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DES TÉLÉCOMMUNICATIONS
DE L'UIT

X.483

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SÉRIE X: RÉSEAUX POUR DONNÉES ET
COMMUNICATION ENTRE SYSTÈMES OUVERTS

Systèmes de messagerie

**Système de messagerie – Formulaire de
déclaration de conformité d'une implémentation
de protocole P3**

Recommandation UIT-T X.483

(Antérieurement Recommandation du CCITT)

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RECOMMANDATION UIT-T X.483

SYSTÈMES DE MESSAGERIE – FORMULAIRE DE DÉCLARATION DE CONFORMITÉ D'UNE IMPLÉMENTATION DE PROTOCOLE P3

Résumé

La présente Recommandation définit le formulaire de déclaration de conformité d'implémentation de protocole (PICS, *protocol implementation conformance statement*) pour le protocole P3 des systèmes de messagerie (MHS, *message handling systems*), tel qu'il est spécifié dans la Rec. UIT-T X.411 | ISO/CEI 10021-4 et dans la Rec. UIT-T X.419 | ISO/CEI 10021-6. Ce formulaire PICS présente, sous forme de tableau, les éléments obligatoires et facultatifs du protocole P3.

Source

La Recommandation UIT-T X.483, révisée par la Commission d'études 7 de l'UIT-T (1997-2000), a été approuvée le 25 septembre 1998 selon la procédure définie dans la Résolution n° 1 de la CMNT.

Suite à la décision de la Commission d'études 7 (18 juin 1999) de publier une nouvelle édition des Recommandations relatives aux systèmes de messagerie, il a été décidé, en accord avec le Directeur du TSB, de publier également les Recommandations X.481, X.482, X.483, X.484 et X.486 avec la date de 1999.

AVANT-PROPOS

L'UIT (Union internationale des télécommunications) est une institution spécialisée des Nations Unies dans le domaine des télécommunications. L'UIT-T (Secteur de la normalisation des télécommunications) est un organe permanent de l'UIT. Il est chargé de l'étude des questions techniques, d'exploitation et de tarification, et émet à ce sujet des Recommandations en vue de la normalisation des télécommunications à l'échelle mondiale.

La Conférence mondiale de normalisation des télécommunications (CMNT), qui se réunit tous les quatre ans, détermine les thèmes d'études à traiter par les Commissions d'études de l'UIT-T, lesquelles élaborent en retour des Recommandations sur ces thèmes.

L'approbation des Recommandations par les Membres de l'UIT-T s'effectue selon la procédure définie dans la Résolution n° 1 de la CMNT.

Dans certains secteurs des technologies de l'information qui correspondent à la sphère de compétence de l'UIT-T, les normes nécessaires se préparent en collaboration avec l'ISO et la CEI.

NOTE

Dans la présente Recommandation, le terme *exploitation reconnue (ER)* désigne tout particulier, toute entreprise, toute société ou tout organisme public qui exploite un service de correspondance publique. Les termes *Administration*, *ER* et *correspondance publique* sont définis dans la *Constitution de l'UIT (Genève, 1992)*.

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A la date d'approbation de la présente Recommandation, l'UIT n'avait pas été avisée de l'existence d'une propriété intellectuelle protégée par des brevets à acquérir pour mettre en œuvre la présente Recommandation. Toutefois, comme il ne s'agit peut-être pas de renseignements les plus récents, il est vivement recommandé aux responsables de la mise en œuvre de consulter la base de données des brevets du TSB.

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Introduction

La présente Recommandation fait partie d'une série de Recommandations définissant la messagerie dans un environnement de systèmes répartis ouverts.

La messagerie permet l'échange de messages entre usagers en mode enregistrement et retransmission. Un message déposé par un usager (l'expéditeur) est transféré par le système de transfert de message (MTS, *message transfer system*) pour être remis à un ou plusieurs usagers (les destinataires). Le MTS comprend un certain nombre d'agents de transfert de messages (MTA, *message transfer agent*) qui transfèrent les messages et les remettent à leurs destinataires.

Pour évaluer les capacités d'une implémentation de protocole donnée, il est nécessaire de disposer d'une déclaration précisant les capacités et les options qui ont été incluses pour un protocole OSI donné. Cette déclaration est appelée déclaration de conformité d'implémentation de protocole (PICS).

SYSTÈMES DE MESSAGERIE – FORMULAIRE DE DÉCLARATION DE CONFORMITÉ D'UNE IMPLÉMENTATION DE PROTOCOLE P3¹

1 Domaine d'application

La présente Recommandation définit le formulaire de déclaration de conformité d'implémentation de protocole (PICS) pour le protocole P3, tel qu'il est spécifié dans la Rec. UIT-T X.411 | ISO/CEI 10021-4 et dans la Rec. UIT-T X.419 | ISO/CEI 10021-6. Le formulaire de déclaration PICS présente, sous forme de tableau, les éléments obligatoires et facultatifs du protocole P3.

Ce formulaire de déclaration PICS est fondé sur les directives pertinentes applicables aux formulaires de déclaration PICS, données dans la Rec. UIT-T X.296 | ISO/CEI 9646-7.

2 Références normatives

La présente Recommandation se réfère à certaines dispositions des Recommandations UIT-T et textes suivants qui de ce fait en sont partie intégrante. Les versions indiquées étaient en vigueur au moment de la publication de la présente Recommandation. Toute Recommandation ou tout texte étant sujet à révision, les utilisateurs de la présente Recommandation sont invités à se reporter, si possible, aux versions les plus récentes des références normatives suivantes. La liste des Recommandations de l'UIT-T en vigueur est régulièrement publiée.

2.1 Recommandations | Normes internationales identiques

- Recommandation UIT-T X.402 (1999) | ISO/CEI 10021-2:1999, *Technologies de l'information – Systèmes de messagerie: architecture globale*.
- Recommandation UIT-T X.411 (1999) | ISO/CEI 10021-4:1999, *Technologies de l'information – Systèmes de messagerie: système de transfert de messages: définition et procédures du service abstrait*.
- Recommandation UIT-T X.419 (1999) | ISO/CEI 10021-6:1999, *Technologies de l'information – Systèmes de messagerie: spécifications des protocoles*.

