UNIÓN  INTERNACIONAL  DE  TELECOMUNICACIONES

# UIT-T

SECTOR  DE  NORMALIZACIÓN
DE  LAS  TELECOMUNICACIONES
DE  LA  UIT

# X.484
(06/99)

## SERIE X: REDES DE DATOS Y COMUNICACIÓN ENTRE SISTEMAS ABIERTOS
Sistemas de tratamiento de mensajes

# Sistemas de tratamiento de mensajes – Formulario de declaración de conformidad de implementación de protocolo para el protocolo P7

Recomendación  UIT-T  X.484

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# RECOMENDACIÓN UIT-T X.484

## SISTEMAS DE TRATAMIENTO DE MENSAJES – FORMULARIO DE DECLARACIÓN DE CONFORMIDAD DE IMPLEMENTACIÓN DE PROTOCOLO PARA EL PROTOCOLO P7

### Resumen

Esta Recomendación proporciona el formulario de declaración de conformidad de implementación de protocolo (PICS, *protocol implementation conformance statement)* para el protocolo P7 de los sistemas de tratamiento de mensajes (MHS, *message handling systems*) (acceso MS 88 y acceso MS 94) especificados en la Rec. UIT-T X.413 │ ISO/CEI 10021-5 y en la Rec. UIT-T X.419 │ ISO/CEI 10021-6. El formulario de PICS presenta en forma tabular los elementos obligatorios y facultativos del protocolo P7.

### Orígenes

La Recomendación UIT-T X.484, ha sido revisada por la Comisión de Estudio 7 (1997-2000) del UIT-T y fue aprobada por el procedimiento de la Resolución N.º 1 de la CMNT el 25 de septiembre de 1998.

Según la decisión de la Comisión de Estudio 7 (18 de junio de 1999) de publicar una nueva edición de las Recomendaciones relativas a los sistemas de tratamiento de mensajes, se decidió, de acuerdo con el Director de la TSB, publicar también las Recomendaciones X.481, X.482, X.483, X.484 y X.486 con fecha 1999.

# PREFACIO

La UIT (Unión Internacional de Telecomunicaciones) es el organismo especializado de las Naciones Unidas en el campo de las telecomunicaciones. El UIT-T (Sector de Normalización de las Telecomunicaciones de la UIT) es un órgano permanente de la UIT. Este órgano estudia los aspectos técnicos, de explotación y tarifarios y publica Recomendaciones sobre los mismos, con miras a la normalización de las telecomunicaciones en el plano mundial.

La Conferencia Mundial de Normalización de las Telecomunicaciones (CMNT), que se celebra cada cuatro años, establece los temas que han de estudiar las Comisiones de Estudio del UIT-T, que a su vez producen Recomendaciones sobre dichos temas.

La aprobación de Recomendaciones por los Miembros del UIT-T es el objeto del procedimiento establecido en la Resolución N.° 1 de la CMNT.

En ciertos sectores de la tecnología de la información que corresponden a la esfera de competencia del UIT-T, se preparan las normas necesarias en colaboración con la ISO y la CEI.

## NOTA

En esta Recomendación, la expresión *empresa de explotación reconocida (EER)* designa a toda persona, compañía, empresa u organización gubernamental que explote un servicio de correspondencia pública. Los términos *Administración, EER* y *correspondencia pública* están definidos en la *Constitución de la UIT (Ginebra, 1992)*.

## PROPIEDAD INTELECTUAL

La UIT señala a la atención la posibilidad de que la utilización o aplicación de la presente Recomendación suponga el empleo de un derecho de propiedad intelectual reivindicado. La UIT no adopta ninguna posición en cuanto a la demostración, validez o aplicabilidad de los derechos de propiedad intelectual reivindicados, ya sea por los miembros de la UIT o por terceros ajenos al proceso de elaboración de Recomendaciones.

En la fecha de aprobación de la presente Recomendación, la UIT no ha recibido notificación de propiedad intelectual, protegida por patente, que puede ser necesaria para aplicar esta Recomendación. Sin embargo, debe señalarse a los usuarios que puede que esta información no se encuentre totalmente actualizada al respecto, por lo que se les insta encarecidamente a consultar la base de datos sobre patentes de la TSB.

# ÍNDICE

# Introducción

Esta Recomendación forma parte de un conjunto de Recomendaciones que definen el tratamiento de mensajes en un entorno de sistemas abiertos distribuidos.

La finalidad del tratamiento de mensajes es el intercambio de mensajes entre usuarios con un sistema de almacenamiento y retransmisión. El mensaje presentado por un usuario (el originador) se transfiere a través del sistema de transferencia de mensajes (MTS, *message transfer system*) y se entrega a uno o más usuarios (los destinatarios). El MTS comprende varios agentes de transferencia de mensajes (MTA, *message transfer agent*), que transfieren los mensajes y los entregan a los destinatarios.

Para evaluar las capacidades de una implementación particular es necesario disponer de una declaración que indique las capacidades y opciones que han sido implementadas para un protocolo OSI determinado. Dicha declaración se denomina declaración de conformidad de implementación de protocolo (PICS).

# SISTEMAS DE TRATAMIENTOS DE MENSAJES – FORMULARIO DE DECLARACIÓN DE CONFORMIDAD DE IMPLEMENTACIÓN DE PROTOCOLO PARA EL PROTOCOLO P7[1]

## 1      Alcance

Esta Recomendación proporciona el formulario de declaración de conformidad de implementación de protocolo (PICS), para el protocolo P7 especificado en la Rec. UIT-T X.413 | ISO/CEI 10021-5 y en la Rec. UIT-T X.419 | ISO/CEI 10021-6. El formulario de PICS presenta en forma tabular los elementos obligatorios y facultativos del protocolo P7. Se proporcionan dos formularios PICS. El anexo A contiene el formulario PICS para el acceso a almacenamiento de mensajes para la versión 1994 y ulteriores de las Recomendaciones | Normas Internacionales del MHS. El anexo B contiene el formulario PICS para el acceso a almacenamiento de mensajes para la versión 1988 de las Recomendaciones | Normas Internacionales del MHS.

El formulario de PICS se basa en las directrices pertinentes sobre formularios de PICS que figuran en la Rec. UIT-T X.296 | ISO/CEI 9646-7.

## 2      Referencias normativas

Las siguientes Recomendaciones y Normas Internacionales contienen disposiciones que, mediante su referencia en este texto, constituyen disposiciones de la presente Recomendación | Norma Internacional. Al efectuar esta publicación, estaban en vigor las ediciones indicadas. Todas las Recomendaciones y Normas son objeto de revisiones, por lo que se preconiza que los participantes en acuerdos basados en la presente Recomendación | Norma Internacional investiguen la posibilidad de aplicar las ediciones más recientes de las Recomendaciones y las Normas Internacionales actualmente vigentes. La Oficina de Normalización de las Telecomunicaciones de la UIT mantiene una lista de las Recomendaciones UIT-T actualmente vigentes.

### 2.1      Recomendaciones | Normas internacionales idénticas

–      Recomendación UIT-T X.402 (1999) | ISO/CEI 10021-2:1999, *Tecnología de la Información – Sistemas de tratamiento de mensajes: Arquitectura global.*

–      Recomendación UIT-T X.413 (1999) | ISO/CEI 10021-5:1999, *Tecnología de la Información – Sistemas de tratamiento de mensajes: Memoria de mensajes*: *Definición del servicio abstracto.*

–      Recomendación UIT-T X.419 (1999) | ISO/CEI 10021-6:1999, *Tecnología de la Información – Sistemas de tratamiento de mensajes: Especificaciones de protocolo.*

### 2.2      Pares de Recomendaciones | Normas internacionales de contenido técnico equivalente

–      Recomendación UIT-T X.290 (1995), *Metodología y marco de las pruebas de conformidad de interconexión de sistemas abiertos de las Recomendaciones sobre los protocolos para aplicaciones del UIT-T – Conceptos generales.*

      ISO/CEI 9646-1:1994, *Information technology – Open Systems Interconnection – Conformance testing methodology and framework – Part 1: General concepts.*

–      Recomendación UIT-T X.296 (1995), *Metodología y marco de las pruebas de conformidad de interconexión de sistemas abiertos de las Recomendaciones sobre los protocolos para aplicaciones del UIT-T – Declaraciones de conformidad de implementación.*

      ISO/CEI 9646-7:1995, *Information technology – Open Systems Interconnection – Conformance testing methodology and framework – Part 7: Implementation conformance statements.*

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[1] El anexo A de la presente Recomendación está alineado técnicamente con el anexo A de ISO/CEI ISP 10611-6, Information technology – International Standardized Profiles AMH1n – Message Handling Systems – Common Messaging – Part 6: AMH15 – MS 94 Access (P7). El anexo B de esta Recomendación está alineado técnicamente con el anexo A de ISO/CEI ISP 10611-5, Information Technology – International Standardized Profiles AMH1n – Message Handling Systems – Commom Messaging – Part 5: AMH13 – MS Access (P7).

## 3 Definiciones

Los términos utilizados en esta Recomendación se definen en las Recomendaciones | Normas Internacionales referenciadas.

## 4 Abreviaturas

En esta Recomendación se utilizan las siguientes siglas.

ISP     Perfil normalizado internacional (*international standardized profile*)

MHS     Sistema de tratamiento de mensaje (*message handling systems*)

MS      Memoria de mensajes (*message store*)

MTA     Agente de transferencia de mensajes (*message transfer agent*)

OSI     Interconexión de sistemas abiertos (*open systems interconnection*)

PDU     Unidad de datos de protocolo (*protocol data unit*)

PICS    Declaración de conformidad de implementación de protocolo (*protocol implementation conformance statement*)

UA      Agente de usuario (*user agent*)

## 5 Conformidad

Un formulario de PICS conforme será técnicamente equivalente al texto del formulario de PICS de esta Recomendación y observará la numeración y el orden de los elementos del formulario de PICS de esta Recomendación.

Un formulario de PICS conforme a esta Recomendación deberá:

a)    describir una implementación conforme al contexto de aplicación 1994 o 1988 definido en la Rec. UIT-T X.413 | ISO/CEI 10021-5 y a la Rec. UIT-T X.419 | ISO/CEI 10021-6;

b)    ser un formulario de PICS conforme, completado según las instrucciones que figuran en el anexo A o en el anexo B según proceda;

c)    incluir la información necesaria para identificar de manera única tanto al proveedor como a la implementación.

**Formulario de PICS para el protocolo P7 de acceso a memoria de mensaje (MS 94)**

(Este anexo es parte integrante de la presente Recomendación)

**Contents of the PICS proforma**

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 10611-6, "Information technology – International Standardized Profiles AMH1n – Message Handling Systems – Common Messaging – Part 6: AMH15 – MS 94 Access (P7)".

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[2]    **Comunicado sobre derechos de autor del formulario de PICS**

    Los usuarios de esta Recomendación pueden reproducir libremente el formulario de PICS de este anexo a fin de que pueda ser utilizado para los fines previstos, y pueden además publicar el PICS cumplimentado.

## 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 P7 protocol with a consistent means of stating which proforma has been implemented.

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 an 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 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. 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 in A.3.6). The way in which attribute values are stored by an MS implementation, or used by an 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 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.484

| 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) | 1994 version |
| 3 | Addenda/amendments/corrigenda implemented | |
| 4 | MHS Implementors' Guide version implemented | |

### A.0.3.5 Type of implementation

| Ref. | Implementation Type | Response |
|------|---------------------|----------|
| 1 | MS-user (UA) | |
| 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.0.3.6 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 | MS-user | | MS | | Support | Notes/References |
|------|---------------------|---------|---------|------|---------|---------|------------------|
| | | Base | Profile | Base | Profile | | |
| 1 | ms-access-94 | o | | o | | | Note 1 |
| 2 | ms-reliable-access-94 | o | | o | | | Note 2 |

NOTE 1 – For a MS implementation, the application-context ms-access shall also be supported.

