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X.483

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REDES DE COMUNICACIÓN DE DATOS

**PROTOCOLO P3 – FORMULARIO DE
ENUNCIADO DE CONFORMIDAD DE
IMPLEMENTACIÓN DE PROTOCOLO**



Recomendación X.483

PREFACIO

El CCITT (Comité Consultivo Internacional Telegráfico y Telefónico) es un órgano permanente de la Unión Internacional de Telecomunicaciones (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 Asamblea Plenaria del CCITT, que se celebra cada cuatro años, establece los temas que han de estudiarse y aprueba las Recomendaciones preparadas por sus Comisiones de Estudio. La aprobación de Recomendaciones por los miembros del CCITT entre las Asambleas Plenarias de éste es el objeto del procedimiento establecido en la Resolución N.º 2 del CCITT (Melbourne, 1988).

La Recomendación X.483 ha sido preparada por la Comisión de Estudio VII y fue aprobada por el procedimiento de la Resolución N.º 2 el 10 de septiembre de 1992.

NOTA DEL CCITT

En esta Recomendación, la expresión «Administración» se utiliza para designar, en forma abreviada, tanto una Administración de telecomunicaciones como una empresa privada de explotación reconocida de telecomunicaciones.

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INTRODUCCIÓN

La presente Recomendación forma parte de un conjunto de Recomendaciones que definen el tratamiento de mensajes en un entorno de sistemas abiertos distribuido.

El tratamiento de mensajes permite el intercambio de mensajes entre usuarios mediante almacenamiento y envío (store-and-forward). Un mensaje remitido 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 recibientes).

El usuario puede interactuar directamente con el MTS, o indirectamente mediante una memoria de mensajes (MS, *message store*).

El MTS comprende un cierto número de agentes de transferencia de mensajes (MTA, *message transfer agents*), que transfieren los mensajes y los entregan a los recibientes deseados.

Para evaluar la conformidad de una implementación, es necesario disponer de un enunciado que indique las capacidades y las opciones utilizadas para un protocolo OSI. Dicho enunciado se denomina enunciado de conformidad de implementación de protocolo (PICS, *protocol implementation conformance statement*).

Esta Recomendación incluye el formulario de PICS para el protocolo P3, como se define en las Recomendaciones X.411 y X.419.

Recomendación X.483

PROTOCOLO P3 – FORMULARIO DE ENUNCIADO DE CONFORMIDAD DE IMPLEMENTACIÓN DE PROTOCOLO

(1992)

1 Alcance

Esta Recomendación define el formulario de PICS para el protocolo P3, especificado en las Recomendaciones X.411 y X.419. El formulario de PICS es conforme a los requisitos y directrices aplicables a los formularios de PICS contenidos en ISO/CEI 9642-2. Los detalles de la utilización de este formulario se indican en el anexo A a la presente Recomendación.

El objeto de esta Recomendación es la especificación de los enunciados de conformidad para:

- a) un agente de usuario (UA, *user agent*) cuando interactúa con un agente de transferencia de mensajes (MTA);
- b) un MTA cuando interactúa con un UA.

2 Referencias normativas

- Recomendación X.400 del CCITT, *Sistemas de tratamiento de mensajes: Visión de conjunto del sistema y del servicio.*
- Recomendación X.411 del CCITT, *Sistemas de tratamiento de mensajes: Sistema de transferencia de mensajes: Definición del servicio abstracto y procedimientos.*
- Recomendación X.402 del CCITT, *Sistemas de tratamiento de mensajes: Arquitectura global.*
- Recomendación X.408 del CCITT, *Sistemas de tratamiento de mensajes: Reglas de conversión de tipos de información codificada.*
- Recomendación X.419 del CCITT, *Sistemas de tratamiento de mensajes: Especificaciones de protocolo.*

ISO/CEI 9646-1:1991, *Information technology – Open Systems Interconnection – Conformance testing methodology and framework – Part 1: General concepts.* [Véase también la Recomendación X.290 del CCITT (1991).]

ISO/CEI 9646-2:1991, *Information technology – Open Systems Interconnection – Conformance testing methodology and framework – Part 2: Abstract test suite specification.* [Véase también la Recomendación X.291 del CCITT (1991).]

3 Definiciones

En la presente Recomendación se utilizan los términos definidos en las Recomendaciones X.411 y X.419.

En esta Recomendación se utilizan los siguientes términos definidos en ISO/CEI 9646-1:

- a) formulario de PICS;
- b) enunciado de conformidad de implementación de protocolo (PICS).

4 Abreviaturas

En la presente Recomendación se utilizan las abreviaturas definidas en las Recomendaciones X.411 y X.419.

5 Convenios

El formulario de PICS se designa como anexo a la presente Recomendación (véase el anexo A).

6 Conformidad

El proveedor de una implementación de protocolo que pretende ser conforme a la sección 2 de la Recomendación X.419, debe rellenar un ejemplar del formulario de PICS que aparece en el anexo A y proporcionar la información necesaria para identificar tanto al suministrador como la implementación.

ANEXO A
(a la Recomendación X.483)

**Protocolo P3 – Formulario de enunciado de
conformidad de implementación de protocolo**
(Este anexo es parte integrante de esta Recomendación)

A.1 *Identification of the implementation*

A.1.1 *Identification of the PICS*

Ref. No.	Question	Response
1	Date of Statement (DD/MM/YY)	
2	PICS Serial Number	
3	System Conformance Statement Cross Reference	

A.1.2 *Identification of the implementation and/or system*

Ref. No.	Question	Response
1	Implementation Name	
2	Version Number	
3	Machine Name	
4	Machine Version Number	
5	Operating System Name	
6	Operating System Version	
7	Special Configuration	
8	Other information	

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.1.3 *Identification of the system supplier and/or test laboratory client*

Ref. No.	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.2 *Identification of protocol*

A.2.1 *General*

Ref. No.	Question	Response
1	Title and Reference Number and date of publication of the protocol standard	
2	Protocol version Numbers	
3	Addenda Implemented Defects	
4	Implemented Defect Reports (Ref. No.)	

A.2.2 *Identification of the physical configuration*

Ref. No.	Question	Response
1	UA	[]
2	or MTA	[]

A.3 *Global statement of conformance*

Ref. No.	Question	Def	Response
1	Are all mandatory capabilities implemented (YES or NO)	m	

Note – Answering “No” to this question indicates non-conformance to the protocol specification. Non-supported mandatory capabilities are to be identified in the PICS, with an explanation of why the implementation is non-conformant. Such information shall be provided in A.6.7 “Other information”.

A.4 *Instructions for completing the PICS proforma*

A.4.1 *Definition of support*

A capability is said to be supported if the Implementation Under Test (IUT) is able:

- a) to generate the corresponding service parameters (either automatically or because the end user explicitly requires that capability);
- b) to interpret, handle and when required make available to the end user the corresponding service parameter(s).

A capability is referred to as either an originator capability “O” (when the MHS end-user is acting as originator) or a recipient capability “R” (when the MHS end-user is acting as recipient).

A protocol element is said to be supported for a sending implementation if it is able to generate it under some circumstances (either automatically or because the end user requires relevant services explicitly).

A protocol element is said to be supported for a receiving implementation if it is correctly interpreted and handled it and also, when required, made available to the end user.

A.4.2 *Def (Defined) column*

These two columns (one for each physical configuration UA or MTA) indicate the level of support required for conformance to the Recommendation X.419, Section 2. Only one shall be considered according to the response given to question A.2.2 . The values are as follows:

- m Mandatory support is required.
- o Optional support is permitted for conformance to the Recommendation. If implemented it must conform to the specifications and restrictions contained in the Recommendation. These restrictions may affect the optionality of other items.
- c The item is conditional, the support of this item is subject to a predicate which is referenced in the Note column.
- n/a The item is not applicable.

If Security or Physical Delivery options are not supported (see A.6.2.2) the corresponding items shall be considered as not applicable.

A.4.3 *Impl (Implemented) column*

This column shall be completed by the supplier or implementor, when a “[]” is present, to indicate the level of implementation of each feature. The proforma has been designed such that the only entries required in that column are:

- Y Yes, the feature has been implemented.
- N No, the feature has not been implemented.
- The item is not applicable.

In the PICS proforma tables, every leading feature marked ‘m’ should be supported by the IUT. Sub-features marked ‘m’ should be supported if the corresponding leading feature is supported by the IUT.

All entries within the PICS proforma shall be made in ink. Alterations to such entries shall be made by crossing out, not erasing nor making the original entry illegible, and writing the new entry alongside. All such alterations to records shall be initialled by the staff making them.

A.4.4 *Permitted range of values/value supported columns*

A permitted range of value is specified when the value is different from the bounds specified in A.6.6.6. For each line for which there is a “___” in the Value supported column values should be indicated.