2.2 Paires de Recommandations | Normes internationales équivalentes par leur contenu technique

- Recommandation UIT-T X.290 (1995), *Cadre général et méthodologie des tests de conformité d'interconnexion des systèmes ouverts pour les Recommandations sur les protocoles pour les applications de l'UIT-T – Concepts généraux*.
ISO/CEI 9646-1:1994, *Technologies de l'information – Interconnexion de systèmes ouverts (OSI) – Cadre général et méthodologie des tests de conformité – Partie 1: Concepts généraux*.
- Recommandation UIT-T X.296 (1995), *Cadre général et méthodologie des tests de conformité OSI pour les Recommandations sur les protocoles pour les applications de l'UIT-T – Déclarations de conformité d'instance*.
ISO/CEI 9646-7:1995, *Technologies de l'information – Interconnexion de systèmes ouverts (OSI) – Essais de conformité – Méthodologie générale et procédure – Partie 7: Déclarations de conformité des mises en œuvre*.

3 Définitions

Les termes employés dans la présente Recommandation sont définis dans les Recommandations | Normes internationales citées en référence.

¹ L'Annexe A de la présente Recommandation est alignée, au point de vue technique, avec l'Annexe A de l'ISO/CEI ISP 10611-4, *Technologies de l'information – Profils normalisés internationaux AMH1n – Systèmes de messagerie – Messagerie commune – Partie 4: AMH12 et AMH14 – Accès à MTS (P3) et accès à MTS 94 (P3)*.

4 Abréviations

La présente Recommandation utilise les abréviations suivantes:

ISP	profil normalisé international (<i>international standardized profile</i>)
MHS	systèmes de messagerie (<i>message handling systems</i>)
MS	mémoire de messages (<i>message store</i>)
MTA	agent de transfert de messages (<i>message transfer agent</i>)
OSI	interconnexion des systèmes ouverts (<i>open systems interconnection</i>)
PDU	unité de données protocolaires (<i>protocol data unit</i>)
PICS	déclaration de conformité d'implémentation de protocole (<i>protocol implementation conformance statement</i>)
UA	agent d'utilisateur (<i>user agent</i>)

5 Conformité

Un formulaire de déclaration PICS conforme doit être équivalent, sur le plan technique, au texte du formulaire de déclaration PICS défini dans la présente Recommandation et conserver la numérotation et l'ordre des rubriques du formulaire PICS décrit dans la présente Recommandation.

Un formulaire PICS conforme à la présente Recommandation doit:

- a) décrire une implémentation de protocole conforme aux dispositions de la Rec. UIT-T X.411 | ISO/CEI 10021-4 et de la Rec. UIT-T X.419 | ISO/CEI 10021-6;
- b) être un formulaire de déclaration PICS conforme, rempli conformément aux instructions données à cet effet dans l'Annexe A;
- c) inclure les renseignements requis pour identifier sans équivoque le fournisseur et l'implémentation de protocole.

Annexe A²

Formulaire PICS pour le protocole P3 d'accès au système de transfert de messages

(Cette annexe fait partie intégrante de la présente Recommandation)

Contents of the PICS proforma

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Subclause A.1 specifies the basic requirements for conformance to this Recommendation. Subclause A.2 is allocated but not used, it is present to keep the numbering alignment with the corresponding ISP. Subclause A.3 allows additional information to be provided for certain aspects of an implementation where no specific requirements are included in the base specifications. All subclauses shall be completed as appropriate.

NOTE – The numbering of subclauses and items in this annex is identical to that in ISO/IEC ISP 10611-4, "Information technology – International Standardized Profiles AMH1n – Message Handling Systems – Common Messaging – Part 4: AMH12 and AMH14 – MTS Access (P3) and MTS 94 Access (P3)".

A.0 Instructions and identification

A.0.1 Instructions

A.0.1.1 Purpose of the proforma

The purpose of the PICS proforma is to provide suppliers of implementations of the P3 protocol with a consistent means of stating which proforma has been implemented.

² Droits de reproduction du formulaire PICS

Les utilisateurs de la présente Recommandation sont autorisés à reproduire le formulaire PICS de la présente annexe pour utiliser celui-ci conformément à son objet. Ils sont également autorisés à publier le formulaire PICS une fois celui-ci complété.

The proforma is in the form of a questionnaire and consists of a set of items. An item is provided for each capability for which no implementation choice is allowed. Items are also provided for mandatory capabilities for which no implementation choice is allowed. Each item includes an item number, an item description, a status value specifying the support requirement, and room for a support answer to be provided by the supplier.

A.0.1.2 Item numbering

Each line in the PICS proforma which requires implementation detail to be entered is given a number in the first column. The item number column provides a means of uniquely referencing each possible answer within the PICS proforma.

A.0.1.3 Base column

In each table, the "Base" column reflects the level of support required for conformance to the base standard.

The generic term "MTS-user" is used in the tables where the distinction between different types of MTS-user is not significant. Where a column is headed "UA", then an MS is only required to be able to pass through such elements transparently between a UA and the MTA.

The following classifications are used in this PICS to specify static conformance requirements – i.e. capability.

NOTE – The Profile column is used for functional profiles and uses the same classification.

In the case of 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.

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

conditional support (c): The element shall be supported under the conditions specified in this Recommendation. 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 Recommendation – i.e. it will not be the subject of a conformance test.

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

A.0.1.4 Support column

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

A.0.1.5 References column

The "References" 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).

A reference to a specific item is specified by the following sequence:

- a) if the reference is to an item in another document, then the reference starts with unambiguous identifier for that document;
- b) the number of the subclause enclosing the table, or the number of the table if they are numbered;
- c) a solidus character "/";
- d) the item number, to identify the row in which the answer appears.