NOTE 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 | | | see A.1.3.1 |
| 2 | MSUnbind | 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 | | | see A.1.3.2 |
| 2 | MSProbeSubmission | o | | m | | | see A.1.3.3 |
| 3 | CancelDeferredDelivery | o | | m[1] | | | see A.1.3.4 |
| 4 | SubmissionControl | 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 | | m | | | see A.1.3.6 |
| 2 | List | o | | m | | | see A.1.3.7 |
| 3 | Fetch | m | | m | | | see A.1.3.8 |
| 4 | Delete | m | | m | | | see A.1.3.9 |
| 5 | Register-MS | o | | m | | | see A.1.3.10 |
| 6 | Alert | o | | o | | | see A.1.3.11 |
| 7 | Modify | o | | o | | | see A.1.3.12 |

#### 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 | | | see A.1.3.13 |
| 2 | ChangeCredentials (MTA to MS) | – | | o | | | |
| 3 | ChangeCredentials (MS-user to MTA via MS) | o | | o | | | see A.1.3.14 |
| 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 | | | see A.1.10.2 |
| 1.2 | initiator-credentials | m | | m | | | |
| 1.2.1 | simple | m | | m | | | |
| 1.2.1.1 | ia5-string | o | | m | | | |
| 1.2.1.2 | octet-string | o | | m | | | |
| 1.2.2 | strong | o | | o | | | |
| 1.2.2.1 | bind-token | m | | m | | | |
| 1.2.2.1.1 | token-type-identifier | m | | m | | | |
| 1.2.2.1.2 | token | m | | m | | | see A.1.11 |
| 1.2.2.2 | certificate | o | | o | | | see A.1.8/22 |
| 1.2.2.3 | certificate-selector | o | | o | | | see A.1.8/24 |
| 1.2.3 | protected | o | | o | | | |
| 1.2.3.1 | signature | m | | m | | | |
| 1.2.3.1.1 | password | o | | o | | | |
| 1.2.3.1.2 | time1 | o | | o | | | |
| 1.2.3.1.3 | time2 | o | | o | | | |
| 1.2.3.1.4 | random1 | o | | o | | | |
| 1.2.3.1.5 | random2 | o | | o | | | |
| 1.2.3.2 | time1 | o | | o | | | |
| 1.2.3.3 | time2 | o | | o | | | |
| 1.2.3.4 | random1 | o | | o | | | |
| 1.2.3.5 | random2 | o | | o | | | |
| 1.3 | security-context | o | | o | | | see A.1.9/3 |
| 1.4 | fetch-restrictions | o | | o | | | |
| 1.4.1 | allowed-content-types | o | | o | | | |
| 1.4.2 | allowed-EITs | o | | o | | | |
| 1.4.3 | maximum-attribute-length | o | | o | | | |
| 1.5 | ms-configuration-request | o | | m | | | |
| 1.6 | ua-registration-identifier | o | | o | | | |
| 1.7 | bind-extensions | o | | o | | | |
| 2 | RESULT | | | | | | |
| 2.1 | responder-credentials | m | | m | | | |
| 2.1.1 | simple | m | | m | | | |
| 2.1.1.1 | ia5-string | m | | o | | | |
| 2.1.1.2 | octet-string | m | | o | | | |
| 2.1.2 | strong | o | | o | | | |
| 2.1.2.1 | bind-token | m | | m | | | |
| 2.1.2.1.1 | token-type-identifier | m | | m | | | |
| 2.1.2.1.2 | token | m | | m | | | see A.1.11 |
| 2.1.2.2 | certificate | o | | o | | | see A.1.8/22 |
| 2.1.2.3 | certificate-selector | o | | o | | | see A.1.8/24 |

| Ref. | Element | MS-user Base | MS-user Profile | MS Base | MS Profile | Support | Notes/References |
|---|---|---|---|---|---|---|---|
| 2.1.3 | protected | o | | o | | | |
| 2.1.3.1 | signature | m | | m | | | |
| 2.1.3.1.1 | password | o | | o | | | |
| 2.1.3.1.2 | time1 | o | | o | | | |
| 2.1.3.1.3 | time2 | o | | o | | | |
| 2.1.3.1.4 | random1 | o | | o | | | |
| 2.1.3.1.5 | random2 | o | | o | | | |
| 2.1.3.2 | time1 | o | | o | | | |
| 2.1.3.3 | time2 | o | | o | | | |
| 2.1.3.4 | random1 | o | | o | | | |
| 2.1.3.5 | random2 | o | | o | | | |
| 2.2 | available-auto-actions | o | | $c^2$ | | | |
| 2.3 | available-attribute-types | o | | m | | | |
| 2.4 | alert-indication | o | | o | | | |
| 2.5 | content-types-supported | o | | $c^3$ | | | |
| 2.6 | entry-classes-supported | o | | m | | | see A.1.8/5 |
| 2.7 | matching-rules-supported | o | | m | | | |
| 2.8 | bind-result-extensions | $c^{10}$ | | $c^{10}$ | | | |
| 2.8.1 | modify-capability | $c^{12}$ | | $c^{12}$ | | | |
| 2.8.2 | modify-retrieval-status-capability | $c^{13}$ | | $c^{13}$ | | | |
| 2.8.3 | protected-change-credentials-capability | $c^{14}$ | | $c^{14}$ | | | |
| 2.9 | message-group-depth | o | | $c^{11}$ | | | |
| 2.10 | auto-action-error-indication | $c^7$ | | $c^7$ | | | |
| 2.10.1 | indication-only | $c^8$ | | $c^8$ | | | |
| 2.10.2 | auto-action-log-entry | $c^9$ | | $c^9$ | | | |
| 2.11 | unsupported-extensions | o | | o | | | |
| 2.12 | ua-registration-id-unknown | $c^6$ | | $m^5$ | | | |
| 2.13 | service-information | o | | o | | | |

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 –

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 | | | see A.1.4 |
| 1.2 | content | m | | m | | | |
| 1.3 | submission-options | o | | o | | | |
| 1.3.1 | object-entry-class | o | | o | | | see A.1.8/5 |
| 1.3.2 | disable-auto-modify | o | | o | | | |
| 1.3.3 | add-message-group-names | o | | o | | | |
| 1.3.4 | ms-submission-extensions | o | | o | | | |
| 1.3.4.1 | originator-token | o | | o | | | see A.1.9/4 |
| 1.3.4.2 | originator-certificate-selectors-override | o | | o | | | see A.1.9/8 |
| 2 | RESULT | | | | | | |
| 2.1 | mts-result | m | | m | | | |
| 2.1.1 | message-submission-identifier | m | | m | | | see A.1.8/8 |
| 2.1.2 | message-submission-time | m | | m | | | |
| 2.1.3 | content-identifier | o | | m | | | |
| 2.1.4 | extensions | o | | m | | | see A.1.9/1 |
| 2.1.4.1 | originating-MTA-certificate | o | | o | | | see A.1.8/22 |
| 2.1.4.2 | proof-of-submission | o | | o | | | see A.1.9/6 |
| 2.1.4.3 | originating-MTA-certificate-selector | o | | o | | | see A.1.8/24 |
| 2.1.5 | ms-message-result | o | | o | | | |
| 2.1.5.1 | created-entry | o | | o | | | |
| 2.1.5.2 | auto-action-error-indication | o | | o | | | |
| 2.1.5.2.1 | indication-only | $c^2$ | | $c^2$ | | | |
| 2.1.5.2.2 | auto-action-log-entry | $c^3$ | | $c^3$ | | | |
| 2.1.5.3 | ms-submission-result-extensions | o | | o | | | |
| 2.2 | store-draft-result | o | | o | | | |
| 2.2.1 | created-entry | m | | m | | | |
| 2.2.2 | auto-action-error-indication | o | | o | | | |
| 2.2.2.1 | indication-only | $c^2$ | | $c^2$ | | | |
| 2.2.2.2 | auto-action-log-entry | $c^3$ | | $c^3$ | | | |
| 2.2.3 | ms-submission-result-extensions | o | | o | | | |
| 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 | | | see A.1.5 |
| 1.2 | submission-options | o | | o | | | |
| 1.2.1 | object-entry-class | o | | o | | | see A.1.8/5 |
| 1.2.2 | disable-auto-modify | o | | o | | | |
| 1.2.3 | add-message-group-names | o | | o | | | |
| 1.2.4 | ms-submission-extensions | o | | o | | | |
| 2 | RESULT | | | | | | |
| 2.1 | probe-submission-identifier | m | | m | | | see A.1.8/8 |
| 2.2 | probe-submission-time | m | | m | | | |
| 2.3 | content-identifier | o | | m | | | |
| 2.4 | extensions | o | | m | | | |
| 2.5 | ms-probe-result | o | | o | | | |
| 2.5.1 | created-entry | o | | o | | | |
| 2.5.2 | auto-action-error-indication | o | | o | | | |
| 2.5.2.1 | indication-only | $c^2$ | | $c^2$ | | | |
| 2.5.2.2 | auto-action-log-entry | $c^3$ | | $c^3$ | | | |
| 2.5.3 | ms-submission-result-extensions | o | | o | | | |
| 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 | | | see A.1.8/8 |
| 2 | RESULT | | | | | | |
| 2.1 | NULL | 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 | | | |
| 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 | | | | | | |
| 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.1.8/10 |

### A.1.3.6   Summarize

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

### A.1.3.7　List

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|---|---|---|---|---|---|---|---|
| | | **Base** | **Profile** | **Base** | **Profile** | | |
| 1 | ARGUMENT | | | | | | |
| 1.1 | entry-class | o | | m | | | see A.1.8/5 |
| 1.2 | selector | m | | m | | | see A.1.8/7 |
| 1.3 | requested-attributes | m | | m | | | see A.1.8/1 |
| 1.4 | list-extensions | o | | o | | | |
| 2 | RESULT | | | | | | |
| 2.1 | next | c[1] | | m | | | |
| 2.2 | requested | m | | m | | | see A.1.8/2 |
| 2.3 | list-result-extensions | 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 | | m | | | see A.1.8/5 |
| 1.2 | item | m | | m | | | |
| 1.2.1 | search | o | | o | | | see A.1.8/7 |
| 1.2.2 | precise | o | | o | | | |
| 1.3 | requested-attributes | m | | m | | | see A.1.8/1 |
| 1.4 | fetch-extensions | o | | o | | | |
| 2 | RESULT | | | | | | |
| 2.1 | entry-information | m | | m | | | see A.1.8/2 |
| 2.2 | list | o | | o | | | |
| 2.3 | next | c[1] | | c[1] | | | |
| 2.4 | fetch-result-extensions | 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 | | m | | | see A.1.8/5 |
| 1.2 | items | m | | m | | | |
| 1.2.1 | selector | o | | m | | | see A.1.8/7 |
| 1.2.2 | sequence-numbers | o | | m | | | |
| 1.3 | delete-extensions | o | | o | | | |
| 2 | RESULT | | | | | | |
| 2.1 | delete-result-94 | m | | m | | | |
| 2.1.1 | entries-deleted | m | | m | | | |
| 2.1.2 | delete-result-extensions | 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 | | | see A.1.8/15 |
| 1.2 | auto-action-deregistrations | o | | o | | | |
| 1.2.1 | auto-action-type | m | | m | | | |
| 1.2.2 | registration-identifier | o | | o | | | |
| 1.3 | list-attribute-defaults | o | | o | | | |
| 1.4 | fetch-attribute-defaults | o | | o | | | |
| 1.5 | change-credentials | m | | m | | | |
| 1.5.1 | old-credentials | m | | m | | | |
| 1.5.1.1 | simple | m | | m | | | |
| 1.5.1.1.1 | ia5-string | o | | m | | | |
| 1.5.1.1.2 | octet-string | o | | m | | | |
| 1.5.2 | new-credentials | m | | m | | | |
| 1.5.2.1 | simple | m | | m | | | |
| 1.5.2.1.1 | ia5-string | o | | m | | | |
| 1.5.2.1.2 | octet-string | o | | m | | | |
| 1.6 | user-security-labels | o | | o | | | see A.1.9/3 |
| 1.7 | ua-registrations | o | | o | | | see A.1.8/16 |
| 1.8 | submission-defaults | o | | o | | | |
| 1.8.1 | object-entry-class | o | | o | | | |
| 1.8.2 | disable-auto-modify | o | | o | | | |
| 1.8.3 | add-message-group-names | o | | o | | | |
| 1.8.4 | ms-submission-extensions | o | | o | | | |

| Ref. | Element | MS-user Base | MS-user Profile | MS Base | MS Profile | Support | Notes/References |
|---|---|---|---|---|---|---|---|
| 1.9 | message-group-registrations | o | | o | | | |
| 1.9.1 | register-group | o | | o | | | see A.1.8/14 |
| 1.9.2 | deregister-group | o | | o | | | |
| 1.9.3 | change-descriptors | o | | o | | | see A.1.8/14 |
| 1.10 | registration-status-request | o | | o | | | |
| 1.10.1 | registrations | m | | m | | | |
| 1.10.2 | restrict-message-groups | o | | o | | | |
| 1.10.2.1 | parent-group | o | | o | | | |
| 1.10.2.2 | immediate-descendants-only | o | | o | | | |
| 1.10.2.3 | omit-descriptors | o | | o | | | |
| 1.11 | register-ms-extensions | o | | o | | | |
| 1.11.1 | protected-change-credentials | o | | o | | | |
| 2 | RESULT | | | | | | |
| 2.1 | no-status-information | m | | m | | | |
| 2.2 | registered-information | o | | o | | | |
| 2.2.1 | auto-action-registrations | o | | o | | | see A.1.8/15 |
| 2.2.2 | list-attribute-defaults | o | | o | | | |
| 2.2.3 | fetch-attribute-defaults | o | | o | | | |
| 2.2.4 | ua-registrations | o | | o | | | see A.1.8/16 |
| 2.2.5 | submission-defaults | o | | o | | | see A.1.8/17 |
| 2.2.6 | message-group-registrations | o | | o | | | see A.1.8/14 |
| 2.2.7 | register-ms-result-extensions | o | | o | | | |

### A.1.3.11 Alert

| Ref. | Element | MS-user Base | MS-user Profile | MS Base | MS Profile | Support | Notes/References |
|---|---|---|---|---|---|---|---|
| 1 | ARGUMENT | | | | | | |
| 1.1 | alert-registration-identifier | m | | m | | | |
| 1.2 | new-entry | o | | m | | | see A.1.8/2 |
| 2 | RESULT | | | | | | |
| 2.1 | NULL | m | | m | | | |

### A.1.3.12 Modify

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

### 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 | | | 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 | encoded-information-types-constraints | o | | o | | | see A.1.8/20 |
| 1.3.4 | security-labels | o | | o | | | see A.1.9/3 |
| 1.3.5 | extensions | o | | o | | | |
| 1.4 | default-delivery-controls | o | | o | | | |
| 1.4.1 | restrict | o | | o | | | |
| 1.4.2 | permissible-operations | o | | o | | | |
| 1.4.3 | permissible-maximum-content-length | o | | o | | | |
| 1.4.4 | permissible-lowest-priority | o | | o | | | |
| 1.4.5 | permissible-content-types | o | | o | | | |
| 1.4.6 | permissible-encoded-information-types | o | | o | | | see A.1.8/20 |
| 1.5 | redirections | o | | o | | | |
| 1.5.1 | redirection-classes | o | | o | | | |
| 1.5.1.1 | content-types | o | | o | | | |
| 1.5.1.2 | maximum-content-length | o | | o | | | |
| 1.5.1.3 | encoded-information-types-constraints | o | | o | | | see A.1.8/20 |
| 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 | | | |
| 1.5.1.7 | applies-only-to | o | | o | | | see A.1.8/21 |