A.4.5 *Note column*

The 'Note' column has to be read as follows:

- nxx Refers to Note nxx.
- pxx Refers to predicate pxx.
- #yy Refers to A.6.6.yy.

A.4.6 *Options column*

- SEC Refers to a security item.
- PHY Refers to a physical delivery item.

A.4.7 *Item reference numbers*

Each line within the PICS proforma which requires implementation details to be entered is numbered at the left hand edge of the line. This numbering is included as a means of uniquely identifying all possible implementation details within the PICS proforma.

The means of referencing individual responses is done by the following sequence:

- a) a reference to the smallest subclause enclosing the relevant item;
- b) a solidus character, '/';
- c) the reference number of the row in which the response appears.

An example of the use of this notation would be A.6.3/20, which refers to the Message Identification element of service.

A.4.8 *Predicate definitions*

If the classification of an Element of Service (EOS) or a Protocol Element (PEL) is subject to a predicate support of the item is mandatory is the related predicate is true. Otherwise support of the item is optional.

- p9o True if the IUT subscribes to the Alternate recipient allowed EOS in Origination (see A.6.3/2);
- p10 True if the IUT subscribes to the Alternate recipient assignment EOS (see A.6.3/3);
- p11o True if the IUT subscribes to the Conversion prohibition in case of loss information EOS in Origination (see A.6.3/6);
- p11r True if the IUT subscribes to the Conversion prohibition in case of loss information EOS in Reception (see A.6.3/6);
- p12 True if the IUT subscribes to the Deferred delivery cancellation EOS (see A.6.3/9);
- p13 True if the IUT subscribes to the Disclosure of other recipients EOS (see A.6.3/12);
- p14 True if the IUT subscribes to the DL expansion prohibited EOS (see A.6.3/14);
- p15 True if the IUT subscribes to the Explicit conversion EOS (see A.6.3/15);
- p16 True if the IUT subscribes to the Hold for delivery EOS (see A.6.3/17);
- p18 True if the IUT subscribes to the Latest delivery designation EOS (see A.6.3/19);
- p19 True if the IUT subscribes to the Originator requested alternate recipient EOS (see A.6.3/24);
- p20 True if the IUT subscribes to the Prevention of non-delivery notification EOS (see A.6.3/25);
- p21 True if the IUT subscribes to the Probe EOS (A.6.3/26);
- p22 True if the IUT subscribes to the Redirection disallowed by originator EOS (see A.6.3/27);

- p23o True if the IUT subscribes to the Requested Preferred Delivery Method EOS in origination (see A.6.3/29);
- p23r True if the IUT subscribes to the Requested Preferred Delivery Method EOS in reception (see A.6.3/29);
- p25 True if the IUT subscribes to the Return of content EOS (see A.6.3/31);
- p26 True if the IUT subscribes to the Use of distribution list EOS (see A.6.3/39);
- p27 True if g3, g4 facsimile or teletex is supported (see A.6.6.2.1.6/1.4, A.6.6.2.1.6/1.5 or A.6.6.2.1.6/1.6);
- p28 True if the issuing management domain is not an ADMD;
- p29 True if the content-identifier is supported in the MessageSubmissionEnvelope (see A.6.6.2.1.1.1/4);
- p30 True if the content-identifier is present in the ProbeSubmissionEnvelope (see A.6.6.2.2.1.1/4);
- p39 True if equivalent registration by local means cannot take place;
- p40 True if supported in Origination;
- p42 True if the IUT subscribes to the Content confidentiality EOS (see A.6.3/80);
- p43 True if the IUT subscribes to the Content integrity EOS (see A.6.3/81);
- p44 True if the IUT subscribes to the Message origin authentication EOS (see A.6.3/83);
- p45 True if the IUT subscribes to the Message security labelling EOS (see A.6.3/84);
- p46 True if the IUT subscribes to the Non repudiation of delivery EOS (see A.6.3/86);
- p47 True if the IUT subscribes to the Probe origin authentication EOS (see A.6.3/89);
- p48 True if the IUT subscribes to the Proof of delivery EOS (see A.6.3/90);
- p49 True if the IUT subscribes to the Proof of submission EOS (see A.6.3/91);
- p50 True if the IUT subscribes to the Report origin authentication EOS (see A.6.3/92);
- p51 True if the IUT subscribes to the Secure access management EOS (see A.6.3/93);
- p54 True if the IUT subscribes to the Request for forwarding address EOS (see A.6.3/73);
- p55 True if the IUT subscribes to the Counter collection with advice or the Delivery via Bureau fax Service EOS (see A.6.3/63 or A.6.3/64);
- p56 True if originating-MTA-certificate supported in the argument.
- p57 True if the IUT subscribes to the Physical forwarding prohibited EOS (see A.6.3/70);
- p58 True if the IUT subscribes to the Registered mail EOS (see A.6.3/71);
- p59 True if the IUT subscribes to the Physical delivery notification by MHS or Physical delivery notification by PDS EOS (see A.6.3/67 or A.6.3/68).

Combined predicates

- p100 p56 or p49;
- p101 p11o or p14 or p18 or p22 or p42 or p44 or p45;
- p102 p11o or p14 or p22 or p45 or p47;
- p103 p39 and [(p45 and p51) or p10].

A.5 *Abbreviations*

“N/A” Not Applicable.

A.6 Capabilities and options

A.6.1 Initiator/Responder capability

A.6.2 Supported application contexts and options

A.6.2.1 Application Context Name		Def UA	Def MTA	Note	Impl
1	ms-access	m	m		[]
2	mts-forced-access	m	m		[]
3	ms-reliable-access	o	o		[]
4	mts-forced-reliable-access	o	o		[]

A.6.2.2 Options		Def UA	Def MTA	Note	Impl
1	Are all Security capabilities implemented?	o	o		[]
2	Are all Physical Delivery capabilities implemented?	o	o		[]

A.6.3 Major capabilities

Note – ‘O’ / ‘R’ means ‘Origination’ / ‘Reception’.

A.6.3 Major capabilities, Elements of Service		O/R	Def UA	Def MTA	Note	Impl	Clause reference (Rec. X.400)
1	Access management	O	m	m		[]	B.1
		R	m	m		[]	
2	Alternate recipient allowed	O	o	m		[]	B.3
		R	o	m		[]	
3	Alternate recipient assignment	O	n/a	n/a			B.4
		R	o	o		[]	
4	Content type indication	O	m	m		[]	B.12
		R	m	m		[]	
5	Conversion prohibition	O	m	m		[]	B.13
		R	m	m		[]	
6	Conversion prohibition in case of loss of information	O	o	o		[]	B.14
		R	o	o		[]	
7	Converted indication	O	n/a	n/a			B.15
		R	m	m		[]	
8	Deferred delivery	O	m	m		[]	B.19
		R	n/a	n/a			
9	Deferred delivery cancellation	O	o	m		[]	B.20
		R	n/a	n/a			
10	Delivery notification	O	m	m		[]	B.21
		R	n/a	n/a			
11	Delivery time stamp indication	O	n/a	n/a			B.22
		R	m	m		[]	
12	Disclosure of other recipients	O	o	m		[]	B.25
		R	m	m		[]	
13	DL expansion history indication	O	n/a	n/a			B.26
		R	m	m		[]	
14	DL expansion prohibited	O	o	o		[]	B.27
		R	n/a	n/a			
15	Explicit conversion	O	o	o		[]	B.30
		R	n/a	n/a			

A.6.3 Major capabilities, Elements of Service		O/R	Def UA	Def MTA	Note	Impl	Clause reference (Rec. X.400)
16	Grade of delivery selection	O	m	m		[]	B.32
		R	m	m		[]	
17	Hold for delivery	O	n/a	n/a		[]	B.33
		R	n/a	o		[]	
18	Implicit conversion	O	n/a	n/a		[]	B.34
		R	o	o	n1	[]	
19	Latest delivery designation	O	o	o		[]	B.39
		R	n/a	n/a		[]	
20	Message identification	O	m	m		[]	B.41
		R	m	m		[]	
21	Multi-destination delivery	O	m	m		[]	B.45
		R	n/a	n/a		[]	
22	Non-delivery notification	O	m	m		[]	B.47
		R	n/a	n/a		[]	
23	Original encoded information types indication	O	m	m		[]	B.54
		R	m	m		[]	
24	Originator requested alternate recipient	O	o	o		[]	B.56
		R	n/a	n/a		[]	
25	Prevention of non-delivery notification	O	o	o		[]	B.61
		R	n/a	n/a		[]	
26	Probe	O	o	m		[]	B.63
		R	n/a	n/a		[]	
27	Redirection disallowed by originator	O	o	o		[]	B.68
		R	n/a	n/a		[]	
28	Redirection of incoming messages	O	n/a	n/a		[]	B.69
		R	o	o		[]	
29	Requested preferred delivery method	O	o	o		[]	B.76
		R	o	o		[]	
30	Restricted delivery	O	n/a	n/a		[]	B.77
		R	o	o	n2	[]	
31	Return of content	O	o	o		[]	B.78
		R	n/a	n/a		[]	
38	Submission time stamp indication	O	m	m		[]	B.89
		R	m	m		[]	
39	Use of distribution list	O	o	o		[]	B.92
		R	o	o		[]	
40	User/UA capabilities registration	O	n/a	n/a		[]	B.93
		R	m	m		[]	
41	Designation of recipient by directory name	O	o	o		[]	B.24
		R	n/a	n/a		[]	

Note 1 – Neither the originating nor the recipient UA explicitly requests this EOS on a per-message basis.