A.0.2 Identification of PICS proforma corrigenda

The supplier of the PICS proforma shall identify any corrigenda that have been applied (i.e. Technical Corrigendum or equivalent) to the published proforma. Suppliers of the proforma should modify the proforma, or attach relevant additional pages in order to apply the corrigenda and then record the application of the corrigenda in the table below.

Corrigenda to ITU-T Recommendation X.483

Cor.:
Cor.:
Cor.:
Cor.:
Implementors' Guide version:

A.0.3 Identification of the implementation

A.0.3.1 Date of statement

Ref.	Question	Response
1	Date of statement (YYYY-MM-DD)	

A.0.3.2 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.0.3.3 Identification of supplier

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

A.0.3.4 Identification of protocol

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

A.0.3.5 Type of implementation

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

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

A.0.3.6 Global statement of conformance

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

A.1 Basic requirements

A.1.1 Supported application contexts

Ref.	Application Context	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	mts-access-88	o		o ⁴			
2	mts-forced-access-88	o		o ⁴			
3	mts-reliable-access-88	o		o ⁵			
4	mts-forced-reliable-access-88	o		o ⁵			
5	mts-access-94	o		o ⁴			
6	mts-forced-access-94	o		o ⁴			
7	mts-reliable-access-94	o		o ⁵			
8	mts-forced-reliable-access-94	o		o ⁵			
4	If either of mts-access or mts-forced-access application contexts is supported, then both of them for that "year" shall be supported.						
5	If either of mts-reliable-access or mts-forced-reliable-access application contexts is supported, then all four contexts for that "year" shall be supported.						

A.1.2 Supported operations

A.1.2.1 Bind and Unbind

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

A.1.2.2 Message Submission Service Element (MSSE)

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

A.1.2.3 Message Delivery Service Element (MDSE)

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

A.1.2.4 Message Administration Service Element (MASE)

Ref.	Operation	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	Register	o		o			see A.1.3.9
2	ChangeCredentials (MTA to UA)	o		o			see A.1.3.10
3	ChangeCredentials (UA to MTA)	o		o			see A.1.3.10

NOTE – For a UA or MTA, some or all of the services and functionality supported by these operations may be implemented by other means as a local matter.

A.1.3 Operation arguments/results

A.1.3.1 MTSBind

Ref.	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	initiator-name	m		m			
1.1.1	user-agent	c ³		c ³			see A.1.10.2
1.1.2	mTA	c ⁴		c ⁴			
1.1.3	message-store	c ⁵		c ³			see A.1.10.2
1.2	messages-waiting	o		o			
1.3	initiator-credentials	m		m			
1.3.1	simple	m		m			
1.3.1.1	octet-string	o		o			
1.3.1.2	ia5-string	o		o			
1.3.2	strong	o		o			
1.3.2.1	bind-token	m		m			see A.1.8/7
1.3.2.2	certificate	o		o			see A.1.8/8
1.3.2.3	certificate-selector	o		o			see A.1.8/10

Ref.	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1.3.3	protected	c ⁸		c ⁸			
1.3.3.1	signature	m		m			
1.3.3.1.1	password	o		o			
1.3.3.1.2	time1	o		o			
1.3.3.1.3	time2	o		o			
1.3.3.1.4	random1	o		o			
1.3.3.1.5	random2	o		o			
1.3.3.2	time1	o		o			
1.3.3.3	time2	o		o			
1.3.3.4	random1	o		o			
1.3.3.5	random2	o		o			
1.4	security-context	o		o			see A.1.9/3
1.5	extensions	c ⁸		c ⁸			
2	RESULT						
2.1	responder-name	m		m			
2.1.1	user-agent	c ⁴		c ⁴			see A.1.10.2
2.1.2	mTA	c ³		c ³			
2.1.3	message-store	c ⁶		c ⁴			see A.1.10.2
2.2	messages-waiting	o		o			
2.3	responder-credentials	m		m			
2.3.1	simple	m		m			
2.3.1.1	octet-string	o		o			
2.3.1.2	ia5-string	o		o			
2.3.2	strong	o		o			
2.3.2.1	bind-token	m		m			
2.3.2.1.1	signature-algorithm-identifier	m		m			
2.3.2.1.2	name	m		m			
2.3.2.1.3	time	m		m			
2.3.2.1.4	signed-data	o		o			
2.3.2.1.5	encryption-algorithm-identifier	o		o			
2.3.2.1.6	encrypted-data	o		o			
2.3.2.2	certificate	o		o			see A.1.8/8
2.3.2.3	certificate-selector	o		o			see A.1.8/10
2.3.3	protected	c ⁸		c ⁸			
2.3.3.1	signature	m		m			
2.3.3.1.1	password	o		o			

Ref.	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
2.3.3.1.2	time1	o		o			
2.3.3.1.3	time2	o		o			
2.3.3.1.4	random1	o		o			
2.3.3.1.5	random2	o		o			
2.3.3.2	time1	o		o			
2.3.3.3	time2	o		o			
2.3.3.4	random1	o		o			
2.3.3.5	random2	o		o			
2.4	extensions	c ⁸		c ⁸			
3 if the MTS-user is the initiator then m else – 4 if the MTA is the initiator then m else – 5 if the MTS-user is a MS and is the initiator then m else – 6 if the MTS-user is a MS and the MTA is the initiator then m else – 8 if any access-94 application context is supported (A.1.1 items 5, 6, 7 or 8) then o else –							

A.1.3.2 MessageSubmission

Ref.	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	envelope	m		m			see A.1.4
1.2	content	m		m			
2	RESULT						
2.1	message-submission-identifier	m		m			see A.1.8/1
2.2	message-submission-time	m		m			
2.3	content-identifier	o		m			
2.4	extensions	m		m			see A.1.9/1
2.4.1	originating-MTA-certificate	o		o			see A.1.8/8
2.4.2	proof-of-submission	o		o			see A.1.9/7
2.4.3	originating-MTA-certificate-selector	o		o			see A.1.8/10
2.4.4	extensions	c ³		c ³			
3 if any access-94 application context is supported (A.1.1 items 5, 6, 7 or 8) then o else –							