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|------|---------|---------|---------|------|---------|---------|------------------|
| | | **Base** | **Profile** | **Base** | **Profile** | | |
| 1.5.2 | recipient-assigned-alternate-recipient | o | | o | | | see A.1.10.1 |
| 1.6 | restricted-delivery | o | | o | | | see A.1.8/21 |
| 1.7 | retrieve-registrations | o | | o | | | |
| 1.7.1 | standard-parameters | o | | o | | | |
| 1.7.2 | extensions | o | | o | | | |
| 1.8 | extensions | o | | o | | | |
| 2 | RESULT | | | | | | |
| 2.1 | empty-result | m | | m | | | |
| 2.2 | non-empty-result | o | | m | | | |
| 2.2.1 | registered-information | o | | m | | | |
| 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 | encoded-information-types-constraints | o | | o | | | see A.1.8/20 |
| 2.2.1.3.4 | security-labels | o | | o | | | see A.1.9/3 |
| 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 | | | |
| 2.2.1.4.5 | permissible-content-types | o | | o | | | |
| 2.2.1.4.6 | permissible-encoded-information-types | o | | o | | | see A.1.8/20 |
| 2.2.1.5 | redirections | o | | o | | | |
| 2.2.1.5.1 | redirection-classes | o | | o | | | |
| 2.2.1.5.1.1 | encoded-information-types-constraints | o | | o | | | see A.1.8/20 |
| 2.2.1.5.1.2 | maximum-content-length | o | | o | | | |
| 2.2.1.5.1.3 | content-types | o | | o | | | |
| 2.2.1.5.1.4 | security-labels | o | | o | | | see A.1.9/3 |
| 2.2.1.5.1.5 | priority | o | | o | | | |
| 2.2.1.5.1.6 | objects | o | | o | | | |
| 2.2.1.5.1.7 | applies-only-to | o | | o | | | see A.1.8/21 |
| 2.2.1.5.2 | recipient-assigned-alternate-recipient | o | | o | | | see A.1.10.1 |
| 2.2.1.6 | restricted-delivery | o | | o | | | see A.1.8/21 |
| 2.2.1.7 | extensions | o | | o | | | |
| 2.2.2 | extensions | o | | 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 | | | |
| 1.1.1 | simple | m | | m | | | |
| 1.1.1.1 | IA5String | o | | m | | | |
| 1.1.1.2 | OCTET STRING | o | | m | | | |
| 1.2 | new-credentials | m | | m | | | |
| 1.2.1 | simple | m | | m | | | |
| 1.2.1.1 | IA5String | o | | m | | | |
| 1.2.1.2 | OCTET STRING | o | | m | | | |
| 2 | RESULT | | | | | | |
| 2.1 | NULL | m | | m | | | |

### A.1.4 MessageSubmissionEnvelope

| Ref. | Element | MS-user | | MS | | 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.1.8/10 |
| 3 | content-type | m | | m | | | see A.1.8/11 |
| 4 | content-identifier | o | | m | | | |
| 5 | priority | m | | m | | | |
| 6 | per-message-indicators | m | | m | | | see A.1.8/12 |
| 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 | | | |
| 8.5 | originator-return-address | o | | o | | | see A.1.10.1 |
| 8.6 | originator-certificate | o | | o | | | see A.1.8/22 |
| 8.7 | content-confidentiality-algorithm-identifier | o | | o | | | |

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|------|---------|---------|---------|------|---------|---------|------------------|
| | | **Base** | **Profile** | **Base** | **Profile** | | |
| 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.1.9/7 |
| 8.13 | multiple-originator-certificates | o | | o | | | see A.1.9/9 |
| 8.14 | dl-exempted-recipients | o | | o | | | see A.1.10.1 |
| 8.15 | forwarding-request | x³ | | x³ | | | |
| 8.16 | PrivateExtensions | o | | o | | | see A.3.3 |
| 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.1.9/8 |
| 9.4.14 | recipient-certificate | o | | o | | | see A.1.8/22 |
| 9.4.15 | IPMPerRecipientEnvelope Extensions | o | | o | | | |
| 9.4.16 | PrivateExtensions | o | | o | | | see A.3.3 |
| 3    the presence of this element is prohibited when using 94 application-context | | | | | | | |

### A.1.5    ProbeSubmissionEnvelope

| Ref. | Element | MS-user | | MS | | 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.1.8/10 |
| 3 | content-type | m | | m | | | see A.1.8/11 |
| 4 | content-identifier | o | | m | | | |
| 5 | content-length | o | | m | | | |
| 6 | per-message-indicators | m | | m | | | see A.1.8/12 |
| 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.1.8/22 |
| 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.1.9/7 |
| 7.9 | PrivateExtensions | o | | o | | | see A.3.3 |
| 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 | o | | o | | | see A.3.3 |

### A.1.6    (Not used)

NOTE – Not used to maintain clause numbering alignment with Annex B.

### A.1.7    (Not used)

NOTE – Not used to maintain clause numbering alignment with Annex B.

## 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 | | | |
| 1.2 | from | o | | o | | | |
| 1.3 | count | o | | o | | | |
| 2 | EntryInformation | | | | | | |
| 2.1 | sequence-number | m | | m | | | |
| 2.2 | attributes | m | | m | | | |
| 3 | Filter | | | | | | |
| 3.1 | item | m | | m | | | see A.1.8/4 |
| 3.2 | and | o | | m | | | |
| 3.3 | or | o | | m | | | |
| 3.4 | not | o | | m | | | |
| 4 | FilterItem | | | | | | |
| 4.1 | equality | o | | m | | | |
| 4.2 | substrings | o | | o | | | |
| 4.2.1 | type | m | | m | | | |
| 4.2.2 | strings | m | | m | | | |
| 4.2.2.1 | initial | o | | m | | | |
| 4.2.2.2 | any | o | | m | | | |
| 4.2.2.3 | final | o | | m | | | |
| 4.3 | greater-or-equal | o | | m | | | |
| 4.4 | less-or-equal | o | | m | | | |
| 4.5 | present | o | | m | | | |
| 4.6 | approximate-match | o | | o | | | |
| 4.7 | other-match | o | | o | | | |
| 4.7.1 | matching-rule | m | | m | | | |
| 4.7.2 | attribute-type | m | | m | | | |
| 4.7.3 | match-value | m | | m | | | |
| 5 | EntryClass | | | | | | |
| 5.1 | delivery | m | | m | | | |
| 5.2 | submission | o | | o | | | |
| 5.3 | draft | o | | o | | | |
| 5.4 | stored-message | m | | m | | | |
| 5.5 | delivery-log | $c^4$ | | $c^4$ | | | |
| 5.6 | submission-log | $c^5$ | | $c^5$ | | | |
| 5.7 | message-log | $c^6$ | | $c^6$ | | | |
| 5.8 | auto-action-log | o | | o | | | |
| 6 | Range | | | | | | |
| 6.1 | sequence-number-range | o | | m | | | |
| 6.1.1 | from | o | | m | | | |

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|---|---|---|---|---|---|---|---|
| | | Base | Profile | Base | Profile | | |
| 6.1.2 | to | o | | m | | | |
| 6.2 | creation-time-range | o | | m | | | |
| 6.2.1 | from | o | | m | | | |
| 6.2.2 | to | o | | m | | | |
| 7 | Selector | | | | | | |
| 7.1 | child-entries | o | | m | | | |
| 7.2 | range | o | | m | | | see A.1.8/6 |
| 7.3 | filter | o | | m | | | see A.1.8/3 |
| 7.4 | limit | o | | m | | | |
| 7.5 | override | o | | o | | | |
| 8 | MTSIdentifier | | | | | | |
| 8.1 | global-domain-identifier | m | | m | | | see A.1.8/9 |
| 8.2 | local-identifier | m | | m | | | |
| 9 | GlobalDomainIdentifier | | | | | | |
| 9.1 | country-name | m | | m | | | |
| 9.2 | administration-domain-name | m | | m | | | |
| 9.3 | private-domain-identifier | o | | o | | | |
| 10 | EncodedInformationTypes | | | | | | |
| 10.1 | built-in-encoded-information-types | m | | m | | | |
| 10.2 | (non-basic parameters) | o | | o | | | |
| 10.3 | extended-encoded-information-types | o | | o | | | |
| 11 | ContentType | | | | | | |
| 11.1 | built-in | o | | o | | | |
| 11.2 | extended | o | | o | | | |
| 12 | PerMessageIndicators | | | | | | |
| 12.1 | disclosure-of-other-recipients | o | | m | | | |
| 12.2 | implicit-conversion-prohibited | m | | m | | | |
| 12.3 | alternate-recipient-allowed | o | | m | | | |
| 12.4 | content-return-request | o | | o | | | |
| 12.5 | reserved | o | | o | | | |
| 12.6 | bit-5 | o | | o | | | |
| 12.7 | bit-6 | o | | o | | | |
| 12.8 | service-message | o | | o | | | |
| 13 | TokenData | | | | | | |
| 13.1 | type | m | | m | | | |
| 13.2 | value | m | | m | | | |
| 14 | MessageGroupNameAndDescriptor | | | | | | |
| 14.1 | message-group-name | m | | m | | | |
| 14.2 | message-group-descriptor | o | | o | | | |

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|------|---------|---------|---------|---------|---------|---------|---------|
| | | **Base** | **Profile** | **Base** | **Profile** | | |
| 15 | AutoActionRegistration | | | | | | |
| 15.1 | auto-action-type | m | | m | | | |
| 15.2 | registration-identifier | o | | o | | | |
| 15.3 | registration-parameter | o | | o | | | |
| 16 | UARegistration | | | | | | |
| 16.1 | ua-registration-identifier | m | | m | | | |
| 16.2 | ua-list-attribute-defaults | o | | o | | | |
| 16.3 | ua-fetch-attribute-defaults | o | | o | | | |
| 16.4 | ua-submission-defaults | o | | o | | | |
| 16.4.1 | object-entry-class | o | | o | | | see A.1.8/5 |
| 16.4.2 | disable-auto-modify | o | | o | | | |
| 16.4.3 | add-message-group-names | o | | o | | | |
| 16.4.4 | ms-submission-extensions | o | | o | | | |
| 16.5 | content-specific-defaults | o | | o | | | |
| 17 | MSSubmissionOptions | | | | | | |
| 17.1 | object-entry-class | o | | o | | | see A.1.8/5 |
| 17.2 | disable-auto-modify | o | | o | | | |
| 17.3 | add-message-group-names | o | | o | | | |
| 17.4 | ms-submission-extensions | o | | o | | | |
| 18 | OrderedAttribute | | | | | | |
| 18.1 | attribute-type | m | | m | | | |
| 18.2 | attribute-values | m | | m | | | |
| 18.2.1 | value | m | | m | | | |
| 18.2.2 | position | m | | m | | | |
| 19 | EntryModification | | | | | | |
| 19.1 | strict | o | | o | | | |
| 19.2 | modification | m | | m | | | |
| 19.2.1 | add-attribute | o | | o | | | |
| 19.2.2 | remove-attribute | o | | o | | | |
| 19.2.3 | add-values | o | | o | | | see A.1.8/18 |
| 19.2.4 | remove-values | o | | o | | | see A.1.8/18 |
| 20 | EncodedInformationTypes Constraints | | | | | | |
| 20.1 | unacceptable-eits | o | | o | | | |
| 20.2 | acceptable-eits | o | | o | | | |
| 20.3 | exclusively-acceptable-eits | o | | o | | | |
| 21 | Restriction | | | | | | |
| 21.1 | permitted | o | | o | | | |
| 21.2 | source-type | o | | o | | | |
| 21.3 | source-name | o | | o | | | |
| 21.3.1 | exact-match | o | | o | | | |
| 21.3.2 | pattern-match | o | | o | | | |

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|---|---|---|---|---|---|---|---|
| | | **Base** | **Profile** | **Base** | **Profile** | | |
| 22 | Certificates | | | | | | |
| 22.1 | userCertificate | m | | m | | | see A.1.8/23 |
| 22.2 | certificationPath | o | | o | | | see A.1.8/23 |
| 23 | Certificate | | | | | | |
| 23.1 | version | o | | o | | | |
| 23.2 | serialNumber | m | | m | | | |
| 23.3 | signature | m | | m | | | |
| 23.4 | issuer | m | | m | | | |
| 23.5 | validity | m | | m | | | |
| 23.6 | subject | m | | m | | | |
| 23.7 | subjectPublicKeyInfo | m | | m | | | |
| 23.8 | issuerUniqueIdentifier | o | | o | | | |
| 23.9 | subjectUniqueIdentifier | o | | o | | | |
| 23.10 | extensions | m | | m | | | |
| 23.10.1 | authorityKeyIdentifier | o | | o | | | |
| 23.10.2 | subjectKeyIdentifier | o | | o | | | |
| 23.10.3 | keyUsage | o | | o | | | |
| 23.10.4 | extKeyUsage | o | | o | | | |
| 23.10.5 | privateKeyUsagePeriod | o | | o | | | |
| 23.10.6 | certificatePolicies | o | | o | | | |
| 23.10.7 | policyMappings | o | | o | | | |
| 23.10.8 | subjectAltName | o | | o | | | |
| 23.10.8.1 | otherName | o | | o | | | |
| 23.10.8.1.1 | mta-name | o | | o | | | |
| 23.10.8.2 | rfc822Name | – | | – | | | |
| 23.10.8.3 | dNSName | – | | – | | | |
| 23.10.8.4 | x400Address | o | | o | | | |
| 23.10.8.5 | directoryName | 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 | | | |
| 23.10.10 | subjectDirectoryAttributes | o | | o | | | |
| 23.10.11 | basicConstraints | o | | o | | | |
| 23.10.12 | nameConstraints | o | | o | | | |
| 23.10.13 | policyConstraints | o | | o | | | |
| 23.10.14 | cRLDistributionPoints | o | | o | | | |
| 24 | CertificateAssertion | | | | | | |
| 24.1 | serialNumber | o | | o | | | |
| 24.2 | issuer | o | | o | | | |