Note 2 – The MTS abstract service specified in Recommendation X.411 does not provide a technical realization of this Element of Service.

Note – The table below shall be filled in only if Physical Delivery option is supported (see A.6.2.2/2).

A.6.3 Major capabilities, Elements of Service		O/R	Def UA	Def MTA	Note	Impl	Clause reference (Rec. X.400)
	Physical delivery						
60	Additional physical rendition	O R	o o	o o		[] []	B.2
61	Basic physical rendition	O R	m n/a	m n/a		[]	B.7
62	Counter collection	O R	m n/a	m n/a		[]	B.16
63	Counter collection with advice	O R	o o	o o		[] []	B.17
64	Delivery via Bureaufax service	O R	o o	o o		[] []	B.23
65	EMS (express mail service)	O R	m n/a	m n/a		[]	B.28
66	Ordinary mail	O R	m n/a	m n/a		[]	B.53
67	Physical delivery notification by MHS	O R	o o	o o		[] []	B.57
68	Physical delivery notification by PDS	O R	o n/a	o n/a		[]	B.58
69	Physical forwarding allowed	O R	m n/a	m n/a		[] []	B.59
70	Physical forwarding prohibited	O R	o n/a	o n/a		[]	B.60
71	Registered mail	O R	o o	o o		[] []	B.70
72	Registered mail to addressee in person	O R	o o	o o		[] []	B.71
73	Request for forwarding address	O R	o o	o o		[] []	B.75
74	Special delivery	O R	m n/a	m n/a		[]	B.81
75	Undeliverable mail with return of physical message	O R	m n/a	m n/a		[]	B.91

Note – The table below shall be filled in only if Security option is implemented (see A.6.2.2/1).

A.6.3 Major capabilities, Elements of Service		O/R	Def UA	Def MTA	Note	Impl	Clause reference (Rec. X.400)
80	Security Content confidentiality	O R	o c	o c	p40	[] []	B.10
81	Content integrity	O R	o c	o c	p40	[] []	B.11
82	Message flow confidentiality	O R	o n/a	o n/a		[] []	B.40
83	Message origin authentication	O R	o c	o c	p40	[] []	B.42
84	Message security labelling	O R	o c	o c	p40	[] []	B.43
85	Message sequence integrity	O R	o c	o c	p40	[] []	B.44
86	Non-repudiation of delivery	O R	o c	o c	p40	[] []	B.49
87	Non-repudiation of origin	O R	o c	o c	p40	[] []	B.50
88	Non-repudiation of submission	O R	o c	o c	p40	[] []	B.51
89	Probe origin authentication	O R	o n/a	o n/a		[] []	B.64
90	Proof of delivery	O R	o c	o c	p40	[] []	B.65
91	Proof of submission	O R	o n/a	o n/a		[] []	B.66
92	Report origin authentication	O R	o c	o c	p40	[] []	B.74
93	Secure access management	O R	o c	o c	p40	[] []	B.79

A.6.4 Timers and Protocol parameters

“N/A”.

A.6.5 Supported PDUs (Operations)

The UA must provide access to the MSSE, the MDSE and the MASE application-service-elements. Support of the related operations is as defined in the UA column of the tables below.

The MTA must support the MSSE, the MDSE and the MASE application-service-elements. Support of the related operations is as defined in the MTA column of the tables below.

A.6.5 Supported PDUs (Operations)		Def UA	Def MTA	Note	Impl	Clause reference (Rec. X.411)
A.6.5.1 Bind and Unbind						
1	MTSBind access	m	m		[]	8.1.1.1
2	MTSUnbind access	m	m		[]	8.1.1.2
3	MTSBind forced access	m	m		[]	8.1.1.1
2	MTSUnbind forced access	m	m		[]	8.1.1.2

A.6.5 Supported PDUs (Operations)	Def UA	Def MTA	Note	Impl	Clause reference (Rec. X.411)	
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A.6.5.2 MSSE						
1	MessageSubmission	m	m		[]	8.2.1.1
2	ProbeSubmission	c	m	p21	[]	8.2.1.3
3	CancelDeferredDelivery	c	m	p12	[]	8.2.1.4
4	SubmissionControl	m	o		[]	8.2.1.5

A.6.5.3 MDSE						
1	Message-Delivery	m	m		[]	8.3.1.1
2	Report-Delivery	m	m		[]	8.3.1.3
3	Delivery Control	o	m		[]	8.3.1.4

A.6.5.4 MASE						
1	Register	c	m	p39	[]	8.4.1.1
2	ChangeCredentials (MTA to UA)	m	o		[]	8.4.1.2
3	ChangeCredentials (UA to MTA)	o	m		[]	8.4.1.2

A.6.6 Supported PDU Parameters (Operations Arguments)

A.6.6.1 Abstract Bind/Unbind Operations

A.6.6.1.1 Abstract Binding operations: MTS-Bind access	Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)	
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1	Argument						8.1.1.1.1	
1	initiator-name	m	m			[]		
1.1	mTs-User	m	m			[]		
2	initiator-credentials	m	m			[]		
2.1	simple	m	m			[]		
2.1.1	IA5String	o	m			[]		
2.1.2	OCTET STRING	o	m			[]		
2.2	strong	c	c	p51		[]		
2.2.1	bind-token	m	m			[]		
2.2.1.1	signature-algorithm-identifier	m	m			[]		SEC
2.2.1.2	name	m	m			[]		SEC
2.2.1.3	time	m	m			[]		SEC
2.2.1.4	signed-data	o	o			[]		SEC
2.2.1.5	encryption-algorithm-identifier	o	o			[]		SEC
2.2.1.6	encrypted-data	o	o			[]		SEC
2.2.2	certificate	o	o			[]		SEC
3	security-context	c	c	p45 and p51		[]		

A.6.6.1.1	Abstract Binding operations: MTS-Bind access	Def	Def	Note	Permitted range of values		Impl	Value supported	Clause reference (Rec. X.411)
		UA	MTA		UA	MTA			

2	Result							8.1.1.1.2	
1	responder-name	m	m			[]			
1.2	MTAName	m	m			[]			
2	message waiting	c	c	p16		[]			
2.1	urgent	m	m			[]			
2.2	normal	m	m			[]			
2.3	non urgent	m	m			[]			
3	responder-credentials	m	m			[]			
3.1	simple	m	m			[]			
3.1.1	IA5String	m	o			[]			
3.1.2	OCTET STRING	m	o			[]			
3.1	strong	c	c	p51		[]			SEC
3.1.1	bind-token	m	m			[]			SEC
3.1.1.1	signature-algorithm-identifier	m	m			[]			SEC
3.1.1.2	name	m	m			[]			SEC
3.1.1.3	time	m	m			[]			SEC
3.1.1.4	signed-data	o	o			[]			SEC
3.1.1.5	encryption-algorith-identifier	o	o			[]			SEC
3.1.1.6	encrypted-data	o	o			[]			SEC

3	Errors							8.1.1.1.3	
1	Busy	m	m			[]			
2	authentication-error	m	m			[]			SEC
3	unacceptable-dialog-mode	m	m			[]			
4	unacceptable-security-context	m	m			[]			SEC

A.6.6.1.2 Abstract Binding operations: MTS-Bind forced access		Def UA	Def MTA	Note	Permitted range of values UA MTA		Impl	Value supported	Clause reference (Rec. X.411)
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1	Argument							8.1.1.1.1	
1	initiator-name	m	m					[]	
1.2	MTAName	m	m					[]	
2	message waiting	c	c	p16				[]	
2.1	urgent	m	m					[]	
2.2	normal	m	m					[]	
2.3	non urgent	m	m					[]	
3	initiator-credentials	m	m					[]	
3.1	simple	m	m					[]	
3.1.1	IA5String	m	o					[]	
3.1.2	OCTET STRING	m	o					[]	
3.1	strong	c	c	p51				[]	SEC
3.1.1	bind token	m	m					[]	
3.1.1.1	signature-algorithm-identifier	m	m					[]	SEC
3.1.1.2	name	m	m					[]	SEC
3.1.2.3	time	m	m					[]	SEC
3.1.1.4	signed-data	o	o					[]	SEC
3.1.1.5	encryption-algorithm-identifier	o	o					[]	SEC
3.1.1.6	encrypted-data	o	o					[]	SEC
3.1.2	certificate	o	o					[]	
4	Securitycontext	c	c	p45 and p51				[]	SEC