A.1.3.3 ProbeSubmission

Ref.	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	envelope	m		m			see A.1.5
2	RESULT						
2.1	probe-submission-identifier	m		m			see A.1.8/1
2.2	probe-submission-time	m		m			
2.3	content-identifier	o		m			
2.4	PrivateExtensions	c ³		c ³			
3 if any access-94 application context is supported (A.1.1 items 5, 6, 7 or 8) then o else –							

A.1.3.4 CancelDeferredDelivery

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

A.1.3.5 SubmissionControl

Ref.	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	controls	m		m			
1.1.1	restrict	m		o			
1.1.2	permissible-operations	m		o			
1.1.3	permissible-maximum-content-length	m		o			
1.1.4	permissible-lowest-priority	m		o			
1.1.5	permissible-security-context	o		o			see A.1.9/3
2	RESULT						

Ref.	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
2.1	waiting	m		m			
2.1.1	waiting-operations	o		m			
2.1.2	waiting-messages	o		m			
2.1.3	waiting-content-types	o		m			
2.1.4	waiting-encoded-information-types	o		m			see A.1.8/3

A.1.3.6 MessageDelivery

Ref.	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	(envelope)	m		m			see A.1.6
1.2	content	m		m			
2	RESULT						
2.1	recipient-certificate	o		o			see A.1.8/8
2.2	proof-of-delivery	o		o			see A.1.9/6
2.3	recipient-certificate-selector	o		o			see A.1.8/10
2.4	extensions	c ¹		c ¹			
1 if any access-94 application context is supported (A.1.1 items 5, 6, 7 or 8) then o else –							

A.1.3.7 ReportDelivery

Ref.	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	(envelope)	m		m			see A.1.7
1.2	returned-content	o		o			
2	RESULT						
2.1	NULL	c ²		c ²			
2.2	extensions	c ³		c ³			
2 if any access-88 application context is supported (A.1.1 items 1, 2, 3 or 4) then m else o							
3 if any access-94 application context is supported (A.1.1 items 5, 6, 7 or 8) then o else –							

A.1.3.8 DeliveryControl

Ref.	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	controls	m		m			
1.1.1	restrict	m		m			
1.1.2	permissible-operations	o		m			
1.1.3	permissible-maximum-content-length	o		m			
1.1.4	permissible-lowest-priority	o		m			
1.1.5	permissible-content-types	o		m			
1.1.6	permissible-encoded-information-types	o		m			if conformance to AMH12 is claimed see A.1.8/3
1.1.6.1	unacceptable-eits	c ¹		c ¹			
1.1.6.2	acceptable-eits	c ¹		c ¹			
1.1.6.3	exclusively-acceptable-eits	c ¹		c ¹			
1.1.7	permissible-security-context	o		o			see A.1.9/3
1.2	extensions	c ¹		c ¹			
2	RESULT						
2.1	waiting	m		m			
2.1.1	waiting-operations	m		o			
2.1.2	waiting-messages	m		o			
2.1.3	waiting-content-types	m		o			
2.1.4	waiting-encoded-information-types	m		o			see A.1.8/3
2.2	extensions	c ¹		c ¹			
1 if any access-94 application context is supported (A.1.1 items 5, 6, 7 or 8) then o else –							

A.1.3.9 AMH12 Register

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

Ref.	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	user-name	o		o			see A.1.10.2
1.2	user-address	o		o			
1.3	deliverable-encoded-information-types	o		o			see A.1.8/3
1.4	deliverable-maximum-content-length	o		o			
1.5	default-delivery-controls	o		o			
1.5.1	restrict	o		o			
1.5.2	permissible-operations	o		o			
1.5.3	permissible-maximum-content-length	o		o			
1.5.4	permissible-lowest-priority	o		o			
1.5.5	permissible-content-types	o		o			
1.5.6	permissible-encoded-information-types	o		o			see A.1.8/3
1.6	deliverable-content-types	o		o			
1.7	labels-and-redirections	o		o			
1.7.1	user-security-label	o		o			see A.1.9/3
1.7.2	recipient-assigned-alternate-recipient	o		o			
2	RESULT						
2.1	NULL	m		m			

A.1.3.10 ChangeCredentials

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

A.1.3.11 AMH14 Register

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

Ref.	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	ARGUMENT						
1.1	user-name	o		o			see A.1.10.2
1.2	user-address	o		o			
1.3	deliverable-class	o		o			
1.3.1	content-types	o		o			
1.3.2	maximum-content-length	o		o			
1.3.3	acceptable-encoded-information-types-constraints	o		o			
1.3.3.1	unacceptable-eits	o		m			
1.3.3.2	acceptable-eits	o		m			
1.3.3.3	exclusively-acceptable-eits	o		m			
1.3.4	security-labels	o		o			
1.3.5	extensions	o		o			
1.4	default-delivery-controls	o		o			
1.4.1	permissible-operations	o		o			

Ref.	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1.4.2	permissible-maximum-content-length	o		o			
1.4.3	permissible-lowest-priority	o		o			
1.4.4	permissible-content-types	o		o			
1.4.5	permissible-encoded-information-types	o		o			
1.4.5.1	unacceptable-eits	o		o			
1.4.5.2	acceptable-eits	o		o			
1.4.5.3	exclusively-acceptable-eits	o		o			
1.5	redirections	o		o			
1.5.1	redirections-classes	o		o			
1.5.1.1	content-types	o		o			
1.5.1.2	maximum-content-length	o		o			
1.5.1.3	acceptable-encoded-information-types-constraints	o		o			
1.5.1.3.1	unacceptable-eits	o		o			
1.5.1.3.2	acceptable-eits	o		o			
1.5.1.3.3	exclusively-acceptable-eits	o		o			
1.5.1.4	security-labels	o		o			see A.1.9/3
1.5.1.5	priority	o		o			
1.5.1.6	objects	o		o			
1.5.1.6.1	messages	o		o			
1.5.1.6.2	reports	o		o			
1.5.1.6.3	both	o		o			
1.5.1.7	applies-only-to	o		o			
1.5.1.8	extensions	o		o			
1.5.2	recipient-assigned-alternate-recipient	o		o			
1.6	redirected-delivery	o		o			see A.1.8/6
1.7	retrieve-registrations	o		o			
1.7.1	standard-parameters	o		o			
1.7.1.1	user-name	o		o			
1.7.1.2	user-address	o		o			
1.7.1.3	deliverable-class	o		o			
1.7.1.4	default-delivery-controls	o		o			
1.7.1.5	redirections	o		o			