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

4   if Submission-log is supported then m else – (see clause 6.3.7.4 of ITU-T Rec. X.413 | ISO/IEC 10021-5)

5   if Submission and Delivery-log entry-classes are supported then m else – (see clause 6.3.7.4 of ITU-T Rec. X.413 | 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 ITU-T Rec. X.413 | ISO/IEC 10021-5)

## 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 | | | |
| 1.1.1 | standard-extension | m | | m | | | |
| 1.1.2 | private-extension | o | | m | | | |
| 1.2 | criticality | m | | m | | | |
| 1.3 | value | m | | m | | | |
| 2 | MessageOriginAuthentication Check | | | | | | |
| 2.1 | algorithm-identifier | m | | m | | | |
| 2.2 | content | m | | m | | | |
| 2.3 | content-identifier | o | | o | | | |
| 2.4 | message-security-label | o | | o | | | see A.1.9/3 |
| 3 | SecurityLabel | | | | | | |
| 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 | | | |

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|------|---------|---------|---------|---------|---------|---------|------------------|
| | | **Base** | **Profile** | **Base** | **Profile** | | |
| 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 | ProofOfSubmission | | | | | | |
| 6.1 | algorithm-identifier | m | | m | | | |
| 6.2 | message-submission-envelope | m | | m | | | |
| 6.3 | content | m | | m | | | |
| 6.4 | message-submission-identifier | m | | m | | | |
| 6.5 | message-submission-time | m | | m | | | |
| 7 | CertificateSelectors | | | | | | |
| 7.1 | encryption-recipient | o | | o | | | see A.1.8/24 |
| 7.2 | encryption-originator | o | | o | | | see A.1.8/24 |
| 7.3 | content-integrity-check | o | | o | | | see A.1.8/24 |
| 7.4 | token-signature | o | | o | | | see A.1.8/24 |
| 7.5 | message-origin-authentication | o | | o | | | see A.1.8/24 |
| 8 | CertificateSelectorsOverride | | | | | | |
| 8.1 | encryption-recipient | o | | o | | | see A.1.8/24 |
| 8.2 | encryption-originator | o | | o | | | see A.1.8/24 |
| 8.3 | content-integrity-check | o | | o | | | see A.1.8/24 |
| 8.4 | token-signature | o | | o | | | see A.1.8/24 |
| 9 | ExtendedCertificate | | | | | | |
| 9.1 | directory-entry | o | | o | | | |
| 9.2 | certificate | o | | o | | | 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 | | | 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 | | m | | | see A.1.10.6 |
| 5 | unformatted postal OR-address | o | | m | | | see A.1.10.7 |
| 6 | directory-name | o | | 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 | | o | | | see A.1.10.3 |
| 2 | numeric OR-address | o | | o | | | see A.1.10.4 |
| 3 | terminal OR-address | o | | o | | | see A.1.10.5 |
| 4 | formatted postal OR-address | – | | – | | | |
| 5 | unformatted postal OR-address | – | | – | | | |
| 6 | directory-name | o | | o | | | |

#### 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 | | | |
| 1.1 | country-name | m | | m | | | |
| 1.2 | administration-domain-name | m | | m | | | |
| 1.3 | private-domain-name | o | | m | | | |
| 1.4 | organization-name | o | | m | | | |
| 1.5 | personal-name | o | | m | | | |
| 1.5.1 | surname | m | | m | | | |
| 1.5.2 | given-name | o | | m | | | |
| 1.5.3 | initials | o | | m | | | |
| 1.5.4 | generation-qualifier | o | | m | | | |
| 1.6 | organizational-unit-names | o | | m | | | |
| 2 | built-in-domain-defined-attributes | o | | c[1] | | | |
| 3 | extension-attributes | o | | m | | | |
| 3.1 | common-name | o | | m | | | |
| 3.2 | teletex-common-name | o | | m | | | |
| 3.3 | universal-common-name | o | | m | | | see A.1.10.8 |
| 3.4 | teletex-organization-name | o | | m | | | |

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|---|---|---|---|---|---|---|---|
| | | **Base** | **Profile** | **Base** | **Profile** | | |
| 3.5 | universal-organization-name | o | | m | | | see A.1.10.8 |
| 3.6 | teletex-personal-name | o | | m | | | |
| 3.6.1 | surname | m | | m | | | |
| 3.6.2 | given-name | o | | m | | | |
| 3.6.3 | initials | o | | m | | | |
| 3.6.4 | generation-qualifier | o | | m | | | |
| 3.7 | universal-personal-name | o | | m | | | |
| 3.7.1 | surname | m | | m | | | see A.1.10.8 |
| 3.7.2 | given-name | o | | m | | | see A.1.10.8 |
| 3.7.3 | initials | o | | m | | | see A.1.10.8 |
| 3.7.4 | generation-qualifier | o | | m | | | see A.1.10.8 |
| 3.8 | teletex-organizational-unit-names | o | | m | | | |
| 3.9 | universal-organizational-unit-names | o | | m | | | see A.1.10.8 |
| 3.10 | teletex-domain-defined-attributes | o | | $c^1$ | | | |
| 3.11 | universal-domain-defined-attributes | o | | $c^1$ | | | see A.1.10.8 |
| 1     if the mnemonic OR-address form is considered in the context of local MS-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 | | | |
| 1.1 | country-name | m | | m | | | |
| 1.2 | administration-domain-name | m | | m | | | |
| 1.3 | private-domain-name | o | | m | | | |
| 1.4 | numeric-user-identifier | m | | m | | | |
| 2 | built-in-domain-defined-attributes | o | | $c^1$ | | | |
| 3 | extension-attributes | o | | m | | | |
| 3.1 | teletex-domain-defined-attributes | o | | $c^1$ | | | |
| 3.2 | universal-domain-defined-attributes | o | | $c^1$ | | | see A.1.10.8 |
| 1     if the Numeric OR-address form is considered in the context of local MS-user identification then o else m ||||||||

### 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 | | | |
| 1.1 | country-name | o | | m | | | |
| 1.2 | administration-domain-name | o | | m | | | |
| 1.3 | network-address | m | | m | | | |
| 1.4 | terminal-identifier | o | | m | | | |
| 1.5 | private-domain-name | o | | m | | | |

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|------|---------|---------|---------|------|---------|---------|------------------|
| | | Base | Profile | Base | Profile | | |
| 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 | | c[1] | | | |
| 3 | extension-attributes | o | | m | | | |
| 3.1 | extended-network-address | m | | m | | | |
| 3.1.1 | e163-4-address | o | | m | | | |
| 3.1.2 | psap-address | o | | m | | | |
| 3.2 | terminal-type | o | | m | | | |
| 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 |
| 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 | | c[1] | | | |
| 3.15 | universal-domain-defined-attributes | o | | c[1] | | | see A.1.10.8 |
| 1     if the terminal OR-address form is considered in the context of local MS-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 | | | |
| 1.1 | country-name | m | | m | | | |
| 1.2 | administration-domain-name | m | | m | | | |
| 1.3 | private-domain-name | o | | m | | | |
| 2 | extension-attributes | m | | m | | | |
| 2.1 | physical-delivery-country-name | m | | m | | | |
| 2.2 | physical-delivery-office-name | o | | m | | | |
| 2.3 | universal-physical-delivery-office-name | o | | m | | | see A.1.10.8 |
| 2.4 | physical-delivery-office-number | o | | m | | | |
| 2.5 | universal-physical-delivery-office-number | o | | m | | | see A.1.10.8 |
| 2.6 | physical-delivery-organization-name | o | | m | | | |

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|-------|---------|---------|---------|------|---------|---------|------------------|
| | | Base | Profile | Base | Profile | | |
| 2.7 | universal-physical-delivery-organization-name | o | | m | | | see A.1.10.8 |
| 2.8 | physical-delivery-personal-name | o | | m | | | |
| 2.9 | universal-physical-delivery-personal-name | o | | m | | | see A.1.10.8 |
| 2.10 | postal-code | m | | m | | | |
| 2.11 | poste-restante-address | o | | m | | | |
| 2.12 | universal-poste-restante-address | o | | m | | | see A.1.10.8 |
| 2.13 | post-office-box-address | o | | m | | | |
| 2.14 | universal-post-office-box-address | o | | m | | | see A.1.10.8 |
| 2.15 | pds-name | o | | m | | | |
| 2.16 | street-address | o | | m | | | |
| 2.17 | universal-street-address | o | | m | | | see A.1.10.8 |
| 2.18 | unique-postal-name | o | | m | | | |
| 2.19 | universal-unique-postal-name | o | | m | | | see A.1.10.8 |
| 2.20 | extension-OR-address-components | o | | m | | | |
| 2.21 | universal-extension-OR-address-components | o | | m | | | see A.1.10.8 |
| 2.22 | extension-physical-delivery-address-components | o | | m | | | |
| 2.23 | universal-extension-physical-delivery-address-components | o | | m | | | see A.1.10.8 |
| 2.24 | local-postal-attributes | o | | m | | | |
| 2.25 | universal-local-postal-attributes | o | | 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 | | | |
| 1.1 | country-name | m | | m | | | |
| 1.2 | administration-domain-name | m | | m | | | |
| 1.3 | private-domain-name | o | | m | | | |
| 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 | | 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 | | | |
| 1.1.2 | four-octets | m | | m | | | |
| 1.2 | iso-639-language-code | o | | o | | | |

### A.1.11    Token types

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|---|---|---|---|---|---|---|---|
| | | **Base** | **Profile** | **Base** | **Profile** | | |
| 1 | asymmetric-token | o | | o | | | |
| 1.1 | signature-algorithm-identifier | m | | m | | | |
| 1.2 | name | m | | m | | | |
| 1.2.1 | recipient-name | m | | m | | | |
| 1.2.2 | mta | – | | – | | | |
| 1.3 | time | m | | m | | | |
| 1.4 | signed-data | o | | o | | | |
| 1.5 | encryption-algorithm-identifier | o | | o | | | |
| 1.6 | encrypted-data | 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 | | | see A.1.12.2 |
| 2 | auto-modify | o | | o | | | see A.1.12.3 |
| 3 | auto-correlate-reports | o | | o | | | |
| 4 | auto-delete | o | | o | | | |

### A.1.12.2  AutoAlertRegistrationParameter

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

### A.1.12.3 AutoModifyRegistrationParameter

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

## 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 | | | |
| 2 | AC-report-subject-entry | o | | o | | | |
| 3 | AC-report-summary | o | | o | | | |
| 4 | AC-uncorrelated-report-list | o | | o | | | |
| 5 | certificate-selectors | o | | o | | | see A.1.9/7 |
| 6 | child-sequence-numbers | o | | m | | | |
| 7 | content | o | | m | | | |
| 8 | content-confidentiality-algorithm-identifier | o | | o | | | |
| 9 | content-correlator | o | | o | | | |
| 10 | content-identifier | o | | o | | | |
| 11 | content-integrity-check | o | | o | | | |
| 12 | content-length | o | | o | | | |
| 13 | content-returned | o | | o | | | |
| 14 | content-type | o | | m | | | |
| 15 | conversion-with-loss-prohibited | o | | o | | | |
| 16 | converted-EITs | o | | o | | | |
| 17 | creation-time | o | | m | | | |
| 18 | deferred-delivery-cancellation-time | o | | o | | | |
| 19 | deferred-delivery-time | o | | o | | | |
| 20 | delivered-EITs | o | | o | | | |
| 21 | delivery-flags | o | | o | | | |
| 22 | dl-exempted-recipients | o | | o | | | |
| 23 | dl-expansion-history | o | | o | | | |
| 24 | dl-expansion-prohibited | o | | o | | | |
| 25 | entry-type | o | | m | | | |
| 26 | internal-trace-information | o | | o | | | |
| 27 | latest-delivery-time | o | | o | | | |
| 28 | locally-originated | o | | o | | | |
| 29 | marked-for-deletion | o[2] | | o[2] | | | |