2	Result							8.1.1.1.2	
1	responder-name	m	m					[]	
1.1	mTs-user	m	m					[]	
3	Responder credentials	m	m					[]	
3.1	simple	m	m					[]	
3.1.1	IA5String	o	m					[]	
3.1.2	OCTETString	o	m					[]	
3.1	strong	c	c	p51				[]	SEC
3.1.1	bind token	m	m					[]	
3.1.1.1	signature-algorithm-identifier	m	m					[]	SEC
3.1.1.2	name	m	m					[]	SEC
3.1.2.3	time	m	m					[]	SEC
3.1.1.4	signed-data	o	o					[]	SEC
3.1.1.5	encryption-algorithm-identifier	o	o					[]	SEC
3.1.1.6	encrypted-data	o	o					[]	SEC
3.1.2	Certificate	o	o					[]	

3	Errors							8.1.1.1.3	
1	Busy	m	m					[]	
2	authentication-error	m	m					[]	
3	unacceptable-dialog-mode	m	m					[]	
4	unacceptable-security-context	m	m					[]	SEC

A.6.6.2 *Abstract MSSE Operations*

A.6.6.2.1 MSSE operations: MessageSubmission		Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)	
1	Argument							8.2.1.1.1	
1 2	MessageSubmissionEnvelope Content	m m	m m			[] []			
2	Result							8.2.1.1.2	
1 2 3 4 4.1 4.2	message-submission-identifier message-submission-time content-identifier extensions originating-MTA-certificate proof-of-submission	m m c c c c	m m m c c c	#2.1.4 p29 p100 p49		[] [] [] [] [] []			SEC SEC
3	Errors							8.2.1.1.3	
1 2 3 4 5 6 7 8	SubmissionControlViolated ElementOfServiceNotSubscribed OriginatorInvalid RecipientImproperlySpecified InconsistentRequest SecurityError UnsupportedCriticalFunction RemoteBindError	m m m m m m m n/a	m m m m m m m n/a			[] [] [] [] [] [] [] []			SEC

A.6.6.2.1.1.1 MessageSubmissionEnvelope		Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)	
1	originator-name	m	m			[]		8.2.1.1.1.1	
2	original-encoded-information-types	m	m	#2.1.6		[]		8.2.1.1.1.33	
3	content-type	m	m	#2.1.7		[]		8.2.1.1.1.34	
4	content-identifier	o	m			[]		8.2.1.1.1.35	
5	priority	m	m			[]		8.2.1.1.1.8	
5.1	normal	m	m			[]			
5.2	urgent	m	m			[]			
5.3	non-urgent	m	m			[]			
6	per-message-indicators	m	m			[]			
6.1	disclosure-of-recipients	c	m	p13		[]		8.2.1.1.1.7	
6.2	implicit-conversion-prohibited	m	m			[]		8.2.1.1.1.9	
6.3	alternate-recipient-allowed	c	m	p9o		[]		8.2.1.1.1.3	
6.4	content-return-request	c	c	p25		[]		8.2.1.1.1.23	
7	deferred-delivery-time	m	m			[]		8.2.1.1.1.12	
8	extensions	c	m	p101		[]			
8.1	recipient-reassignment-prohibited	c	c	p22		[]		8.2.1.1.1.4	
8.2	dl-expansion-prohibited	c	c	p14		[]		8.2.1.1.1.6	
8.3	conversion-with-loss-prohibited	c	c	p11o		[]		8.2.1.1.1.10	
8.4	latest-delivery-time	c	c	p18		[]		8.2.1.1.1.13	
8.5	originator-return-address	m	m			[]		8.2.1.1.1.21	PHY
8.6	originator-certificate	o	o			[]		8.2.1.1.1.25	SEC
8.7	content-confidentiality-algorithm-identifier	c	c	p42		[]		8.2.1.1.1.27	SEC
8.8	message-origin-authentication-check	c	c	p44		[]		8.2.1.1.1.29	SEC
8.9	message-security-label	c	c	p45		[]		8.2.1.1.1.30	SEC
8.10	proof-of-submission-request	c	c	p49		[]		8.2.1.1.1.31	SEC
8.11	content-correlator	o	m			[]		8.2.1.1.1.36	
8.12	forwarding-request	n/a	n/a						

A.6.6.2.1.1.1 MessageSubmissionEnvelope		Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)	
9	per-recipient-fields	m	m			[]			
9.1	recipient-name	m	m	#5		[]		8.2.1.1.1.2	
9.2	originator-report-request	m	m	#2.1.8		[]		8.2.1.1.1.22	
9.3	explicit-conversion	c	c	p15 #2.1.10		[]		8.2.1.1.1.11	
9.4	extensions	m	m			[]			
9.4.1	originator-requested-alternate-recipient	c	c	p19		[]		8.2.1.1.1.5	
9.4.2	requested-delivery-method	c	c	#2.1.9 p23o		[]		8.2.1.1.1.14	
9.4.3	physical-forwarding-prohibited	c	c	p57		[]		8.2.1.1.1.15	PHY
9.4.4	physical-forwarding-address-request	c	c	p54		[]		8.2.1.1.1.16	PHY
9.4.5	physical-delivery-modes	m	m			[]		8.2.1.1.1.17	PHY
9.4.6	registered-mail-type	c	c	p58		[]		8.2.1.1.1.18	PHY
9.4.7	recipient-number-for-advice	c	c	p55		[]		8.2.1.1.1.19	PHY
9.4.8	physical-rendition-attributes	m	m			[]		8.2.1.1.1.20	PHY
9.4.9	physical-delivery-report-request	c	c	p59		[]		8.2.1.1.1.24	PHY
9.4.10	message-token	c	c	p44		[]		8.2.1.1.1.26	SEC
9.4.11	content-integrity-check	c	c	p43		[]		8.2.1.1.1.27	SEC
9.4.13	proof-of-delivery-request	c	c	p48		[]		8.2.1.1.1.32	SEC

A.6.6.2.1.4 MTSIdentifier								8.5.1	
1	global-domain-identifier	m	m	#2.1.5		[]			
2	local-identifier	m	m			[]			

A.6.6.2.1.5 GlobalDomainIdentifier								8.5.2	
1	country-name	m	m			[]			
1.1	x121-dcc-code	m	m			[]			
1.2	iso-3166-alpha2-code	m	m			[]			
2	administration-domain-name	m	m			[]			
2.1	numeric	m	m			[]			
2.2	printable	m	m			[]			
3	private-domain-identifier	c	c	p28		[]			
3.1	numeric	m	m			[]			
3.2	printable	m	m			[]			

A.6.6.2.1.6 EncodedInformationTypes		Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)	
1	built-in-encoded-information-types	m	m			[]		8.5.6	
1.1	undefined	o	o			[]			
1.2	ia5-text	o	o			[]			
1.3	g3-facsimile	o	o			[]			
1.4	g4-class-1	o	o			[]			
1.5	teletex	o	o			[]			
1.6	videotex	o	o			[]			
1.7	voice	o	o			[]			
1.8	sfd	o	o			[]			
1.9	mixed-mode	o	o			[]			
2	non-basic-parameters	c	c	p27		[]			
2.1	g3-facsimile	o	o			[]			
2.2	teletex	o	o			[]			
2.2.1	graphic-character-sets	o	o			[]			
2.2.2	control-character-sets	o	o			[]			
2.2.3	page-formats	o	o			[]			
2.2.4	miscellaneous-terminal-capabilities	o	o			[]			
2.2.5	private-use	o	o			[]			
2.3	g4-class-1-and-mixed-mode	o	o			[]			
3	external-encoded-information-types	o	o	n3		[]			

Note 3 – Same support as corresponding built-in-encoded-information-types.

A.6.6.2.1.7 ContentType		Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)	
1	built-in	m	m			[]		8.2.1.1.1.34	
1.1	unidentified	o	o			[]			
1.2	external	o	o			[]			
1.3	interpersonal-84	o	o			[]			
1.4	interpersonal-88	o	o			[]			
2	extended	o	o			[]			

A.6.6.2.1.8 OriginatorReportRequest								8.2.1.1.1.22	
1	no report	c	c	p20		[]			
2	non-delivery-report	m	m			[]			
3	report	m	m			[]			

A.6.6.2.1.9 RequestedDeliveryMethod								8.2.1.1.1.14	
1	any-delivery-method	o	o			[]			
2	mhs-delivery	m	m			[]			
3	physical-delivery	m	m			[]			
4	telex-delivery	o	o			[]			
5	teletex-delivery	o	o			[]			
6	g3-facsimile-delivery	o	o			[]			
7	g4-facsimile-delivery	o	o			[]			
8	ia5-terminal-delivery	o	o			[]			
9	videotex-delivery	o	o			[]			
10	telephone-delivery	o	o			[]			PHY

A.6.6.2.1.10 Conversion		Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)
1	From ia5-text to							
1.1	teletex	o	o			[]		
1.2	g3-facsimile	o	o			[]		
1.3	g4-class-1	o	o			[]		
1.4	videotex	o	o			[]		
2	From teletex to							
2.1	ia5-text	o	o			[]		
2.2	g3-facsimile	o	o			[]		
2.3	g4-class-1	o	o			[]		
2.4	videotex	o	o			[]		
3	From videotex to							
3.1	ia5-text	o	o			[]		
3.2	teletex	o	o			[]		

Note – The tables below shall be filled in, for an UA, if the Probe capability is supported (predicate p21).