Ref.	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1.7.1.6	restricted-delivery	o		o			
1.7.2	extensions	o		o			
1.8	extensions	o		o			
2	RESULT						
2.1	empty-result	o		o			
2.2	non-empty-result	o		o			
2.2.1	registered information	o		o			
2.2.1.1	user-name	o		o			see A.1.10.2
2.2.1.2	user-address	o		o			
2.2.1.3	deliverable-class	o		o			
2.2.1.3.1	content-types	o		o			
2.2.1.3.2	maximum-content-length	o		o			
2.2.1.3.3	acceptable-encoded-information-types-constraints	o		o			
2.2.1.3.3.1	unacceptable-eits	o		o			
2.2.1.3.3.2	acceptable-eits	o		o			
2.2.1.3.3.3	exclusively-acceptable-eits	o		o			
2.2.1.3.4	security-labels	o		o			
2.2.1.3.5	extensions	o		o			
2.2.1.4	default-delivery-controls	o		o			
2.2.1.4.1	restrict	o		o			
2.2.1.4.2	permissible-operations	o		o			
2.2.1.4.3	permissible-maximum-content-length	o		o			
2.2.1.4.4	permissible-lowest-priority	o		o			
2.2.1.4.4	permissible-content-types	o		o			
2.2.1.4.6	permissible-encoded-information-types	o		o			
2.2.1.4.6.1	unacceptable-eits	o		o			
2.2.1.4.6.2	acceptable-eits	o		o			
2.2.1.4.6.3	exclusively-acceptable-eits	o		o			
2.2.1.5	redirections	o		o			
2.2.1.5.1	redirections-classes	o		o			
2.2.1.5.1.1	content-types	o		o			

Ref.	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
2.2.1.5.1.2	maximum-content-length	o		o			
2.2.1.5.1.3	acceptable-encoded-information-types-constraints	o		o			
2.2.1.5.1.3.1	unacceptable-eits	o		o			
2.2.1.5.1.3.2	acceptable-eits	o		o			
2.2.1.5.1.3.3	exclusively-acceptable-eits	o		o			
2.2.1.5.1.4	security-labels	o		o			
2.2.1.5.1.5	priority	o		o			
2.2.1.5.1.6	objects	o		o			
2.2.1.5.1.6.1	messages	o		o			
2.2.1.5.1.6.2	reports	o		o			
2.2.1.5.1.6.3	both	o		o			
2.2.1.5.1.7	applies-only-to	o		o			
2.2.1.5.1.8	extensions	o		o			
2.2.1.5.2	recipient-assigned-alternate-recipient	o		o			
2.2.1.6	redirected-delivery	o		o			see A.1.8/6
2.2.1.7	extensions	o		o			
2.2.2	extensions	o		o			

A.1.4 MessageSubmissionEnvelope

Ref.	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	originator-name	m		m			see A.1.10.2
2	original-encoded-information-types	m		m			see A.1.8/3
3	content-type	m		m			
4	content-identifier	o		m			
5	priority	m		m			
6	per-message-indicators	m		m			see A.1.8/5
7	deferred-delivery-time	o		m			
8	extensions	m		m			see A.1.9/1
8.1	recipient-reassignment-prohibited	o		o			
8.2	dl-expansion-prohibited	o		o			
8.3	conversion-with-loss-prohibited	o		o			
8.4	latest-delivery-time	o		o			

Ref.	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
8.5	originator-return-address	o		o			see A.1.10.1
8.6	originator-certificate	o		o			see A.1.8/8
8.7	content-confidentiality-algorithm-identifier	o		o			
8.8	message-origin-authentication-check	o		o			see A.1.9/2
8.9	message-security-label	o		o			see A.1.9/3
8.10	proof-of-submission-request	o		o			
8.11	content-correlator	o		m			
8.12	certificate-selectors	o		o			see A.1.9/9
8.13	multiple-originator-certificates	o		o			see A.1.9/11
8.14	dl-exempted-recipients	o		o			see A.1.10.1
8.15	PrivateExtensions	c ²		c ²			
9	per-recipient-fields	m		m			
9.1	recipient-name	m		m			see A.1.10.1
9.2	originator-report-request	m		m			
9.3	explicit-conversion	o		o			
9.4	extensions	m		m			see A.1.9/1
9.4.1	originator-requested-alternate-recipient	o		o			see A.1.10.1
9.4.2	requested-delivery-method	o		o			
9.4.3	physical-forwarding-prohibited	o		o			
9.4.4	physical-forwarding-address-request	o		o			
9.4.5	physical-delivery-modes	o		o			
9.4.6	registered-mail-type	o		o			
9.4.7	recipient-number-for-advice	o		o			
9.4.8	physical-rendition-attributes	o		o			
9.4.9	physical-delivery-report-request	o		o			
9.4.10	message-token	o		o			see A.1.9/4
9.4.11	content-integrity-check	o		o			
9.4.12	proof-of-delivery-request	o		o			
9.4.13	certificate-selectors-override	o		o			see A.1.9/10
9.4.14	recipient-certificate	o		o			see A.1.8/8
9.4.15	IPMPPerRecipientEnvelopeExtensions	o		o			
9.4.16	PrivateExtensions	c ²		c ²			
2 if any access-94 application context is supported (A.1.1 items 5, 6, 7 or 8) then o else –							