| Ref. | Attribute | MS-user | | MS | | Support | Notes/References |
|------|-----------|---------|---------|------|---------|---------|------------------|
| | | **Base** | **Profile** | **Base** | **Profile** | | |
| 30 | message-delivery-envelope | o | | m | | | |
| 31 | message-delivery-time | o | | o | | | |
| 32 | message-group-name | o$^2$ | | o$^2$ | | | |
| 33 | message-identifier | o | | o | | | |
| 34 | message-notes | o$^2$ | | o$^2$ | | | |
| 35 | message-origin-authentication-check | o | | o | | | |
| 36 | message-security-label | o | | o | | | |
| 37 | message-submission-envelope | o | | m | | | |
| 38 | message-submission-time | o | | o | | | |
| 39 | message-token | o | | o | | | |
| 40 | ms-originated | o | | o | | | |
| 41 | ms-submission-error | o | | o | | | |
| 42 | multiple-originator-certificates | o | | o | | | see A.1.9/9 |
| 43 | original-EITs | o | | o | | | |
| 44 | originally-intended-recipient-name | o | | o | | | |
| 45 | originating-MTA-certificate | o | | o | | | see A.1.8/22 |
| 46 | originating-MTA-certificate-selector | o | | o | | | see A.1.8/24 |
| 47 | originator-certificate | o | | o | | | see A.1.8/22 |
| 48 | originator-name | o | | o | | | |
| 49 | originator-report-request | o | | o | | | |
| 50 | originator-return-address | o | | o | | | |
| 51 | other-recipient-names | o | | o | | | |
| 52 | parent-sequence-number | o | | m | | | |
| 53 | per-message-indicators | o | | o | | | |
| 54 | per-recipient-message-submission-fields | o | | o | | | |
| 55 | per-recipient-probe-submission-fields | o | | o | | | |
| 56 | per-recipient-report-delivery-fields | o | | m | | | |
| 57 | priority | o | | o | | | |
| 58 | probe-origin-authentication-check | o | | o | | | |
| 59 | probe-submission-envelope | o | | o | | | |
| 60 | proof-of-delivery-request | o | | o | | | |
| 61 | proof-of-submission | o | | o | | | |
| 62 | recipient-certificate | o | | o | | | see A.1.8/22 |
| 63 | recipient-names | o | | o | | | |
| 64 | recipient-reassignment-prohibited | o | | o | | | |
| 65 | redirection-history | o | | o | | | |
| 66 | report-delivery-envelope | o | | m | | | |
| 67 | report-origin-authentication-check | o | | o | | | |
| 68 | reporting-DL-name | o | | o | | | |
| 69 | reporting-MTA-certificate | o | | o | | | see A.1.8/22 |

| Ref. | Attribute | MS-user | | MS | | Support | Notes/References |
|------|-----------|---------|---------|------|---------|---------|------------------|
| | | **Base** | **Profile** | **Base** | **Profile** | | |
| 70 | retrieval-status | o | | m | | | |
| 71 | security-classification | o | | o | | | |
| 72 | sequence-number | o | | m | | | |
| 73 | signature-verification-status | o | | o | | | |
| 74 | storage-period | $o^2$ | | $o^2$ | | | |
| 75 | storage-time | $o^2$ | | $o^2$ | | | |
| 76 | subject-submission-identifier | o | | m | | | |
| 77 | this-recipient-name | o | | o | | | |
| 78 | trace-information | o | | o | | | |
| 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 | | $c^2$ | | | |
| 2 | AC-report-subject-entry | o | | $c^2$ | | | |
| 3 | AC-report-summary | o | | $c^2$ | | | |
| 4 | AC-uncorrelated-report-list | o | | $c^2$ | | | |
| 5 | certificate-selectors | o | | $c^2$ | | | |
| 6 | child-sequence-numbers | o | | m | | | |
| 7 | content-confidentiality-algorithm-identifier | o | | $c^2$ | | | |
| 8 | content-correlator | o | | $c^2$ | | | |
| 9 | content-identifier | o | | $c^2$ | | | |
| 10 | content-integrity-check | o | | $c^2$ | | | |
| 11 | content-length | o | | $c^2$ | | | |
| 12 | content-returned | o | | $c^2$ | | | |
| 13 | content-type | m | | m | | | |
| 14 | conversion-with-loss-prohibited | o | | $c^2$ | | | |
| 15 | converted-EITs | o | | $c^2$ | | | |
| 16 | creation-time | o | | m | | | |
| 17 | deferred-delivery-cancellation-time | o | | $c^2$ | | | |
| 18 | deferred-delivery-time | o | | $c^2$ | | | |
| 19 | deletion-time | m | | m | | | |
| 20 | delivered-EITs | o | | $c^2$ | | | |
| 21 | delivery-flags | o | | $c^2$ | | | |
| 22 | dl-exempted-recipients | o | | $c^2$ | | | |

| Ref. | Attribute | MS-user | | MS | | Support | Notes/References |
|------|-----------|---------|---------|------|---------|---------|------------------|
| | | Base | Profile | Base | Profile | | |
| 23 | dl-expansion-history | o | | $c^2$ | | | |
| 24 | dl-expansion-prohibited | o | | $c^2$ | | | |
| 25 | entry-type | o | | m | | | |
| 26 | internal-trace-information | o | | $c^2$ | | | |
| 27 | latest-delivery-time | o | | $c^2$ | | | |
| 28 | locally-originated | o | | $c^2$ | | | |
| 29 | marked-for-deletion | o | | $c^2$ | | | see Note |
| 30 | message-delivery-time | o | | $c^2$ | | | |
| 31 | message-group-name | o | | $c^2$ | | | see Note |
| 32 | message-identifier | o | | $c^2$ | | | |
| 33 | message-notes | o | | $c^2$ | | | see Note |
| 34 | message-origin-authentication-check | o | | $c^2$ | | | |
| 35 | message-security-label | o | | $c^2$ | | | |
| 36 | message-submission-time | o | | $c^2$ | | | |
| 37 | message-token | o | | $c^2$ | | | |
| 38 | ms-originated | o | | $c^2$ | | | |
| 39 | ms-submission-error | o | | $c^2$ | | | |
| 40 | multiple-originator-certificates | o | | $c^2$ | | | |
| 41 | original-EITs | o | | $c^2$ | | | |
| 42 | originally-intended-recipient-name | o | | $c^2$ | | | |
| 43 | originating-MTA-certificate | o | | $c^2$ | | | see A.1.8/22 |
| 44 | originating-MTA-certificate-selector | o | | $c^2$ | | | |
| 45 | originator-certificate | o | | $c^2$ | | | see A.1.8/22 |
| 46 | originator-name | o | | $c^2$ | | | |
| 47 | originator-report-request | o | | $c^2$ | | | |
| 48 | originator-return-address | o | | $c^2$ | | | |
| 49 | other-recipient-names | o | | $c^2$ | | | |
| 50 | parent-sequence-number | o | | m | | | |
| 51 | per-message-indicators | o | | $c^2$ | | | |
| 52 | per-recipient-message-submission-fields | o | | $c^2$ | | | |
| 53 | per-recipient-probe-submission-fields | o | | $c^2$ | | | |
| 54 | per-recipient-report-delivery-fields | o | | m | | | |
| 55 | priority | o | | $c^2$ | | | |
| 56 | probe-origin-authentication-check | o | | $c^2$ | | | |
| 57 | probe-submission-envelope | o | | $c^2$ | | | |
| 58 | proof-of-delivery-request | o | | $c^2$ | | | |
| 59 | proof-of-submission | o | | $c^2$ | | | |
| 60 | recipient-certificate | o | | $c^2$ | | | |
| 61 | recipient-names | o | | $c^2$ | | | |
| 62 | recipient-reassignment-prohibited | o | | $c^2$ | | | |

| Ref. | Attribute | MS-user | | MS | | Support | Notes/References |
|---|---|---|---|---|---|---|---|
| | | Base | Profile | Base | Profile | | |
| 63 | redirection-history | o | | $c^2$ | | | |
| 64 | report-origin-authentication-check | o | | $c^2$ | | | |
| 65 | reporting-DL-name | o | | $c^2$ | | | |
| 66 | reporting-MTA-certificate | o | | $c^2$ | | | see A.1.8/22 |
| 67 | retrieval-status | m | | m | | | |
| 68 | security-classification | o | | $c^2$ | | | |
| 69 | sequence-number | m | | m | | | |
| 70 | signature-verification-status | o | | $c^2$ | | | |
| 71 | storage-period | o | | $c^2$ | | | see Note |
| 72 | storage-time | o | | $c^2$ | | | see Note |
| 73 | subject-submission-identifier | o | | m | | | |
| 74 | this-recipient-name | o | | $c^2$ | | | |
| 75 | trace-information | o | | $c^2$ | | | |
| 2    if supported in the corresponding Stored-message subordinate entry-class then o else – <br> NOTE – If this attribute is supported then the Modify abstract-operation and/or the auto-modify auto-action shall be supported. | | | | | | | |

### 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 | | | |
| 2 | auto-action-registration-identifier | o | | m | | | |
| 3 | auto-action-subject-entry | o | | m | | | |
| 4 | auto-action-type | o | | m | | | |
| 5 | content-type | o | | m | | | |
| 6 | creation-time | o | | m | | | |
| 7 | entry-type | o | | m | | | |
| 8 | retrieval-status | o | | m | | | |
| 9 | sequence-number | o | | m | | | |

## 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 | | | |
| 2 | booleanMatch | o | | o | | | |
| 3 | contentIdentifierMatch | o | | o | | | |
| 4 | integerMatch | o | | m | | | |
| 5 | integerOrderingMatch | o | | m | | | |
| 6 | mSStringCaseSensitiveMatch | o | | o | | | |
| 7 | objectIdentifierMatch | o | | m | | | |
| 8 | uTCTimeMatch | o | | m | | | |
| 9 | uTCTimeOrderingMatch | o | | m | | | |
| 10 | contentCorrelatorMatch | o | | o | | | |
| 11 | mSSingleSubstringMatch | i | | i | | | see Note |
| 12 | mSStringListElementsMatch | o | | o | | | |
| 13 | mSStringListMatch | o | | o | | | |
| 14 | mSStringMatch | o | | o | | | |
| 15 | mSStringOrderingMatch | i | | i | | | see Note |
| 16 | mSSingleSubstringListElements Match | o | | o | | | |
| 17 | mSSingleSubstringListMatch | o | | o | | | |
| 18 | mSSubstringsMatch | o | | o | | | |
| 19 | mTSIdentifierMatch | o | | o | | | |
| 20 | oRAddressElementsMatch | o | | o | | | |
| 21 | oRAddressMatch | o | | o | | | |
| 22 | oRAddressSubstringElements Match | o | | o | | | |
| 23 | oRNameElementsMatch | o | | o | | | |
| 24 | oRNameMatch | o | | o | | | |
| 25 | oRNameSingleElementMatch | o | | o | | | |
| 26 | oRNameSubstringElementsMatch | o | | o | | | |
| 27 | redirectionOrDLExpansion ElementsMatch | o | | o | | | |
| 28 | redirectionOrDLExpansionMatch | o | | o | | | |
| 29 | redirectionOrDLExpansionSingle ElementMatch | o | | o | | | |
| 30 | redirectionOrDLExpansion SubstringElementsMatch | o | | o | | | |
| 31 | redirectionReasonMatch | o | | o | | | |
| 32 | valueCountMatch | o | | o | | | |
| NOTE – 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. | | | | | | | |

## 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 ISP 10611-6.

## 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.

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 Attributes | Comments |
|------|--------------|-----------|-----------|---------------------|----------|
| | | **Submission** | **Retrieval** | | |
| 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) | | | | |
| NOTE 1 – The IPM subject attribute shall be supported, in addition to the IPM specific base standard support requirements of MS attributes. | | | | | |
| NOTE 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.

| 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) | | | |
| 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.

| Ref. | Constraint | Limit | Comments |
|------|-----------|-------|----------|
| 1 | limit on message size (if any) (Note 1) | | |
| 2 | limit on the number of recipients that may be specified in a message envelope (if any) (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 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 | |

| Ref. | Attribute | Comments |
|---|---|---|
| 11 | content-integrity-check | |
| 12 | content-length | |
| 13 | content-returned | |
| 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 | |
| 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 | |

| Ref. | Attribute | Comments |
|------|-----------|----------|
| 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 | |
| 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 | |

| 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 | |
| 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 | |

| Ref. | Attribute | Comments |
|---|---|---|
| 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 | |
| 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 | |

**PICS Proforma for MS 88 Access (P7)**

(This annex forms an integral part of this Recommendation)

**Contents of the PICS proforma**

Subclause B.1 specifies the basic requirements for conformance to this Recommendation. Subclause B.2 is allocated but not used, it is present to keep the numbering alignment with the corresponding ISP. Subclause B.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 10611-5, "Information technology – International Standardized Profiles AMH1n – Message Handling Systems – Common Messaging – Part 5: AMH13 - MS Access (P7)".

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[3]    **Copyright release for PICS proformas**

    Users of this Recommendation may freely reproduce the PICS proforma in this annex so that it can be used for its intended purpose and may further publish the completed PICS.

## B.0 Instructions and identification

### B.0.1 Instructions

#### B.0.1.1 Purpose of the proforma

The purpose of the PICS proforma is to provide suppliers of implementations of the P7 protocol with a consistent means of stating which proforma has been implemented.

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 an 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.

#### B.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.

#### B.0.1.3 Base column

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

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. 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 in B.3.5). The way in which attribute values are stored by an MS implementation, or used by an 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 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.

#### B.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).

### B.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.

### B.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.484

| |
|---|
| Cor.: |
| Cor.: |
| Cor.: |
| Cor.: |
| Implementors' Guide version: |

### B.0.3    Identification of the implementation

### B.0.3.1    Date of statement

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

### B.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 | |

### B.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 | |

### B.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) | 1988 version |
| 3 | Addenda/amendments/corrigenda implemented | |
| 4 | MHS Implementors' Guide version implemented | |

### B.0.3.5　Type of implementation

| Ref. | Implementation Type | Response |
|---|---|---|
| 1 | MS-user (UA) | |
| 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.