A.6.6.2.2 MSSE operations: ProbeSubmission		Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)
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1	Argument							8.2.1.2.1
1	ProbeSubmissionEnvelope	m	m			[]		

2	Result							8.2.1.2.2
1	probe-submission-identifier	m	m	#2.1.4		[]		
2	probe-submission-time	m	m			[]		
3	content-identifier	c	m	p30		[]		

3	Errors							8.2.1.2.3
1	SubmissionControlViolated	m	m			[]		
2	ElementOfServiceNotSubscribed	m	m			[]		
3	OriginatorInvalid	m	m			[]		
4	RecipientImproperlySpecified	m	m			[]		
5	InconsistentRequest	m	m			[]		
6	SecurityError	m	m			[]		
7	UnsupportedCriticalFunction	m	m			[]		
8	RemoteBindError	n/a	n/a					SEC

A.6.6.2.2.1.1 ProbeSubmissionEnvelope		Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)	
1	originator-name	m	m			[]		8.2.1.1.1.1	
2	original-encoded-information-types	m	m	#2.1.6		[]		8.2.1.1.1.33	
3	content-type	m	m	#2.1.7		[]		8.2.1.1.1.34	
4	content-identifier	o	m			[]		8.2.1.1.1.35	
5	content-length	o	m			[]		8.2.1.2.1.2	
6	per-message-indicators	m	m			[]			
6.1	disclosure-of-recipients	n/a	n/a						
6.2	implicit-conversion-prohibited	m	m			[]		8.2.1.1.1.9	
6.3	alternate-recipient-allowed	c	m	p9o		[]		8.2.1.1.1.3	
6.4	content-return-request	n/a	n/a						
7	extension	c	m	p102		[]			
7.1	recipient-reassignment-prohibited	c	c	p22		[]		8.2.1.1.1.4	
7.2	dl-expansion-prohibited	c	c	p14		[]		8.2.1.1.1.6	
7.3	conversion-with-loss-prohibited	c	c	p11o		[]		8.2.1.1.1.10	
7.4	originator-certificate	o	o			[]		8.2.1.1.1.25	SEC
7.5	message-security-label	c	c	p45		[]		8.2.1.1.1.30	SEC
7.6	content-correlator	o	m			[]		8.2.1.1.1.36	
7.7	probe-origin-authentication-check	c	c	p47		[]		8.2.1.2.1.1	
7.8	physical-rendition-attributes	m	m			[]		8.2.1.1.1.20	SEC PHY

PerRecipientProbeSubmissionFields									
8	per-probe-recipient-fields	m	m			[]			
8.1	recipient-name	m	m	#5		[]		8.2.1.1.1.2	
8.2	originator-report-request	m	m	#2.1.8		[]		8.2.1.1.1.22	
8.3	explicit-conversion	c	c	p15		[]		8.2.1.1.1.11	
8.4	extensions	m	m			[]			
8.4.1	originator-requested-alternate-recipient	c	c	p19		[]		8.2.1.1.1.5	
8.4.2	requested-delivery-method	c	c	#2.1.9 p23o		[]		8.2.1.1.1.14	

Note – The tables below shall be filled in, for an UA, if the Deferred Delivery Cancellation capability is supported (predicate p12).

A.6.6.2.3 MSSE operations: CancelDeferredDelivery		Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)	
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1	Argument							8.2.1.3.1	
1	message-submission-identifier	m	m	#2.1.4		[]			

2	Result (NULL)	m	m			[]			
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3	Errors							8.2.1.3.3	
1	DeferredDeliveryCancellationRejected	m	m			[]			
2	MessageSubmissionIdentifierInvalid	m	m			[]			
3	RemoteBindError	n/a	n/a						

Note – The tables below shall be filled in, for an MTA, if SubmissionControl operation is supported.

A.6.6.2.4 MSSE operations: SubmissionControl		Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)	
1	Argument							8.2.1.4.1	
1	controls	m	m			[]			
1.1	restrict	m	o			[]			
1.2	permissible-operations	m	o			[]			
1.3	permissible-maximum-content-length	m	o			[]			
1.4	permissible-lowest-priority	m	o			[]			
1.5	permissible-security-context	c	c	p45 and p51		[]			SEC
2	Result							8.2.1.4.2	
1	waiting	m	m			[]			
1.1	waiting-operations	o	m			[]			
1.2	waiting-messages	o	m			[]			
1.2.1	long-content	o	m			[]			
1.2.2	low-priority	o	m			[]			
1.2.3	other-security-labels	c	c	p45 and p51		[]			SEC
1.3	waiting-content-types	o	m	#2.1.7		[]			
1.4	waiting-encoded-information-types	o	m	#2.1.6		[]			
3	Errors							8.2.1.4.3	
1	SecurityError	m	m			[]			SEC
2	RemoteBindError	n/a	n/a						

A.6.6.3 Abstract MDSE Operations

A.6.6.3.1 MDSE operations: MessageDelivery		Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)	
1	Argument							8.3.1.1.1	
1	MessageDeliveryEnvelope	m	m			[]			
2	Content	m	m			[]			
2	Result							8.3.1.1.2	
2	Recipient-certificate proof-of-delivery	o c	o c	p48		[] []			SEC
3	Errors							8.3.1.1.3	
1	DeliveryControlViolated	m	m			[]			
2	SecurityError	m	m			[]			SEC
3	UnsupportedCriticalFunction	m	m			[]			

A.6.6.3.1.1.1 MessageDeliveryEnvelope		Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)	
1	message-delivery-identifier	m	m	#3.1.4		[]		8.3.1.1.1.1	
2	message-delivery-time	m	m			[]		8.3.1.1.1.2	
3	other-fields	m	m			[]			
3.1	content-type	m	m	#3.1.7		[]		8.2.1.1.1.34	
3.2	originator-name	m	m	#5		[]		8.2.1.1.1.1	
3.3	original-encoded-information-types	m	m	#3.1.6		[]		8.2.1.1.1.33	
3.4	priority	m	m			[]		8.2.1.1.1.8	
3.5	delivery-flags	m	m			[]			
3.6	other-recipient-names	m	m	#5		[]		8.3.1.1.1.6	
3.7	this-recipient	m	m	#5		[]		8.3.1.1.1.3	
3.8	originally-intended-recipient-name	m	m			[]		8.3.1.1.1.4	
3.9	converted-encoded-information-types	m	m	#3.1.6		[]		8.3.1.1.1.8	
3.10	message-submission-time	m	m			[]		8.2.1.1.2.2	
3.11	content-identifier	o	m			[]		8.2.1.1.1.35	
3.13	extensions	m	m			[]			
3.13.1	conversion-with-loss-prohibited	c	c	p11r		[]		8.2.1.1.1.10	
3.13.2	requested-delivery-method	c	c	p23r		[]		8.2.1.1.1.14	
3.13.3	physical-forwarding-prohibited	o	m			[]		8.2.1.1.1.15	PHY
3.13.4	physical-forwarding-address-request	o	m			[]		8.2.1.1.1.16	PHY
3.13.5	physical-delivery-modes	o	m			[]		8.2.1.1.1.17	PHY
3.13.6	registered-mail-type	o	m			[]		8.2.1.1.1.18	PHY
3.13.7	recipient-number-for-advice	o	m			[]		8.2.1.1.1.19	PHY
3.13.8	physical-rendition-attributes	o	m			[]		8.2.1.1.1.20	PHY
3.13.9	originator-return-address	o	m			[]		8.2.1.1.1.21	PHY
3.13.10	physical-delivery-report-request	o	m			[]		8.2.1.1.1.24	PHY
3.13.11	originator-certificate	o	o			[]		8.2.1.1.1.25	SEC
3.13.13	message-token	c	c	p44		[]		8.2.1.1.1.26	SEC
3.13.14	content-confidentiality-algorithm-identifier	c	c	p42		[]		8.2.1.1.1.27	SEC
3.13.15	content-integrity-check	c	c	p43		[]		8.2.1.1.1.28	SEC
3.13.16	message-origin-authentication-check	c	c	p44		[]		8.2.1.1.1.29	SEC
3.13.17	message-security-label	c	c	p45		[]		8.2.1.1.1.30	SEC
3.13.18	proof-of-delivery	c	c	p46 and p48		[]		8.2.1.1.1.32	SEC
3.13.19	redirection-history	o	m			[]			
	intended-recipient-name	m	m			[]		8.3.1.1.1.4	
	redirection-reason	m	m			[]		8.3.1.1.1.5	
3.13.20	dl-expansion-history	m	m			[]		8.3.1.1.1.7	