A.1.5 ProbeSubmissionEnvelope

Ref.	Element	UA		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	originator-name	m		m			see A.1.10.2
2	original-encoded-information-types	m		m			see A.1.8/3
3	content-type	m		m			
4	content-identifier	o		m			
5	content-length	o		m			
6	per-message-indicators	m		m			see A.1.8/5
7	extensions	m		m			see A.1.9/1
7.1	recipient-reassignment-prohibited	o		o			
7.2	dl-expansion-prohibited	o		o			
7.3	conversion-with-loss-prohibited	o		o			
7.4	originator-certificate	o		o			see A.1.8/8
7.5	message-security-label	o		o			see A.1.9/3
7.6	content-correlator	o		m			
7.7	probe-origin-authentication-check	o		o			see A.1.9/5
7.8	certificate-selectors	o		o			see A.1.9/9
7.9	PrivateExtensions	c ²		c ²			
8	per-recipient-fields	m		m			
8.1	recipient-name	m		m			see A.1.10.1
8.2	originator-report-request	m		m			
8.3	explicit-conversion	o		o			
8.4	extensions	m		m			see A.1.9/1
8.4.1	originator-requested-alternate-recipient	o		o			see A.1.10.1
8.4.2	requested-delivery-method	o		o			
8.4.3	physical-rendition-attributes	o		o			
8.4.4	PrivateExtensions	c ²		c ²			
2 if any access-94 application context is supported (A.1.1 items 5, 6, 7 or 8) then o else –							

A.1.6 MessageDeliveryEnvelope

Ref.	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	message-delivery-identifier	m		m			see A.1.8/1
2	message-delivery-time	m		m			
3	other-fields	m		m			
3.1	content-type	m		m			
3.2	originator-name	m		m			see A.1.10.1
3.3	original-encoded-information-types	m		m			see A.1.8/3
3.4	priority	m		m			
3.5	delivery-flags	m		m			
3.5.1	implicit-conversion-prohibited	m		m			
3.6	other-recipient-names	m		m			see A.1.10.1
3.7	this-recipient-name	m		m			see A.1.10.1
3.8	originally-intended-recipient-name	m		m			see A.1.10.1
3.9	converted-encoded-information-types	m		m			see A.1.8/3
3.10	message-submission-time	m		m			
3.11	content-identifier	o		m			
3.12	extensions	m		m			see A.1.9/1
3.12.1	conversion-with-loss-prohibited	o		o			
3.12.2	requested-delivery-method	o		o			
3.12.3	physical-forwarding-prohibited	o		o			
3.12.4	physical-forwarding-address-request	o		o			
3.12.5	physical-delivery-modes	o		o			
3.12.6	registered-mail-type	o		o			
3.12.7	recipient-number-for-advice	o		o			
3.12.8	physical-rendition-attributes	o		o			
3.12.9	originator-return-address	o		o			
3.12.10	physical-delivery-report-request	o		o			
3.12.11	originator-certificate	o		o			see A.1.8/8
3.12.12	message-token	o		o			see A.1.9/4
3.12.13	content-confidentiality-algorithm-identifier	o		o			
3.12.14	content-integrity-check	o		o			

Ref.	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
3.12.15	message-origin-authentication-check	o		o			see A.1.9/2
3.12.16	message-security-label	o		o			see A.1.9/3
3.12.17	proof-of-delivery-request	o		o			
3.12.18	redirection-history	o		m			
3.12.19	dl-expansion-history	o		m			
3.12.20	trace-information	c ¹		c ¹			
3.12.21	internal-trace-information	c ¹		c ¹			
3.12.22	certificate-selectors	o		o			see A.1.9/9
3.12.23	certificate-selectors-override	o		o			see A.1.9/10
3.12.24	multiple-originator-certificates	o		o			see A.1.9/11
3.12.25	recipient-certificate	o		o			see A.1.8/8
3.12.26	dl-exempted-recipients	o		o			see A.1.10.1
3.12.27	IPMPerRecipientEnvelope Extensions	o		o			
3.12.28	PrivateExtensions	c ¹		c ¹			
1 if any access-94 application context is supported (A.1.1 items 5, 6, 7 or 8) then o else –							

A.1.7 ReportDeliveryEnvelope

Ref.	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	subject-submission-identifier	m		m			see A.1.8/1
2	content-identifier	o		m			
3	content-type	m		m			
4	original-encoded-information-types	m		m			see A.1.8/3
5	extensions	m		m			see A.1.9/1
5.1	message-security-label	o		o			see A.1.9/3
5.2	content-correlator	o		m			
5.3	redirection-history	c ²		c ³			
5.4	originator-and-DL-expansion-history	m		m			
5.5	reporting-DL-name	o		o			see A.1.10.1
5.6	reporting-MTA-certificate	o		o			see A.1.8/8
5.7	report-origin-authentication-check	o		o			see A.1.9/8
5.8	trace-information	c ²		c ²			

Ref.	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
5.9	internal-trace-information	c ²		c ²			
5.10	reporting-MTA-certificate-selector	o		o			see A.1.8/10
5.11	reporting-MTA-name	c ²		c ³			see A.1.9/12
5.12	PrivateExtensions	c ²		c ²			
6	per-recipient-fields	m		m			
6.1	actual-recipient-name	m		m			see A.1.10.1
6.2	delivery	m		m			
6.2.1	message-delivery-time	m		m			
6.2.2	type-of-MTS-user	m		m			
6.3	non-delivery	m		m			
6.3.1	non-delivery-reason-code	m		m			
6.3.2	non-delivery-diagnostic-code	o		m			
6.4	converted-encoded-information-types	m		m			see A.1.8/3
6.5	originally-intended-recipient-name	m		m			see A.1.10.1
6.6	supplementary-information	o		o			
6.7	extensions	m		m			see A.1.9/1
6.7.1	redirection-history	o		m			
6.7.2	physical-forwarding-address	o		o			
6.7.3	recipient-certificate	o		o			see A.1.8/8
6.7.4	proof-of-delivery	o		o			see A.1.9/6
6.7.5	recipient-certificate-selector	o		o			see A.1.8/10
6.7.6	PrivateExtensions	c ²		c ²			
2 if any access-94 application context is supported (A.1.1 items 5, 6, 7 or 8) then o else –							
3 if any access-94 application context is supported (A.1.1 items 5, 6, 7 or 8) then m else o							