### B.0.3.6　Global statement of conformance

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

## B.1　Basic requirements

### B.1.1　Supported application contexts

| Ref. | Application Context | MS-user | | MS | | Support | Notes/References |
|---|---|---|---|---|---|---|---|
| | | Base | Profile | Base | Profile | | |
| 1 | ms-access | m | | m | | | |
| 2 | ms-reliable-access | o | | o | | | |

### B.1.2 Supported operations

#### B.1.2.1 Bind and Unbind

| Ref. | Operation | MS-user | | MS | | Support | Notes/References |
|------|-----------|---------|---------|------|---------|---------|-------------------|
| | | Base | Profile | Base | Profile | | |
| 1 | MSBind | m | | m | | | see B.1.3.1 |
| 2 | MSUnbind | m | | m | | | |

#### B.1.2.2 Message Submission Service Element (MSSE)

| Ref. | Operation | MS-user | | MS | | Support | Notes/References |
|------|-----------|---------|---------|------|---------|---------|-------------------|
| | | Base | Profile | Base | Profile | | |
| 1 | MessageSubmission | m | | m | | | see B.1.3.2 |
| 2 | ProbeSubmission | o | | m | | | see B.1.3.3 |
| 3 | CancelDeferredDelivery | o | | m | | | see B.1.3.4 |
| 4 | SubmissionControl | o | | o | | | see B.1.3.5 |

#### B.1.2.3 Message Retrieval Service Element (MRSE)

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

#### B.1.2.4 Message Administration Service Element (MASE)

| Ref. | Operation | MS-user | | MS | | Support | Notes/References |
|------|-----------|---------|---------|------|---------|---------|-------------------|
| | | Base | Profile | Base | Profile | | |
| 1 | Register | o | | o | | | see B.1.3.12 |
| 2 | ChangeCredentials (MTA to MS) | – | | o | | | see B.1.3.13 |
| 3 | ChangeCredentials (MS-user to MTA via MS) | o | | o | | | see B.1.3.13 |

NOTE 1 – The first edition of the base standard erroneously defines the ChangeCredentials (MTA to UA) operation in the context of P7. It is removed in the second and subsequent editions of the base standard.

NOTE 2 – 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.

### B.1.3    Operation arguments/results

### B.1.3.1    MSBind

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|---|---|---|---|---|---|---|---|
| | | Base | Profile | Base | Profile | | |
| 1 | ARGUMENT | | | | | | |
| 1.1 | initiator-name | m | | m | | | |
| 1.2 | initiator-credentials | m | | m | | | |
| 1.2.1 | simple | m | | m | | | |
| 1.2.1.1 | IA5String | o | | m | | | |
| 1.2.1.2 | OCTET STRING | o | | m | | | |
| 1.2.2 | strong | o | | o | | | |
| 1.2.2.1 | bind-token | m | | m | | | |
| 1.2.2.1.1 | signature-algorithm-identifier | m | | m | | | |
| 1.2.2.1.2 | name | m | | m | | | |
| 1.2.2.1.2.1 | recipient-name | m | | m | | | |
| 1.2.2.1.2.2 | mta | – | | – | | | |
| 1.2.2.1.3 | time | m | | m | | | |
| 1.2.2.1.4 | signed-data | o | | o | | | |
| 1.2.2.1.5 | encryption-algorithm-identifier | o | | o | | | |
| 1.2.2.1.6 | encrypted-data | o | | o | | | |
| 1.2.2.2 | certificate | o | | o | | | see B.1.8/13 |
| 1.2.2.3 | certificate-selector | o | | o | | | see B.1.8/15 |
| 1.3 | security-context | o | | o | | | see B.1.9/3 |
| 1.4 | fetch-restrictions | o | | o | | | |
| 1.4.1 | allowed-content-types | o | | o | | | |
| 1.4.2 | allowed-EITs | o | | o | | | |
| 1.4.3 | maximum-content-length | o | | o | | | |
| 1.5 | ms-configuration-request | o | | o | | | |
| 2 | RESULT | | | | | | |
| 2.1 | responder-credentials | m | | m | | | |
| 2.1.1 | simple | m | | m | | | |
| 2.1.1.1 | IA5String | m | | o | | | |
| 2.1.1.2 | OCTET STRING | m | | o | | | |
| 2.1.2 | strong | o | | o | | | |
| 2.1.2.1 | bind-token | m | | m | | | |
| 2.1.2.1.1 | signature-algorithm-identifier | m | | m | | | |
| 2.1.2.1.2 | name | m | | m | | | |
| 2.1.2.1.2.1 | recipient-name | m | | m | | | |
| 2.1.2.1.2.2 | mta | – | | – | | | |
| 2.1.2.1.3 | time | m | | m | | | |
| 2.1.2.1.4 | signed-data | o | | o | | | |

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|------|---------|---------|---------|------|---------|---------|------------------|
| | | Base | Profile | Base | Profile | | |
| 2.1.2.1.5 | encryption-algorithm-identifier | o | | o | | | |
| 2.1.2.1.6 | encrypted-data | o | | o | | | |
| 2.1.2.2 | certificate | o | | o | | | see B.1.8/13 |
| 2.1.2.3 | certificate-selector | o | | o | | | see B.1.8/15 |
| 2.2 | available-auto-actions | o | | m | | | |
| 2.2.1 | auto-alert | o | | o | | | |
| 2.2.2 | auto-forward | o | | o | | | |
| 2.3 | available-attribute-types | o | | m | | | |
| 2.4 | alert-indication | o | | o | | | |
| 2.5 | content-types-supported | o | | m | | | |

### B.1.3.2  MessageSubmission

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|------|---------|---------|---------|------|---------|---------|------------------|
| | | Base | Profile | Base | Profile | | |
| 1 | ARGUMENT | | | | | | |
| 1.1 | envelope | m | | m | | | see B.1.4 |
| 1.2 | content | m | | m | | | |
| 2 | RESULT | | | | | | |
| 2.1 | message-submission-identifier | m | | m | | | see B.1.8/8 |
| 2.2 | message-submission-time | m | | m | | | |
| 2.3 | content-identifier | o | | m | | | |
| 2.4 | extensions | m | | m | | | see B.1.9/1 |
| 2.4.1 | originating-MTA-certificate | o | | o | | | see B.1.8/13 |
| 2.4.2 | proof-of-submission | o | | o | | | see B.1.9/6 |
| 2.4.3 | originating-MTA-certificate-selector | o | | o | | | see B.1.8/15 |

### B.1.3.3  ProbeSubmission

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|------|---------|---------|---------|------|---------|---------|------------------|
| | | Base | Profile | Base | Profile | | |
| 1 | ARGUMENT | | | | | | |
| 1.1 | envelope | m | | m | | | see B.1.5 |
| 2 | RESULT | | | | | | |
| 2.1 | probe-submission-identifier | m | | m | | | see B.1.8/8 |
| 2.2 | probe-submission-time | m | | m | | | |
| 2.3 | content-identifier | o | | m | | | |

### B.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 | | | see B.1.8/8 |
| 2 | RESULT | | | | | | |
| 2.1 | NULL | m | | m | | | |

### B.1.3.5 SubmissionControl

| Ref. | Element | MS-user | | MS | | 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 B.1.9/3 |
| 2 | RESULT | | | | | | |
| 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 B.1.8/10 |

### B.1.3.6 Summarize

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|------|---------|---------|---------|------|---------|---------|------------------|
| | | Base | Profile | Base | Profile | | |
| 1 | ARGUMENT | | | | | | |
| 1.1 | information-base-type | o | | m | | | see B.1.8/5 |
| 1.2 | selector | m | | m | | | see B.1.8/7 |
| 1.3 | summary-requests | o | | m | | | |
| 2 | RESULT | | | | | | |
| 2.1 | next | o | | m | | | |
| 2.2 | count | m | | m | | | |
| 2.3 | span | m | | m | | | |
| 2.4 | summaries | o | | m | | | |
| 2.4.1 | absent | m | | m | | | |
| 2.4.2 | present | m | | m | | | |
| 2.4.2.1 | type | m | | m | | | |
| 2.4.2.2 | value | m | | m | | | |
| 2.4.2.3 | count | m | | m | | | |

### B.1.3.7   List

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|------|---------|---------|---------|------|---------|---------|------------------|
| | | Base | Profile | Base | Profile | | |
| 1 | ARGUMENT | | | | | | |
| 1.1 | information-base-type | o | | m | | | see B.1.8/5 |
| 1.2 | selector | m | | m | | | see B.1.8/7 |
| 1.3 | requested-attributes | m | | m | | | see B.1.8/1 |
| 2 | RESULT | | | | | | |
| 2.1 | next | m | | m | | | |
| 2.2 | requested | m | | m | | | see B.1.8/2 |

### B.1.3.8   Fetch

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|------|---------|---------|---------|------|---------|---------|------------------|
| | | Base | Profile | Base | Profile | | |
| 1 | ARGUMENT | | | | | | |
| 1.1 | information-base-type | o | | m | | | see B.1.8/5 |
| 1.2 | item | m | | m | | | |
| 1.2.1 | search | o | | o | | | see B.1.8/7 |
| 1.2.2 | precise | o | | o | | | |
| 1.3 | requested-attributes | m | | m | | | see B.1.8/1 |
| 2 | RESULT | | | | | | |
| 2.1 | entry-information | m | | m | | | see B.1.8/2 |
| 2.2 | list | o | | o | | | |
| 2.3 | next | o | | o | | | |

### B.1.3.9   Delete

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|------|---------|---------|---------|------|---------|---------|------------------|
| | | Base | Profile | Base | Profile | | |
| 1 | ARGUMENT | | | | | | |
| 1.1 | information-base-type | o | | m | | | see B.1.8/5 |
| 1.2 | items | m | | m | | | |
| 1.2.1 | selector | o | | m | | | see B.1.8/7 |
| 1.2.2 | sequence-numbers | o | | m | | | |
| 2 | RESULT | | | | | | |
| 2.1 | NULL | m | | m | | | |

### B.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 | | | see B.1.12 |
| 1.2 | auto-action-deregistrations | o | | o | | | |
| 1.3 | list-attribute-defaults | o | | o | | | |
| 1.4 | fetch-attribute-defaults | o | | o | | | |
| 1.5 | change-credentials | m | | m | | | |
| 1.5.1 | old-credentials | m | | m | | | |
| 1.5.1.1 | simple | m | | m | | | |
| 1.5.1.1.1 | ia5-String | o | | m | | | |
| 1.5.1.1.2 | octet-string | o | | m | | | |
| 1.5.2 | new-credentials | m | | m | | | |
| 1.5.2.1 | simple | m | | m | | | |
| 1.5.2.1.1 | ia5-String | o | | m | | | |
| 1.5.2.1.2 | octet-string | o | | m | | | |
| 1.6 | user-security-labels | o | | o | | | see B.1.9/3 |
| 2 | RESULT | | | | | | |
| 2.1 | NULL | m | | m | | | |

### B.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 | | | |
| 1.2 | new-entry | o | | m | | | see B.1.8/2 |
| 2 | RESULT | | | | | | |
| 2.1 | NULL | m | | m | | | |

### B.1.3.12 Register

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|------|---------|---------|---------|------|---------|---------|------------------|
| | | Base | Profile | Base | Profile | | |
| 1 | ARGUMENT | | | | | | |
| 1.1 | user-name | o | | o | | | see B.1.10.2 |
| 1.2 | user-address | o | | o | | | |
| 1.3 | deliverable-encoded-information-types | o | | o | | | see B.1.8/10 |
| 1.4 | deliverable-maximum-content-length | o | | o | | | |
| 1.5 | default-delivery-controls | o | | o | | | |
| 1.5.1 | restrict | o | | o | | | |

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|------|---------|---------|---------|------|---------|---------|------------------|
| | | Base | Profile | Base | Profile | | |
| 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 B.1.8/10 |
| 1.6 | deliverable-content-types | o | | o | | | |
| 1.7 | labels-and-redirections | o | | o | | | |
| 1.7.1 | user-security-label | o | | o | | | see B.1.9/3 |
| 1.7.2 | recipient-assigned-alternate-recipient | o | | o | | | |
| 2 | RESULT | | | | | | |
| 2.1 | NULL | m | | m | | | |

### B.1.3.13  ChangeCredentials

| Ref. | Element | MS-user | | MS | | 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 | ia5-String | o | | m | | | |
| 1.1.1.2 | octet-string | o | | m | | | |
| 1.2 | new-credentials | m | | m | | | |
| 1.2.1 | simple | m | | m | | | |
| 1.2.1.1 | ia5-String | o | | m | | | |
| 1.2.1.2 | octet-string | o | | m | | | |
| 2 | RESULT | | | | | | |
| 2.1 | NULL | m | | m | | | |

### B.1.4    MessageSubmissionEnvelope

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|------|---------|---------|---------|------|---------|---------|------------------|
| | | Base | Profile | Base | Profile | | |
| 1 | originator-name | m | | m | | | see B.1.10.2 |
| 2 | original-encoded-information-types | m | | m | | | see B.1.8/10 |
| 3 | content-type | m | | m | | | see B.1.8/11 |
| 4 | content-identifier | o | | m | | | |
| 5 | priority | m | | m | | | |
| 6 | per-message-indicators | m | | m | | | see B.1.8/12 |
| 7 | deferred-delivery-time | o | | m | | | |

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|------|---------|---------|---------|------|---------|---------|------------------|
| | | Base | Profile | Base | Profile | | |
| 8 | extensions | m | | m | | | see B.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 | | | |
| 8.5 | originator-return-address | o | | o | | | see B.1.10.1 |
| 8.6 | originator-certificate | o | | o | | | see B.1.8/13 |
| 8.7 | content-confidentiality-algorithm-identifier | o | | o | | | |
| 8.8 | message-origin-authentication-check | o | | o | | | see B.1.9/2 |
| 8.9 | message-security-label | o | | o | | | see B.1.9/3 |
| 8.10 | proof-of-submission-request | o | | o | | | |
| 8.11 | content-correlator | o | | m | | | |
| 8.12 | certificate-selectors | o | | o | | | see B.1.9/7 |
| 8.13 | multiple-originator-certificates | o | | o | | | see B.1.9/9 |
| 8.14 | dl-exempted-recipients | o | | o | | | see B.1.10.1 |
| 8.15 | forwarding-request | o | | o | | | |
| 8.16 | PrivateExtensions | o | | o | | | |
| 9 | per-recipient-fields | m | | m | | | |
| 9.1 | recipient-name | m | | m | | | see B.1.10.1 |
| 9.2 | originator-report-request | m | | m | | | |
| 9.3 | explicit-conversion | o | | o | | | |
| 9.4 | extensions | m | | m | | | see B.1.9/1 |
| 9.4.1 | originator-requested-alternate-recipient | o | | o | | | see B.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 B.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 B.1.9/8 |
| 9.4.14 | recipient-certificate | o | | o | | | see B.1.8/13 |
| 9.4.15 | IPMPerRecipientEnvelope Extensions | o | | o | | | |
| 9.4.16. | PrivateExtensions | o | | o | | | |