A.6.6.3.1.4 MTSIdentifier		Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)	
1	global-domain-identifier	m	m	#3.1.5			[]	8.5.1	
2	local-identifier	m	m				[]		

A.6.6.3.1.5 GlobalDomainIdentifier		Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)
1	country-name	m	m				[]	8.5.2
1.1	x121-dcc-code	m	m				[]	
1.2	iso-3166-alpha2-code	m	m				[]	
2	administration-domain-name	m	m				[]	
2.1	numeric	m	m				[]	
2.2	printable	m	m				[]	
3	private-domain-identifier	m	m				[]	
3.1	numeric	m	m				[]	
3.2	printable	m	m				[]	

A.6.6.3.1.6 EncodedInformationTypes								8.5.6
1	built-in-encoded-information-types	m	m				[]	
1.1	undefined	o	o				[]	
1.2	ia5-text	o	o				[]	
1.3	g3-facsimile	o	o				[]	
1.4	g4-class-1	o	o				[]	
1.5	teletex	o	o				[]	
1.6	videotex	o	o				[]	
1.7	voice	o	o				[]	
1.8	sfd	o	o				[]	
1.9	mixed-mode	o	o				[]	
2	non-basic-parameters	o	o				[]	
2.1	g3-facsimile	o	o				[]	
2.2	teletex	o	o				[]	
2.2.1	graphic-character-sets	o	o				[]	
2.2.2	control-character-sets	o	o				[]	
2.2.3	page-formats	o	o				[]	
2.2.4	miscellaneous-terminal-capabilities	o	o				[]	
2.2.5	private-use	o	o				[]	
2.3	g4-class-1-and-mixed-mode	o	o				[]	
3	external-encoded-information-types	o	o	n4			[]	

Note 4 – Same support as corresponding built-in-encoded-information-types.

A.6.6.3.1.7 ContentType		Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)
1	built-in	m	m				[]	
1.1	unidentified	o	o				[]	
1.2	external	o	o				[]	
1.3	interpersonal-84	o	o				[]	
1.4	interpersonal-88	o	o				[]	
2	extended	o	o				[]	

A.6.6.3.1 MDSE operation: ReportDelivery		Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)	
1	Argument							8.3.1.2.1	
1	ReportDeliveryEnvelope	m	m			[]			
2	Returned content	c	c	p25		[]			
2	Result (NULL)	m	m			[]		8.3.1.2.2	
3	Errors							8.3.1.2.3	
1	DeliveryControlViolated	m	m			[]			SEC
2	SecurityError	m	m			[]			
3	UnsupportedCriticalFunction	m	m			[]			

A.6.6.6.1.1.1 ReportDeliveryEnvelope		Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)	
1	subject-submission-identifier	m	m			[]		8.3.1.2.1.1	SEC
2	content-identifier	c	m	p30		[]		8.2.1.2.1.35	
3	content-type	m	m			[]		8.2.1.2.1.34	
4	original-encoded-information-types	m	m			[]		8.2.1.2.1.33	
5	extensions	m	m			[]			
5.1	message-security-label	c	c	p45		[]		8.2.1.2.1.30	
5.2	content-correlator	o	m			[]		8.2.1.1.1.36	
5.3	originator-and-DL-expansion-history	m	m			[]		8.3.1.2.1.3	
5.4	reporting-DL-name	c	c	p26		[]		8.3.1.2.1.4	
5.5	reporting-MTA-certificate	o	o			[]		8.3.1.2.1.12	
5.6	report-origin-authentication-check	c	c	p50		[]		8.3.1.2.1.13	

6	per-recipient-fields	m	m			[]			
1	recipient-name	m	m			[]		8.3.1.2.1.2	PHY SEC SEC
2	delivery	m	m			[]			
2.1	message-delivery-time	m	m			[]		8.3.1.2.1.8	
2.2	type-of-MTS-user	m	m			[]		8.3.1.2.1.9	
3	non-delivery	m	m			[]			
3.1	non-delivery-reason-code	m	m			[]		8.3.1.2.1.10	
3.2	non-delivery-diagnostic-code	m	m			[]		8.3.1.2.1.11	
4	delivered-encoded-information-types	m	m			[]			
5	originally-intended-recipient-name	m	m			[]		8.3.1.1.1.4	
6	supplementary-information	o	o			[]		8.3.1.2.1.6	
7	extensions	c	c	p46 and p48		[]			
7.1	redirection-history	o	m			[]			
7.1.1	intended-recipient-name	m	m			[]		8.3.1.1.1.4	
7.1.2	redirection-reason	m	m			[]		8.3.1.1.1.5	
7.2	physical-forwarding-address	m	m			[]		8.3.1.2.1.7	
7.3	recipient-certificate	o	o			[]		8.3.1.1.2.1	
7.4	proof-of-delivery	c	c	p46 and p48		[]		8.3.1.1.1.2	

Note – The tables below shall be filled in, for an UA, if the DeliveryControl operation is supported.

A.6.6.3.3 MDSE operation: DeliveryControl		Def UA	Def MTA	Note	Permitted range of values UA MTA		Impl	Value supported	Clause reference (Rec. X.411)	
1	Argument								8.3.1.3.1	
1	controls	m	m				[]			
1.1	restrict	o	m				[]			
1.2	permissible-operation	o	m				[]			
1.3	permissible-maximum-content-length	o	m				[]			
1.4	permissible-lowest-priority	o	m				[]			
1.5	permissible-content-type	o	m				[]			
1.6	permissible-encoded-information-types	o	m				[]			
1.7	permissible-security-context	–	–				[]			SEC
2	Result								8.3.1.3.2	
1	waiting	m	m				[]			
1.1	waiting operations	m	o				[]			
1.2	waiting-messages	m	o				[]			
1.2.1	long-content	m	o				[]			
1.2.2	low-priority	m	o				[]			
1.2.3	other-security-labels	c	c	p45			[]			SEC
1.3	waiting-content-types	m	o				[]			
1.4	waiting-encoded-information-types	m	o				[]			
3	Errors								8.3.1.3.3	
1	ControlViolatedRegistration	m	m				[]			
2	SecurityError	m	m				[]			SEC

A.6.6.4 Abstract MASE Operations

Note – The tables below shall be filled in, for an UA, if the Register operation is supported.

A.6.6.4.1 MASE operation: Register		Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)	
1	Argument							8.4.1.1.1	
1	user-name	c	m	p39		[]			
2	user-address	c	m	p39		[]			
2.1	x121	m	m			[]			
2.1.1	x121-address	m	m			[]			
2.1.2	tsap-id	m	m			[]			
2.2	presentation	m	m			[]			
3	deliverable-encoded-Information-types	c	m	p39 #3.1.6		[]			
4	deliverable-maximum-content-length	c	m			[]			
5	default-delivery-controls	o	m			[]			
5.1	restrict	o	m			[]			
5.2	permissible-operations	o	m			[]			
5.3	permissible-maximum-content-length	o	m			[]			
5.4	permissible-lowest-priority	o	m			[]			
5.5	permissible-content-types	o	m	#3.1.7		[]			
5.6	permissible-encoded-information-types	o	m	#3.1.6		[]			
6	deliverable-content-types	c	m	p39 #3.1.7		[]			
7	labels-and-redirections	c	c	p103		[]			
7.1	user-security-label	c	c	p45 and p51		[]			SEC
7.1.1	security-policy-identifier	o	m			[]			SEC
7.1.2	security-classification	o	m			[]			SEC
7.1.3	privacy-mark	o	m			[]			SEC
7.1.4	security-categories	o	m			[]			SEC
7.2	recipient-assigned-alternate-recipient	c	c	p10 #5		[]			
2	Result (NULL)	m	m			[]		8.4.1.1.2	
3	Errors							8.4.1.1.3	
1	RegisterRejected	m	m			[]			
2	RemoteBindError	n/a	n/a						

Note – The tables below shall be filled in, for an UA, if ChangeCredentials UA to MTA operation is supported (A.6.5.4.3).