A.1.8 Common data types

Ref.	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	MTSIdentifier						
1.1	global-domain-identifier	m		m			see A.1.8/2
1.2	local-identifier	m		m			
2	GlobalDomainIdentifier						

Ref.	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
2.1	country-name	m		m			
2.2	administration-domain-name	m		m			
2.3	private-domain-identifier	m		m			
3	EncodedInformationTypes						
3.1	built-in-encoded-information-types	m		m			
3.2	(non-basic parameters)	o		o			
3.3	extended-encoded-information-types	m		m			
4	ContentType						
4.1	built-in	o		o			
4.2	extended	o		o			
5	PerMessageIndicators						
5.1	disclosure-of-other-recipients	o		m			
5.2	implicit-conversion-prohibited	m		m			
5.3	alternate-recipient-allowed	o		m			
5.4	content-return-request	o		o			
5.5	reserved	o		o			
5.6	bit-5	o		o			
5.7	bit-6	o		o			
5.8	service-message	o		o			
6	Restricted						
6.1	permitted	o		o			
6.2	source-type	o		o			
6.2.1	originated-by	o		o			
6.2.2	redirected-by	o		o			
6.2.3	dl-expanded-by	o		o			
6.3	source-name	o		o			
6.3.1	exact-match	o		o			
6.3.2	pattern-match	o		o			
7	BindToken	m		m			
7.1	signature-algorithm-identifier	m		m			
7.2	name	m		m			
7.3	time	m		m			
7.4	signed-data	m		m			

Ref.	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
7.5	encryption-algorithm-identifier	o		o			
7.6	encrypted-data	o		o			
8	Certificates						
8.1	userCertificate	m		m			see A.1.8/9
8.2	certificationPath	o		o			see A.1.8/9
9	Certificate						
9.1	version	o		o			
9.2	serialNumber	m		m			
9.3	signature	m		m			
9.4	issuer	m		m			
9.5	validity	m		m			
9.6	subject	m		m			
9.7	subjectPublicKeyInfo	m		m			
9.8	issuerUniqueIdentifier	o		o			
9.9	subjectUniqueIdentifier	o		o			
9.10	extensions	m		m			
9.10.1	authorityKeyIdentifier	o		o			
9.10.2	subjectKeyIdentifier	o		o			
9.10.3	keyUsage	o		o			
9.10.4	extKeyUsage	o		o			
9.10.5	privateKeyUsagePeriod	o		o			
9.10.6	certificatePolicies	o		o			
9.10.7	policyMappings	o		o			
9.10.8	subjectAltName	o		o			
9.10.8.1	otherName	o		o			
9.10.8.1.1	mta-name	o		o			
9.10.8.2	rfc822Name	–		–			
9.10.8.3	dNSName	–		–			
9.10.8.4	x400Address	o		o			
9.10.8.5	directoryName	o		o			
9.10.8.6	ediPartyName	–		–			
9.10.8.7	uniformResourceIdentifier	–		–			
9.10.8.8	iPAddress	–		–			

Ref.	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
9.10.8.9	registeredID	–		–			
9.10.9	issuerAltName	o		o			
9.10.10	subjectDirectoryAttributes	o		o			
9.10.11	basicConstraints	o		o			
9.10.12	nameConstraints	o		o			
9.10.13	policyConstraints	o		o			
9.10.14	cRLDistributionPoints	o		o			
10	CertificateAssertion						
10.1	serialNumber	o		o			
10.2	issuer	o		o			
10.3	subjectKeyIdentifier	o		o			
10.4	authorityKeyIdentifier	o		o			
10.5	certificateValid	o		o			
10.6	privateKeyValid	o		o			
10.7	subjectPublicKeyAlgID	o		o			
10.8	keyUsage	o		o			
10.9	subjectAltName	o		o			
10.10	policy	o		o			
10.11	pathToName	–		–			

A.1.9 Extension data types

Ref.	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	ExtensionField						
1.1	type	o		m			
1.1.1	standard-extension	m		m			
1.1.2	private-extension	o		o			see A.3.6
1.2	criticality	m		m			
1.3	value	m		m			
2	MessageOriginAuthenticationCheck						
2.1	algorithm-identifier	m		m			
2.2	content	m		m			

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

Ref.	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
6.3	this-recipient-name	m		m			see A.1.10.1
6.4	originally-intended-recipient-name	o		o			see A.1.10.1
6.5	content	m		m			
6.6	content-identifier	o		o			
6.7	message-security-label	o		o			see A.1.9/3
7	ProofOfSubmission						
7.1	algorithm-identifier	m		m			
7.2	message-submission-envelope	m		m			
7.3	content	m		m			
7.4	message-submission-identifier	m		m			
7.5	message-submission-time	m		m			
8	ReportOriginAuthenticationCheck						
8.1	algorithm-identifier	m		m			
8.2	content-identifier	o		o			
8.3	message-security-label	o		o			see A.1.9/3
8.4	per-recipient	m		m			
8.4.1	actual-recipient-name	m		m			see A.1.10.1
8.4.2	originally-intended-recipient-name	o		o			see A.1.10.1
8.4.3	delivery	o		o			
8.4.3.1	message-delivery-time	m		m			
8.4.3.2	type-of-MTS-user	m		m			
8.4.3.3	recipient-certificate	o		o			see A.1.8/8
8.4.3.4	proof-of-delivery	o		o			see A.1.9/6
8.4.3.5	recipient-certificate-selector	o		o			see A.1.8/10
8.4.4	non-delivery	o		o			
8.4.4.1	non-delivery-reason-code	m		m			
8.4.4.2	non-delivery-diagnostic-code	o		o			
9	CertificateSelectors						
9.1	encryption-recipient	o		o			see A.1.8/10
9.2	encryption-originator	o		o			see A.1.8/10
9.3	content-integrity-check	o		o			see A.1.8/10
9.4	token-signature	o		o			see A.1.8/10

