-trace-information	
27	latest-delivery-time	
28	locally-originated	
29	marked-for-deletion	
30	message-delivery-envelope	
31	message-delivery-time	
32	message-group-name	
33	message-identifier	
34	message-notes	
35	message-origin-authentication-check	
36	message-security-label	
37	message-submission-envelope	
38	message-submission-time	
39	message-token	
40	ms-originated	

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Ref	Attribute	Comments
41	ms-submission-error	
42	multiple-originator-certificates	
43	original-EITs	
44	originally-intended-recipient-name	
45	originating-MTA-certificate	
46	originating-MTA-certificate-selector	
47	originator-certificate	
48	originator-name	
49	originator-report-request	
50	originator-return-address	
51	other-recipient-names	
52	parent-sequence-number	
53	per-message-indicators	
54	per-recipient-message-submission-fields	
55	per-recipient-probe-submission-fields	
56	per-recipient-report-delivery-fields	
57	priority	
58	probe-origin-authentication-check	
59	probe-submission-envelope	
60	proof-of-delivery-request	
61	proof-of-submission	
62	recipient-certificate	
63	recipient-names	
64	recipient-reassignment-prohibited	
65	redirection-history	
66	report-delivery-envelope	

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Ref	Attribute	Comments
67	report-origin-authentication-check	
68	reporting-DL-name	
69	reporting-MTA-certificate	
70	retrieval-status	
71	security-classification	
72	sequence-number	
73	signature-verification-status	
74	storage-period	
75	storage-time	
76	subject-submission-identifier	
77	this-recipient-name	
78	trace-information	

A.3.6.2 Support in the Message-log subordinate entry-classes

Ref	Attribute	Comments
1	AC-correlated-report-list	
2	AC-report-subject-entry	
3	AC-report-summary	
4	AC-uncorrelated-report-list	
5	certificate-selectors	
6	child-sequence-numbers	
7	content-confidentiality-algorithm-identifier	
8	content-correlator	
9	content-identifier	
10	content-integrity-check	
11	content-length	
12	content-returned	

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Ref	Attribute	Comments
13	content-type	
14	conversion-with-loss-prohibited	
15	converted-EITs	
16	creation-time	
17	deferred-delivery-cancellation-time	
18	deferred-delivery-time	
19	deletion-time	
20	delivered-EITs	
21	delivery-flags	
22	dl-exempted-recipients	
23	dl-expansion-history	
24	dl-expansion-prohibited	
25	entry-type	
26	internal-trace-information	
27	latest-delivery-time	
28	locally-originated	
29	marked-for-deletion	
30	message-delivery-time	
31	message-group-name	
32	message -identifier	
33	message-notes	
34	message-origin-authentication-check	
35	message-security-label	
36	message-submission-time	
37	message-token	
38	ms-originated	
39	ms-submission-error	

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Ref	Attribute	Comments
40	multiple-originator-certificates	
41	original-EITs	
42	originally-intended-recipient-name	
43	originating-MTA-certificate	
44	originating-MTA-certificate-selector	
45	originator-certificate	
46	originator-name	
47	originator-report-request	
48	originator-return-address	
49	other-recipient-names	
50	parent-sequence-number	
51	per-message-indicators	
52	per-recipient-message-submission-fields	
53	per-recipient-probe-submission-fields	
54	per-recipient-report-delivery-fields	
55	priority	
56	probe-origin-authentication-check	
57	probe-submission-envelope	
58	proof-of-delivery-request	
59	proof-of-submission	
60	recipient-certificate	
61	recipient-names	
62	recipient-reassignment-prohibited	
63	redirection-history	
64	report-origin-authentication-check	
65	reporting-DL-name	

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Ref	Attribute	Comments
66	reporting-MTA-certificate	
67	retrieval-status	
68	security-classification	
69	sequence-number	
70	signature-verification-status	
71	storage-period	
72	storage-time	
73	subject-submission-identifier	
74	this-recipient-name	
75	trace-information	

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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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