A.6.6.4.2 MASE operation: ChangeCredentials UA to MTA		Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)	
1	Argument							8.4.1.2.1	
1	old-credentials	m	m			[]			
1.1	simple	m	m			[]			
1.1.1	IA5String	o	m			[]			
1.1.2	OCTET STRING	o	m			[]			
1.2	strong	c	c	p51		[]			SEC
1.2.1	bind-token	m	m			[]			SEC
1.2.1.1	signature-algorithm-identifier	m	m			[]			SEC
1.2.1.2	name	m	m			[]			SEC
1.2.1.3	time	m	m			[]			SEC
1.2.1.4	signed-data	o	o			[]			SEC
1.2.1.5	encryption-algorith-identifier	o	o			[]			SEC
1.2.1.6	encrypted-data	o	o			[]			SEC
1.2.2	certificate	o	o			[]			SEC
2	new-credentials	m	m			[]			
2.1	simple	m	m			[]			
2.1.1	IA5String	m	o			[]			
2.1.2	OCTET STRING	m	o			[]			
2.2	strong	c	c	p51		[]			SEC
2.2.1	bind-token	m	m			[]			SEC
2.2.1.1	signature-algorithm-identifier	m	m			[]			SEC
2.2.1.2	name	m	m			[]			SEC
2.2.1.3	time	m	m			[]			SEC
2.2.1.4	signed-data	o	o			[]			SEC
2.2.1.5	encryption-algorith-identifier	o	o			[]			SEC
2.2.1.6	encrypted-data	o	o			[]			SEC
2.2.2	certificate	o	o			[]			SEC
2	Result (NULL)	m	m			[]		8.4.1.2.2	
3	Errors							8.4.1.2.3	
1	NewCredentialsUnacceptable	m	m			[]			
2	OldCredentialsIncorrectlySpecified	m	m			[]			
3	RemoteBindError	n/a	n/a						

Note – The tables below shall be filled in, for an MTA, if ChangeCredentials MTA to UA operation is supported (see A.6.5.4.2).

A.6.6.4.3	MASE operation: ChangeCredentials MTA to UA	Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)	
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1	Argument							8.4.1.2.1	
1	old-credentials	m	m			[]			
1.1	simple	m	m			[]			
1.1.1	IA5String	m	m			[]			
1.1.2	OCTET STRING	m	m			[]			
1.2	strong	c	c	p51		[]			SEC
1.2.1	bind-token	m	m			[]			SEC
1.2.1.1	signature-algorithm-identifier	m	m			[]			SEC
1.2.1.2	name	m	m			[]			SEC
1.2.1.3	time	m	m			[]			SEC
1.2.1.4	signed-data	o	o			[]			SEC
1.2.1.5	encryption-algorith-identifier	o	o			[]			SEC
1.2.1.6	encrypted-data	o	o			[]			SEC
1.2.2	certificate	o	o			[]			SEC
2	new-credentials	m	m			[]			
2.1	simple	m	m			[]			
2.1.1	IA5String	m	m			[]			
2.1.2	OCTET STRING	m	m			[]			
2.2	strong	c	c	p51		[]			SEC
2.2.1	bind-token	m	m			[]			SEC
2.2.1.1	signature-algorithm-identifier	m	m			[]			SEC
2.2.1.2	name	m	m			[]			SEC
2.2.1.3	time	m	m			[]			SEC
2.2.1.4	signed-data	o	o			[]			SEC
2.2.1.5	encryption-algorith-identifier	o	o			[]			SEC
2.2.1.6	encrypted-data	o	o			[]			SEC
2.2.2	certificate	o	o			[]			SEC

2	Result (NULL)	m	m			[]		8.4.1.2.2	
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3	Errors							8.4.1.2.3	
1	NewCredentialsUnacceptable	m	m			[]			
2	OldCredentialsIncorrectlySpecified	m	m			[]			
3	RemoteBindError	n/a	n/a						

A.6.6.5 ORnames

ORNames consist of a mandatory address part and an optional directory-name part. The address part is a COMPONENT OF ORAddress. Recommendation X.402, 18.5 distinguishes five different types of ORAddress.

This subclause deals with remote MTS-user ORNames only. The register operation may enable the MTS-user to change its local ORName. An MD is not required to provide MTS-users with the ability to change their ORNames. If it does so, the MD may restrict that ability. It may prohibit certain MTS-users from changing their ORNames, or it may restrict the scope of the change to a locally defined subset of the components of their ORnames. A proposed new ORNames shall be rejected if it is already assigned to another MTS-user.

The five different types of ORAddress are presented in the table below.

A.6.6.5.1 ORnames Forms		Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)	
1	Mnemonic OR Address	m	m			[]		18.5.1	
2	Numeric OR Address	m	m			[]		18.5.2	
3	Terminal OR Address	m	m			[]		18.5.4	
4	Formatted Postal OR Address	m	m			[]		18.5.3	PHY
5	Unformatted Postal OR Address	m	m			[]		18.5.3	PHY

A.6.6.5.1.1 OR Name with Mnemonic OR Address		Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)	
1	OR Name address	m	m			[]		8.5.5	
1.1	country-name	m	m			[]			
1.1.1	x121-dcc-code	m	m			[]			
1.1.2	iso-3166-alpha2-code	m	m			[]			
1.2	administration-domain-name	m	m			[]			
1.2.1	numeric	m	m			[]			
1.2.2	printable	m	m			[]			
1.3	private-domain-name	m	m			[]			
1.3.1	numeric	m	m			[]			
1.3.2	printable	m	m			[]			
1.4	organization-name	m	m			[]			
1.5	personal-name	m	m			[]			
1.5.1	surname	m	m			[]			
1.5.2	given-name	m	m			[]			
1.5.3	initials	m	m			[]			
1.5.4	generational-qualifier	m	m			[]			
1.6	organizational-unit-names	m	m			[]			
1.6.2	OrganizationalUnitName	m	m			[]			
1.7	domain-defined-attributes	o	o			[]			
1.8	extension-attributes	m	m			[]			
1.8.1	CommonName	m	m			[]			
1.8.2	TeletexCommonName	m	m			[]			
1.8.3	TeletexOrganizationName	m	m			[]			
1.8.4	TeletexPersonalName	m	m			[]			
1.8.4.1	surname	m	m			[]			
1.8.4.2	given-name	m	m			[]			
1.8.4.3	initials	m	m			[]			
1.8.4.4	generational-qualifier	m	m			[]			
1.8.4.5	TeletexOrganizationalUnitNames	m	m			[]			
1.8.4.6	TeletexDomainDefinedAttributes	o	o			[]			
2	directory-name	o	o			[]			

A.6.6.5.1.2 OR Name with Numeric OR Address		Def UA	Def MTA	Note	Permitted range of values UA MTA		Impl	Value supported	Clause reference (Rec. X.411)
1	OR Name address	m	m				[]		
1.1	country-name	m	m				[]		
1.1.1	x121-dcc-code	m	m				[]		
1.1.2	iso-3166-alpha2-code	m	m				[]		
1.2	administration-domain-name	m	m				[]		
1.2.1	numeric	m	m				[]		
1.2.2	printable	m	m				[]		
1.3	private-domain-name	m	m				[]		
1.3.1	numeric	m	m				[]		
1.3.2	printable	m	m				[]		
1.4	numeric-user-identifier	m	m				[]		
1.5	domain-defined-attributes	o	m				[]		
2	directory-name	o	o				[]		

A.6.6.5.1.3 OR Name with Terminal OR Address		Def UA	Def MTA	Note	Permitted range of values UA MTA		Impl	Value supported	Clause reference (Rec. X.411)
1	OR Name address	m	m				[]		
1.1	country-name	m	m				[]		
1.1.1	x121-dcc-code	m	m				[]		
1.1.2	iso-3166-alpha2-code	m	m				[]		
1.2	administration-domain-name	m	m				[]		
1.2.1	numeric	m	m				[]		
1.2.2	printable	m	m				[]		
1.3	network-address	m	m				[]		
1.4	terminal-identifier	m	m				[]		
1.5	private-domain-name	m	m				[]		
1.5.1	numeric	m	m				[]		
1.5.2	printable	m	m				[]		
1.6	domain-defined-attributes	o	o				[]		
2	extension-attributes	m	m				[]		
2.1	ExtendedNetworkAddress	m	m				[]		
2.1.1	e163-4-address	m	m				[]		
2.1.1.1	number	m	m				[]		
2.1.1.2	sub-address	m	m				[]		
2.1.2	psap-address	m	m				[]		
2.2	TerminalType	m	m				[]		
3	directory-name	o	o				[]		