### B.1.5 ProbeSubmissionEnvelope

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|------|---------|---------|---------|---------|---------|---------|------------------|
| | | Base | Profile | Base | Profile | | |
| 1 | originator-name | m | | m | | | see B.1.10.2 |
| 2 | original-encoded-information-types | m | | m | | | see B.1.8/10 |
| 3 | content-type | m | | m | | | see B.1.8/11 |
| 4 | content-identifier | o | | m | | | |
| 5 | content-length | o | | m | | | |
| 6 | per-message-indicators | m | | m | | | see B.1.8/12 |
| 7 | extensions | m | | m | | | see B.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 B.1.8/13 |
| 7.5 | message-security-label | o | | o | | | see B.1.9/3 |
| 7.6 | content-correlator | o | | m | | | |
| 7.7 | probe-origin-authentication-check | o | | o | | | see B.1.9/5 |
| 7.8 | certificate-selectors | o | | o | | | see B.1.9/7 |
| 7.9 | PrivateExtensions | o | | o | | | |
| 8 | per-recipient-fields | m | | m | | | |
| 8.1 | recipient-name | m | | m | | | see B.1.10.1 |
| 8.2 | originator-report-request | m | | m | | | |
| 8.3 | explicit-conversion | o | | o | | | |
| 8.4 | extensions | m | | m | | | see B.1.9/1 |
| 8.4.1 | originator-requested-alternate-recipient | o | | o | | | see B.1.10.1 |
| 8.4.2 | requested-delivery-method | o | | o | | | |
| 8.4.3 | physical-rendition-attributes | o | | o | | | |
| 8.4.4 | PrivateExtensions | o | | o | | | |

### B.1.6 AutoForwardRegistrationParameter

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|------|---------|---------|---------|---------|---------|---------|------------------|
| | | Base | Profile | Base | Profile | | |
| 1 | filter | o | | m | | | see B.1.8/3 |
| 2 | auto-forward-arguments | m | | m | | | |
| 2.1 | originator-name | m | | m | | | see B.1.10.2 |
| 2.2 | content-identifier | o | | o | | | |
| 2.3 | priority | o | | o | | | |
| 2.4 | per-message-indicators | o | | m | | | see B.1.8/12 |
| 2.5 | deferred-delivery-time | o | | o | | | |
| 2.6 | extensions | o | | o | | | see B.1.4/8 |
| 2.7 | per-recipient-fields | o | | m | | | see B.1.4/9 |
| 3 | delete-after-auto-forwarding | o | | m | | | |
| 4 | other-parameters | o | | o | | | |

### B.1.7    AutoAlertRegistrationParameter

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|------|---------|---------|---------|------|---------|---------|------------------|
| | | **Base** | **Profile** | **Base** | **Profile** | | |
| 1 | filter | o | | m | | | see B.1.8/3 |
| 2 | alert-addresses | o | | o | | | |
| 2.1 | address | m | | m | | | |
| 2.2 | alert-qualifier | o | | o | | | |
| 3 | requested-attributes | o | | m | | | see B.1.8/1 |

### B.1.8    Common data types

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|------|---------|---------|---------|------|---------|---------|------------------|
| | | **Base** | **Profile** | **Base** | **Profile** | | |
| 1 | AttributeSelection | | | | | | |
| 1.1 | type | m | | m | | | |
| 1.2 | from | o | | m | | | |
| 1.3 | count | o | | m | | | |
| 2 | EntryInformation | | | | | | |
| 2.1 | sequence-number | m | | m | | | |
| 2.2 | attributes | m | | m | | | |
| 3 | Filter | | | | | | |
| 3.1 | item | m | | m | | | see B.1.8/4 |
| 3.2 | and | o | | m | | | |
| 3.3 | or | o | | m | | | |
| 3.4 | not | o | | m | | | |
| 4 | FilterItem | | | | | | |
| 4.1 | equality | o | | m | | | |
| 4.2 | substrings | o | | o | | | |
| 4.2.1 | type | m | | m | | | |
| 4.2.2 | strings | m | | m | | | |
| 4.2.2.1 | initial | o | | m | | | |
| 4.2.2.2 | any | o | | m | | | |
| 4.2.2.3 | final | o | | m | | | |
| 4.3 | greater-or-equal | o | | m | | | |
| 4.4 | less-or-equal | o | | m | | | |
| 4.5 | present | o | | m | | | |
| 4.6 | approximate-match | o | | o | | | |
| 5 | InformationBase | | | | | | |
| 5.1 | stored-messages | m | | m | | | |
| 5.2 | inlog | – | | – | | | |
| 5.3 | outlog | – | | – | | | |

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|---|---|---|---|---|---|---|---|
| | | Base | Profile | Base | Profile | | |
| 6 | Range | | | | | | |
| 6.1 | sequence-number-range | o | | m | | | |
| 6.1.1 | from | o | | m | | | |
| 6.1.2 | to | o | | m | | | |
| 6.2 | creation-time-range | o | | m | | | |
| 6.2.1 | from | o | | m | | | |
| 6.2.2 | to | o | | m | | | |
| 7 | Selector | | | | | | |
| 7.1 | child-entries | o | | m | | | |
| 7.2 | range | o | | m | | | see B.1.8/6 |
| 7.3 | filter | o | | m | | | see B.1.8/3 |
| 7.4 | limit | o | | m | | | |
| 7.5 | override | o | | o | | | |
| 8 | MTSIdentifier | | | | | | |
| 8.1 | global-domain-identifier | m | | m | | | see B.1.8/9 |
| 8.2 | local-identifier | m | | m | | | |
| 9 | GlobalDomainIdentifier | | | | | | |
| 9.1 | country-name | m | | m | | | |
| 9.2 | administration-domain-name | m | | m | | | |
| 9.3 | private-domain-identifier | o | | m | | | |
| 10 | EncodedInformationTypes | | | | | | |
| 10.1 | built-in-encoded-information-types | m | | m | | | |
| 10.2 | (non-basic parameters) | o | | o | | | |
| 10.3 | extended-encoded-information-types | o | | m | | | |
| 11 | ContentType | | | | | | |
| 11.1 | built-in | o | | m | | | |
| 11.2 | extended | o | | m | | | |
| 12 | PerMessageIndicators | | | | | | |
| 12.1 | disclosure-of-other-recipients | o | | m | | | |
| 12.2 | implicit-conversion-prohibited | m | | m | | | |
| 12.3 | alternate-recipient-allowed | o | | m | | | |
| 12.4 | content-return-request | o | | o | | | |
| 12.5 | reserved | o | | o | | | |
| 12.6 | bit-5 | o | | o | | | |
| 12.7 | bit-6 | o | | o | | | |
| 12.8 | service-message | o | | o | | | |
| 13 | Certificates | | | | | | |
| 13.1 | userCertificate | m | | m | | | see B.1.8/14 |
| 13.2 | certificationPath | o | | o | | | see B.1.8/14 |

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|---|---|---|---|---|---|---|---|
| | | Base | Profile | Base | Profile | | |
| 14 | Certificate | | | | | | |
| 14.1 | version | o | | o | | | |
| 14.2 | serialNumber | m | | m | | | |
| 14.3 | signature | m | | m | | | |
| 14.4 | issuer | m | | m | | | |
| 14.5 | validity | m | | m | | | |
| 14.6 | subject | m | | m | | | |
| 14.7 | subjectPublicKeyInfo | m | | m | | | |
| 14.8 | issuerUniqueIdentifier | o | | o | | | |
| 14.9 | subjectUniqueIdentifier | o | | o | | | |
| 14.10 | extensions | m | | m | | | |
| 14.10.1 | authorityKeyIdentifier | o | | o | | | |
| 14.10.2 | subjectKeyIdentifier | o | | o | | | |
| 14.10.3 | keyUsage | o | | o | | | |
| 14.10.4 | extKeyUsage | o | | o | | | |
| 14.10.5 | privateKeyUsagePeriod | o | | o | | | |
| 14.10.6 | certificatePolicies | o | | o | | | |
| 14.10.7 | policyMappings | o | | o | | | |
| 14.10.8 | subjectAltName | o | | o | | | |
| 14.10.8.1 | otherName | o | | o | | | |
| 14.10.8.1.1 | mta-name | o | | o | | | |
| 14.10.8.2 | rfc822Name | – | | – | | | |
| 14.10.8.3 | dNSName | – | | – | | | |
| 14.10.8.4 | x400Address | o | | o | | | |
| 14.10.8.5 | directoryName | o | | o | | | |
| 14.10.8.6 | ediPartyName | – | | – | | | |
| 14.10.8.7 | uniformResourceIdentifier | – | | – | | | |
| 14.10.8.8 | iPAddress | – | | – | | | |
| 14.10.8.9 | registeredID | – | | – | | | |
| 14.10.9 | issuerAltName | o | | o | | | |
| 14.10.10 | subjectDirectoryAttributes | o | | o | | | |
| 14.10.11 | basicConstraints | o | | o | | | |
| 14.10.12 | nameConstraints | o | | o | | | |
| 14.10.13 | policyConstraints | o | | o | | | |
| 14.10.14 | cRLDistributionPoints | o | | o | | | |
| 15 | CertificateAssertion | | | | | | |
| 15.1 | serialNumber | o | | o | | | |
| 15.2 | issuer | o | | o | | | |
| 15.3 | subjectKeyIdentifier | o | | o | | | |
| 15.4 | authorityKeyIdentifier | o | | o | | | |

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|------|---------|---------|---------|------|---------|---------|------------------|
| | | **Base** | **Profile** | **Base** | **Profile** | | |
| 15.5 | certificateValid | o | | o | | | |
| 15.6 | privateKeyValid | o | | o | | | |
| 15.7 | subjectPublicKeyAlgID | o | | o | | | |
| 15.8 | keyUsage | o | | o | | | |
| 15.9 | subjectAltName | o | | o | | | |
| 15.10 | policy | o | | o | | | |
| 15.11 | pathToName | – | | – | | | |

## B.1.9    Extension data types

| Ref. | Element | MS-user | | MS | | 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 | | m | | | see B.3.6 |
| 1.2 | criticality | m | | m | | | |
| 1.3 | value | m | | m | | | |
| 2 | MessageOriginAuthentication Check | | | | | | |
| 2.1 | algorithm-identifier | m | | m | | | |
| 2.2 | content | m | | m | | | |
| 2.3 | content-identifier | o | | o | | | |
| 2.4 | message-security-label | o | | o | | | see B.1.9/3 |
| 3 | MessageSecurityLabel | | | | | | |
| 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 B.1.9/3 |
| 4.2.4.4 | proof-of-delivery-request | o | | o | | | |
| 4.2.4.5. | message-sequence-number | o | | o | | | |

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|---|---|---|---|---|---|---|---|
| | | Base | Profile | Base | Profile | | |
| 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 B.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 B.1.9/3 |
| 6 | ProofOfSubmission | | | | | | |
| 6.1 | algorithm-identifier | m | | m | | | |
| 6.2 | message-submission-envelope | m | | m | | | |
| 6.3 | content | m | | m | | | |
| 6.4 | message-submission-identifier | m | | m | | | |
| 6.5 | message-submission-time | m | | m | | | |
| 7 | CertificateSelectors | | | | | | |
| 7.1 | encryption-recipient | o | | o | | | see B.1.8/15 |
| 7.2 | encryption-originator | o | | o | | | see B.1.8/15 |
| 7.3 | content-integrity-check | o | | o | | | see B.1.8/15 |
| 7.4 | token-signature | o | | o | | | see B.1.8/15 |
| 7.5 | message-origin-authentication | o | | o | | | see B.1.8/15 |
| 8 | CertificateSelectorsOverride | | | | | | |
| 8.1 | encryption-recipient | o | | o | | | see B.1.8/15 |
| 8.2 | encryption-originator | o | | o | | | see B.1.8/15 |
| 8.3 | content-integrity-check | o | | o | | | see B.1.8/15 |
| 8.4 | token-signature | o | | o | | | see B.1.8/15 |
| 9 | ExtendedCertificate | | | | | | |
| 9.1 | directory-entry | o | | o | | | |
| 9.2 | certificate | o | | o | | | see B.1.8/13 |