Ref.	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
9.5	message-origin-authentication	o		o			see A.1.8/10
10	CertificateSelectorsOverride						
10.1	encryption-recipient	o		o			see A.1.8/10
10.2	encryption-originator	o		o			see A.1.8/10
10.3	content-integrity-check	o		o			see A.1.8/10
10.4	token-signature	o		o			see A.1.8/10
11	ExtendedCertificate						
11.1	directory-entry	o		o			
11.2	certificate	o		o			see A.1.8/8
12	ReportingMTAName						
12.1	domain	m		m			see A.1.8/2
12.2	mta-name	m		m			
12.3	mta-directory-name	o		o			

A.1.10 OR-names

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

Ref.	OR-Name Form	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	mnemonic OR-address	m		m			see A.1.10.3
2	numeric OR-address	o		m			see A.1.10.4
3	terminal OR-address	o		m			see A.1.10.5
4	formatted postal OR-address	o		o			see A.1.10.6
5	unformatted postal OR-address	o		o			see A.1.10.7
6	directory-name	o		o			

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

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

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

A.1.10.3 Mnemonic OR-address

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

A.1.10.4 Numeric OR-address

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

A.1.10.5 Terminal OR-address

Ref.	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	built-in-standard-attributes	m		m			
1.1	country-name	o		o			
1.2	administration-domain-name	o		o			
1.3	network-address	m		m			
1.4	terminal-identifier	o		o			
1.5	private-domain-name	o		o			
1.6	organization-name	o		o			
1.7	personal-name	o		o			
1.8	organizational-unit-names	o		o			
2	built-in-domain-defined-attributes	o		o			
3	extension-attributes	o		o			
3.1	extended-network-address	m		m			
3.1.1	e163-4-address	c ¹		o			
3.1.2	psap-address	c ¹		o			
3.2	terminal-type	o		o			
3.3	common-name	o		o			
3.4	teletex-common-name	o		o			
3.5	universal-common-name	o		o			see A.1.10.8

Ref.	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
3.6	teletex-organization-name	o		o			
3.7	universal-organization-name	o		o			see A.1.10.8
3.8	teletex-personal-name	o		o			
3.9	universal-personal-name	o		o			see A.1.10.8
3.10	teletex-organizational-unit-names	o		o			
3.11	universal-organizational-unit-names	o		o			see A.1.10.8
3.12	unformatted-postal-address	o		o			
3.13	universal-unformatted-postal-address	o		o			see A.1.10.8
3.14	teletex-domain-defined-attributes	o		m			
3.15	universal-domain-defined-attributes	o		m			see A.1.10.8
1 At least one of the elements 'e163-4-address' and 'psap-address' shall be supported.							

A.1.10.6 Formatted postal OR-address

Ref.	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	built-in-standard-attributes	m		m			
1.1	country-name	m		m			
1.2	administration-domain-name	m		m			
1.3	private-domain-name	o		o			
2	extension-attributes	m		m			
2.1	physical-delivery-country-name	m		m			
2.2	physical-delivery-office-name	o		o			
2.3	universal-physical-delivery-office-name	o		o			see A.1.10.8
2.4	physical-delivery-office-number	o		o			
2.5	universal-physical-delivery-office-number	o		o			see A.1.10.8
2.6	physical-delivery-organization-name	o		o			
2.7	universal-physical-delivery-organization-name	o		o			see A.1.10.8
2.8	physical-delivery-personal-name	o		o			
2.9	universal-physical-delivery-personal-name	o		o			see A.1.10.8
2.10	postal-code	m		m			

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

A.1.10.7 Unformatted postal OR-address

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

A.1.10.8 UniversalOrBMPString

Ref.	Element	MTS-user		MTA		Support	Notes/References
		Base	Profile	Base	Profile		
1	UniversalOrBMPString						
1.1	character-encoding						
1.1.1	two-octets	m		m			
1.1.2	four-octets	m		m			
1.2	iso-639-language-code	o		o			

A.2 Optional functional groups

Not applicable for the base standard PICS.

NOTE – The numbering of subclauses and items in this annex is identical to that in ISO/IEC 10611-4.

A.3 Additional information

A.3.1 Content types supported

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

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

A.3.2 Encoded information types supported

The following table shall be completed to indicate (Y or ✓) which encoded information type(s) the implementation can support on submission and delivery. Any differences between support on submission and support on delivery shall be indicated in the Comments column.

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

A.3.3 Encoded information type conversions supported

If conversion is supported, the following table shall be completed for an MTA to indicate (Y or ✓) which encoded information type conversions the implementation can perform. The supplier shall also state in the Comments column for which content types support of the conversion capability is claimed and under what conditions loss of information is determined (if applicable).

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

A.3.4 Delivery capability

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

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

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

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A.3.5 Implementation constraints

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

Ref.	Constraint	Limit	Comments
1	limit on message size (if any) (see Note 1)		
2	limit on the number of recipients that may be specified in a message envelope (if any) (see Note 2)		
3	other (specify)		
NOTE 1 – Any limit on the maximum size of message content and/or envelope shall be stated. NOTE 2 – Any limit on the number of recipients that may be specified in a message envelope shall be stated (this does not imply a static capability to register that number of users for delivery at a single MTA).			

A.3.6 Supported extensions

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

Ref.	Extension identifier	Reference	Comments

Annexe B

Amendements et corrigenda

(Cette annexe fait partie intégrante de la présente Recommandation)

Les Recommandations et les Normes internationales sont constamment examinées et révisées par l'UIT-T et l'ISO/CEI. Les amendements et corrigenda suivants sont approuvés par l'UIT-T et l'ISO/CEI et sont considérés comme des références normatives dans la présente Recommandation.

Aucun.

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