A.6.6.5.1.4 OR Name with FormattedPostal OR Address		Def UA	Def MTA	Note	Permitted range of values UA MTA	Impl	Value supported	Clause reference (Rec. X.411)	
1	OR Name	m	m			[]		8.5.5	PHY
	address	m	m			[]			
1.1	country-name	m	m			[]			
1.1.1	x121-dcc-code	m	m			[]			
1.1.2	iso-3166-alpha2-code	m	m			[]			
1.2	administration-domain-name	m	m			[]			
1.2.1	numeric	m	m			[]			
1.2.2	printable	m	m			[]			
1.3	private-domain-name	m	m			[]			
1.3.1	numeric	m	m			[]			
1.3.2	printable	m	m			[]			
1.4	extension-attributes	m	m			[]			
1.4.1	physical-delivery-country-name	m	m			[]			
1.4.1.1	x121-dcc-code	m	m			[]			
1.4.1.2	iso-3166-alpha2-code	m	m			[]			
1.4.2	physical-delivery-office-name	m	m			[]			
1.4.2.1	printable	m	m			[]			
1.4.2.2	teletex	m	m			[]			
1.4.3	physical-delivery-office-number	m	m			[]			
1.4.3.1	printable	m	m			[]			
1.4.3.2	teletex	m	m			[]			
1.4.4	physical-delivery-organization-name	m	m			[]			
1.4.4.1	printable	m	m			[]			
1.4.4.2	teletex	m	m			[]			
1.4.5	physical-delivery-personal-name	m	m			[]			
1.4.5.1	printable	m	m			[]			
1.4.5.2	teletex	m	m			[]			
1.4.6	postal code	m	m			[]			
1.4.6.1	numeric	m	m			[]			
1.4.6.2	printable	m	m			[]			
1.4.7	poste-restante-address	m	m			[]			
1.4.7.1	printable	m	m			[]			
1.4.7.2	teletex	m	m			[]			
1.4.8	post-office-box-address	m	m			[]			
1.4.8.1	printable	m	m			[]			
1.4.8.2	teletex	m	m			[]			
1.4.9	pds-name	m	m			[]			
1.4.10	street-address	m	m			[]			
1.4.10.1	printable	m	m			[]			
1.4.10.2	teletex	m	m			[]			
1.4.11	unique-postal-name	m	m			[]			
1.4.11.1	printable	m	m			[]			
1.4.11.2	teletex	m	m			[]			
1.4.12	extension-postal-OR-address-component	m	m			[]			
1.4.12.1	printable	m	m			[]			
1.4.12.2	teletex	m	m			[]			
1.4.13	extension-physical-delivery-address-components	m	m			[]			
1.4.13.1	printable	m	m			[]			
1.4.13.2	teletex	m	m			[]			
1.4.14	local-postal-attributes	m	m			[]			
1.4.14.1	printable	m	m			[]			
1.4.14.2	teletex	m	m			[]			
2	directory-name	o	o			[]			

A.6.6.5.1.5 OR Name with Unformatted Postal OR Address		Def UA	Def MTA	Note	Permitted range of values UA MTA		Impl	Value supported	Clause reference (Rec. X.411)	
1	OR Name address	m	m				[]		8.5.5	PHY
1.1	country-name	m	m				[]			
1.1.1	x121-dcc-code	m	m				[]			
1.1.2	iso-3166-alpha2-code	m	m				[]			
1.2	administration-domain-name	m	m				[]			
1.2.1	numeric	m	m				[]			
1.2.2	printable	m	m				[]			
1.3	private-domain-name	m	m				[]			
1.3.1	numeric	m	m				[]			
1.3.2	printable	m	m				[]			
1.4	extension-attributes	m	m				[]			
1.4.1	unformatted-postal-address	m	m				[]			
1.4.1.1	printable	m	m				[]			
1.4.1.2	teletex	m	m				[]			
1.4.2	physical-delivery-country-name	m	m				[]			
1.4.2.1	x121-dcc-code	m	m				[]			
1.4.2.2	iso-3166-alpha2-code	m	m				[]			
1.4.3	postal code	m	m				[]			
1.4.3.1	numeric	m	m				[]			
1.4.3.2	printable	m	m				[]			
1.4.4	pds-name	m	m				[]			
2	directory-name	o	o				[]			

A.6.6.6 *Parameters bounds*

A.6.6.6 Parameters bounds		Note	Upper bounds UA and MTA	Value supported	Comment
1	ub-integer-options		256	_____	
2	ub-queue-size		'7FFFFFFF'H	_____	
3	ub-content-length		'7FFFFFFF'H	_____	
4	ub-password-length		62	_____	
5	ub-bit-options		16	_____	
6	ub-content-types		1024	_____	
7	ub-tsap-id-length		16	_____	
8	ub-recipients		32767	_____	
9	ub-content-id-length		16	_____	
10	ub-x121-address-length		15	_____	
11	ub-mts-user-types		256	_____	
12	ub-reason-codes		32767	_____	

A.6.6.6 Parameters bounds		Note	Upper bounds UA and MTA	Value supported	Comment
13	ub-diagnostic-codes		32767	_____	
14	ub-supplementary-info-length		256	_____	
15	ub-extension-types		256	_____	
16	ub-recipient-number-for-advice-length		32	_____	
17	ub-content-correlator-length		512	_____	
18	ub-redirections		512	_____	
19	ub-dl-expansions		512	_____	
20	ub-built-in-content-type		32767	_____	
21	ub-local-id-length		32	_____	
22	ub-mhs-name		32	_____	
23	ub-country-name-numeric-length		3	_____	
24	ub-country-name-alpha-length		2	_____	
25	ub-domain-name-length		16	_____	
26	ub-terminal-id-length		24	_____	
27	ub-organization-name-length		64	_____	
28	ub-numeric-user-id-length		32	_____	
29	ub-surname-length		40	_____	
30	ub-given-name-length		16	_____	
31	ub-initials-length		5	_____	
32	ub-generation-qualifier		3	_____	
33	ub-organizational-units		4	_____	
34	ub-organizational-unit-name-length		32	_____	
35	ub-domain-defined-attributes		4	_____	
36	ub-domain-defined-attribute-type-length		8	_____	
37	ub-domain-defined-attribute-value-length		128	_____	
38	ub-extension-attributes		256	_____	
39	ub-common-name-length		64	_____	
40	ub-postal-code-length		16	_____	
41	ub-physical-address-lines		16	_____	
42	ub-unformatted-address-length		180	_____	

A.6.6.6 Parameters bounds		Note	Upper bounds UA and MTA	Value supported	Comment
43	ub-e163-4-number-length		15	_____	
44	ub-e163-4-sub-address-length		40	_____	
45	ub-built-in-encoded-information-types		32	_____	
46	ub-teletex-private-use-length		128	_____	
47	ub-encoded-information-types		1024	_____	
48	ub-security-label		256	_____	
49	ub-privacy-mark-length		128	_____	
50	ub-security-problems		256		
51	ub-security-categories		64	_____	
52	ub-labels-and-redirections		256	_____	
53	ub-transfer		512	_____	
54	ub-bilateral-info		1024	_____	
55	ub-additional-info		1024	_____	
56	ub-pds-name-length		16	_____	
57	ub-postal-code-length		16	_____	
58	ub-pds-parameter-length		30	_____	
59	ub-unformatted-address-length		180	_____	

A.6.7 *Negotiation capabilities*

“N/A”.

A.6.8 *Protocol Error Handling*

“N/A”.

A.6.9 *Other information*

The table below can be used to provide any other relevant information.

Ref. No.	Other information

A.7 *Multi-layer dependencies*

A.7.1 *Upper layers*

No modifications are imposed to the requirements by the upper layers (only IPMS has been considered).

A.7.2 *Lower layers*

The P3 protocol is defined in the following Application Contexts:

- ms-access;
- mts-forced-access;
- ms-reliable access;
- mts-forced-reliable-access.

Each of these Application Contexts imply the modifications shown in the tables below to the referenced elements within the appropriate PICS proforma.

A.7.2.1 *ROSE (Recommendation X.249)*

PICS Reference	mts-access		mts-reliable-access		mts-forced-access		mts-forced-reliable-access	
	UA	MTA	UA	MTA	UA	MTA	UA	MTA
A.6.4/2 A.6.5/2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A.6.14/2 A.6.15/2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

A.7.2.2 *RTSE (Recommendation X.248)*

PICS Reference	mts-access		mts-reliable-access		mts-forced-access		mts-forced-reliable-access	
	UA	MTA	UA	MTA	UA	MTA	UA	MTA
A.6.2.1.1 A.6.2.1.2	N/A	N/A	m	m	N/A	N/A	m	m
A.6.1.1 A.6.1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	m	N/A	N/A	N/A	m	m
	N/A	N/A	N/A	m	m	N/A	m	N/A

A.7.2.3 *ACSE (ISO/IEC DIS 8650-2)*

PICS Reference	mts-access		mts-reliable-access		mts-forced-access		mts-forced-reliable-access	
	UA		MTA		UA		MTA	
A.7.1	m	m	m	m	m	m	m	m
A.7.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A.8.1	m	N/A	m	N/A	N/A	m	N/A	m
A.8.2	N/A	m	N/A	m	m	N/A	m	N/A

A.7.2.4 *Presentation (ISO/IEC DIS 8823-2)*

PICS Reference	mts-access		mts-reliable-access		mts-forced-access		mts-forced-reliable-access	
	UA		MTA		UA		MTA	
A.7.1/1	m	m	m	m	m	m	m	m
A.7.1/2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A.7.2/1	m	N/A	m	N/A	N/A	m	N/A	m
A.7.2/2	N/A	m	N/A	m	m	N/A	m	N/A