## B.1.10    OR-names

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

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

### B.1.10.2  OR-name forms for local MS-user authentication

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

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

### B.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 | | | |
| 1.1 | country-name | m | | m | | | |
| 1.2 | administration-domain-name | m | | m | | | |
| 1.3 | private-domain-name | o | | m | | | |
| 1.4 | organization-name | o | | m | | | |
| 1.5 | personal-name | o | | m | | | |
| 1.5.1 | surname | m | | m | | | |
| 1.5.2 | given-name | o | | m | | | |
| 1.5.3 | initials | o | | m | | | |
| 1.5.4 | generation-qualifier | o | | m | | | |
| 1.6 | organizational-unit-names | o | | m | | | |
| 2 | built-in-domain-defined-attributes | o | | c[1] | | | |
| 3 | extension-attributes | o | | m | | | |
| 3.1 | common-name | o | | m | | | |
| 3.2 | teletex-common-name | o | | m | | | |
| 3.3 | universal-common-name | o | | m | | | see B.1.10.8 |
| 3.4 | teletex-organization-name | o | | m | | | |
| 3.5 | universal-organization-name | o | | m | | | see B.1.10.8 |
| 3.6 | teletex-personal-name | o | | m | | | |
| 3.6.1 | surname | m | | m | | | |
| 3.6.2 | given-name | o | | m | | | |
| 3.6.3 | initials | o | | m | | | |
| 3.6.4 | generation-qualifier | o | | m | | | |
| 3.7 | universal-personal-name | o | | m | | | |
| 3.7.1 | surname | m | | m | | | see B.1.10.8 |
| 3.7.2 | given-name | o | | m | | | see B.1.10.8 |
| 3.7.3 | initials | o | | m | | | see B.1.10.8 |
| 3.7.4 | generation-qualifier | o | | m | | | see B.1.10.8 |
| 3.8 | teletex-organizational-unit-names | o | | m | | | |
| 3.9 | universal-organizational-unit-names | o | | m | | | see B.1.10.8 |
| 3.10 | teletex-domain-defined-attributes | o | | c[1] | | | |
| 3.11 | universal-domain-defined-attributes | o | | c[1] | | | see B.1.10.8 |
| 1      if the mnemonic OR-address form is considered in the context of local MS-user identification then o else m | | | | | | | |

### B.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 | | | |
| 1.1 | country-name | m | | m | | | |
| 1.2 | administration-domain-name | m | | m | | | |
| 1.3 | private-domain-name | o | | m | | | |
| 1.4 | numeric-user-identifier | m | | m | | | |
| 2 | built-in-domain-defined-attributes | o | | c[1] | | | |
| 3 | extension-attributes | o | | m | | | |
| 3.1 | teletex-domain-defined-attributes | o | | c[1] | | | |
| 3.2 | universal-domain-defined-attributes | o | | c[1] | | | see B.1.10.8 |
| 1    if the numeric OR-address form is considered in the context of local MS-user identification then o else m ||||||||

### B.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 | | | |
| 1.1 | country-name | o | | m | | | |
| 1.2 | administration-domain-name | o | | m | | | |
| 1.3 | network-address | m | | m | | | |
| 1.4 | terminal-identifier | o | | m | | | |
| 1.5 | private-domain-name | o | | m | | | |
| 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 | | c[1] | | | |
| 3 | extension-attributes | o | | m | | | |
| 3.1 | extended-network-address | m | | m | | | |
| 3.1.1 | e163-4-address | o | | m | | | |
| 3.1.2 | psap-address | o | | m | | | |
| 3.2 | terminal-type | o | | m | | | |
| 3.3 | common-name | o | | o | | | |
| 3.4 | teletex-common-name | o | | o | | | |
| 3.5 | universal-common-name | o | | o | | | see B.1.10.8 |
| 3.6 | teletex-organization-name | o | | o | | | |
| 3.7 | universal-organization-name | o | | o | | | see B.1.10.8 |
| 3.8 | teletex-personal-name | o | | o | | | |
| 3.9 | universal-personal-name | o | | o | | | see B.1.10.8 |
| 3.10 | teletex-organizational-unit-names | o | | o | | | |
| 3.11 | universal-organizational-unit-names | o | | o | | | see B.1.10.8 |

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|---|---|---|---|---|---|---|---|
| | | **Base** | **Profile** | **Base** | **Profile** | | |
| 3.12 | unformatted-postal-address | o | | o | | | |
| 3.13 | universal-unformatted-postal-address | o | | o | | | see B.1.10.8 |
| 3.14 | teletex-domain-defined-attributes | o | | c[1] | | | |
| 3.15 | universal-domain-defined-attributes | o | | c[1] | | | see B.1.10.8 |
| 1 | if the terminal OR-address form is considered in the context of local MS-user identification then o else m | | | | | | |

## B.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 | | | |
| 1.1 | country-name | m | | m | | | |
| 1.2 | administration-domain-name | m | | m | | | |
| 1.3 | private-domain-name | o | | m | | | |
| 2 | extension-attributes | m | | m | | | |
| 2.1 | physical-delivery-country-name | m | | m | | | |
| 2.2 | physical-delivery-office-name | o | | m | | | |
| 2.3 | universal-physical-delivery-office-name | o | | m | | | see B.1.10.8 |
| 2.4 | physical-delivery-office-number | o | | m | | | |
| 2.5 | universal-physical-delivery-office-number | o | | m | | | see B.1.10.8 |
| 2.6 | physical-delivery-organization-name | o | | m | | | |
| 2.7 | universal-physical-delivery-organization-name | o | | m | | | see B.1.10.8 |
| 2.8 | physical-delivery-personal-name | o | | m | | | |
| 2.9 | universal-physical-delivery-personal-name | o | | m | | | see B.1.10.8 |
| 2.10 | postal-code | m | | m | | | |
| 2.11 | poste-restante-address | o | | m | | | |
| 2.12 | universal-poste-restante-address | o | | m | | | see B.1.10.8 |
| 2.13 | post-office-box-address | o | | m | | | |
| 2.14 | universal-post-office-box-address | o | | m | | | see B.1.10.8 |
| 2.15 | pds-name | o | | m | | | |
| 2.16 | street-address | o | | m | | | |
| 2.17 | universal-street-address | o | | m | | | see B.1.10.8 |
| 2.18 | unique-postal-name | o | | m | | | |
| 2.19 | universal-unique-postal-name | o | | m | | | see B.1.10.8 |
| 2.20 | extension-OR-address-components | o | | m | | | |

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|-------|---------|---------|---------|------|---------|---------|------------------|
| | | Base | Profile | Base | Profile | | |
| 2.21 | universal-extension-OR-address-components | o | | m | | | see B.1.10.8 |
| 2.22 | extension-physical-delivery-address-components | o | | m | | | |
| 2.23 | universal-extension-physical-delivery-address-components | o | | m | | | see B.1.10.8 |
| 2.24 | local-postal-attributes | o | | m | | | |
| 2.25 | universal-local-postal-attributes | o | | m | | | see B.1.10.8 |

## B.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 | | | |
| 1.1 | country-name | m | | m | | | |
| 1.2 | administration-domain-name | m | | m | | | |
| 1.3 | private-domain-name | o | | m | | | |
| 2 | extension-attributes | m | | m | | | |
| 2.1 | unformatted-postal-address | m | | m | | | |
| 2.2 | universal-unformatted-postal-address | m | | m | | | see B.1.10.8 |
| 2.3 | physical-delivery-country-name | m | | m | | | |
| 2.4 | postal-code | m | | m | | | |
| 2.5 | pds-name | o | | m | | | |

## B.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 | | | |
| 1.1.2 | four-octets | m | | m | | | |
| 1.2 | iso-639-language-code | o | | o | | | |

### B.1.11 General attributes

| Ref. | Attribute | MS-user | | MS | | Support | Notes/References |
|---|---|---|---|---|---|---|---|
| | | Base | Profile | Base | Profile | | |
| 1 | certificate-selectors | o | | o | | | see B.1.9/7 |
| 2 | child-sequence-numbers | o | | m | | | |
| 3 | content | m | | m | | | |
| 4 | content-confidentiality-algorithm-identifier | o | | o | | | |
| 5 | content-correlator | o | | o | | | |
| 6 | content-identifier | o | | o | | | |
| 7 | content-integrity-check | o | | o | | | |
| 8 | content-length | o | | o | | | |
| 9 | content-returned | o | | o | | | |
| 10 | content-type | m | | m | | | |
| 11 | conversion-with-loss-prohibited | o | | o | | | |
| 12 | converted-EITs | o | | o | | | |
| 13 | creation-time | o | | m | | | |
| 14 | delivered-EITs | o | | o | | | |
| 15 | delivery-flags | o | | o | | | |
| 16 | dl-exempted-recipients | o | | o | | | |
| 17 | dl-expansion-history | o | | o | | | |
| 18 | entry-type | o | | m | | | |
| 19 | internal-trace-information | o | | o | | | |
| 20 | message-delivery-envelope | m | | m | | | |
| 21 | message-delivery-time | o | | o | | | |
| 22 | message-identifier | o | | o | | | |
| 23 | message-origin-authentication-check | o | | o | | | |
| 24 | message-security-label | o | | o | | | |
| 25 | message-submission-time | o | | o | | | |
| 26 | message-token | o | | o | | | |
| 27 | multiple-originator-certificates | o | | o | | | see B.1.9/9 |
| 28 | original-EITs | o | | o | | | |
| 29 | originally-intended-recipient-name | o | | o | | | |
| 30 | originator-certificate | o | | o | | | see B.1.8/13 |
| 31 | originator-name | o | | o | | | |
| 32 | other-recipient-names | o | | o | | | |
| 33 | parent-sequence-number | o | | m | | | |
| 34 | per-recipient-report-delivery-fields | o | | m | | | |
| 35 | priority | o | | o | | | |
| 36 | proof-of-delivery-request | o | | o | | | |
| 37 | recipient-certificate | o | | o | | | see B.1.8/13 |
| 38 | redirection-history | o | | o | | | |
| 39 | report-delivery-envelope | m | | m | | | |
| 40 | report-origin-authentication-check | o | | o | | | |

| Ref. | Attribute | MS-user | | MS | | Support | Notes/References |
|------|-----------|---------|---------|------|---------|---------|------------------|
| | | **Base** | **Profile** | **Base** | **Profile** | | |
| 41 | reporting-DL-name | o | | o | | | |
| 42 | reporting-MTA-certificate | o | | o | | | see B.1.8/13 |
| 43 | retrieval-status | m | | m | | | |
| 44 | security-classification | o | | o | | | |
| 45 | sequence-number | m | | m | | | |
| 46 | signature-verification-status | o | | o | | | |
| 47 | subject-submission-identifier | o | | m | | | |
| 48 | this-recipient-name | o | | o | | | |
| 49 | trace-information | o | | o | | | |

### B.1.12 Auto-actions

| Ref. | Element | MS-user | | MS | | Support | Notes/References |
|------|---------|---------|---------|------|---------|---------|------------------|
| | | **Base** | **Profile** | **Base** | **Profile** | | |
| 1 | auto-forward | o | | o | | | see B.1.6 |
| 2 | auto-alert | o | | o | | | see B.1.7 |
| 3 | other-auto-actions: | o | | o | | | |

## B.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 ISP 10611-5.

## B.3    Additional information

### B.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.

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 Attributes | Comments |
|---|---|---|---|---|---|
| | | Submission | Retrieval | | |
| 1 | built-in | | | – | |
| 1.1 | unidentified (0) | | | – | |
| 1.2 | interpersonal-messaging-1984 (2) | | | – | |
| 1.3 | interpersonal-messaging-1988 (22) (see Notes) | | | | |
| 1.4 | (EDI messaging) (35) | | | | |
| 2 | extended (specify) | | | | |

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

NOTE 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.

### B.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.

| Ref. | Encoced 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) | | | |
| 1.6 | videotex (6) | | | |
| 1.7 | voice (7) | | | |
| 1.8 | mixed-mode (9) | | | |
| 1.9 | other (specify) | | | |
| 2 | extended (specify) | | | |

### B.3.3 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 | | |

### B.3.4 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). | | | |

### B.3.5 Support of attributes by the MS-user

The following table 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.

| Ref. | Attribute | Comments |
|------|-----------|----------|
| 1 | certificate-selectors | |
| 2 | child-sequence-numbers | |
| 3 | content | |
| 4 | content-confidentiality-algorithm-identifier | |
| 5 | content-correlator | |
| 6 | content-identifier | |
| 7 | content-integrity-check | |
| 8 | content-length | |
| 9 | content-returned | |
| 10 | content-type | |
| 11 | conversion-with-loss-prohibited | |
| 12 | converted-EITs | |
| 13 | creation-time | |
| 14 | delivered-EITs | |
| 15 | delivery-flags | |
| 16 | dl-exempted-recipients | |
| 17 | dl-expansion-history | |
| 18 | entry-type | |
| 19 | internal-trace-information | |
| 20 | message-delivery-envelope | |
| 21 | message-delivery-time | |
| 22 | message-identifier | |
| 23 | message-origin-authentication-check | |
| 24 | message-security-label | |
| 25 | message-submission-time | |
| 26 | message-token | |
| 27 | multiple-originator-certificates | |
| 28 | original-EITs | |

| Ref. | Attribute | Comments |
|------|-----------|----------|
| 29 | originally-intended-recipient-name | |
| 30 | originator-certificate | |
| 31 | originator-name | |
| 32 | other-recipient-names | |
| 33 | parent-sequence-number | |
| 34 | per-recipient-report-delivery-fields | |
| 35 | priority | |
| 36 | proof-of-delivery-request | |
| 37 | recipient-certificate | |
| 38 | redirection-history | |
| 39 | report-delivery-envelope | |
| 40 | report-origin-authentication-check | |
| 41 | reporting-DL-name | |
| 42 | reporting-MTA-certificate | |
| 43 | retrieval-status | |
| 44 | security-classification | |
| 45 | sequence-number | |
| 46 | signature-verification-status | |
| 47 | subject-submission-identifier | |
| 48 | this-recipient-name | |
| 49 | trace-information | |

### B.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 B.1 and B.2. For each extension it shall be references to where in the protocol they might appear.

| Ref. | Extension identifier | Comments |
|------|----------------------|----------|
| | | |

# Anexo C

## Enmiendas y corrigenda

(Este anexo es parte integrante de la presente Recomendación)

Las Recomendaciones y Normas Internacionales están sujetas a estudio y revisión constante por el UIT-T y la ISO/CEI. Las siguientes enmiendas y corrigenda están aprobadas por el UIT-T y la ISO/CEI y se consideran referencias normativas de esta Recomendación.

Ninguno.

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