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X.486
(10/96)

SERIES X: DATA NETWORKS AND OPEN SYSTEM COMMUNICATION

Message Handling Systems

Messaging Handling Systems – Pedi protocol PICS proforma

ITU-T Recommendation X.486

(Previously "CCITT Recommendation")

Superseded by a more recent version

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FOREWORD

The ITU-T (Telecommunication Standardization Sector) is a permanent organ of the International Telecommunication Union (ITU). The ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1 (Helsinki, March 1-12, 1993).

ITU-T Recommendation X.486, was prepared by ITU-T Study Group 7 (1993-1996) and was approved under the WTSC Resolution No. 1 procedure on the 5th of October 1996.

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NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

CONTENTS

Superseded by a more recent version

SUMMARY

This Recommendation provides the Protocol Implementation Conformance Statement (PICS) proforma for the Pedi protocol specified in CCITT Rec. X.435 | ISO/IEC 10021-9. The PICS proforma presents in tabular form the mandatory and optional elements of the Pedi protocol.

INTRODUCTION

This Recommendation is one in a set of Recommendations defining Message Handling in a distributed open system environment.

Message Handling provides for the exchange of messages between users on a store-and-forward basis. A message submitted by one user (the originator) is transferred through the Message Transfer System (MTS) and delivered to one or more users (the recipients). The user's access is through a User Agent (UA).

To evaluate the capabilities of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a given OSI protocol. Such statement is called a Protocol Implementation Conformance Statement (PICS).

Recommendation X.486

MESSAGING HANDLING SYSTEMS – PEDI PROTOCOL PICS PROFORMA

(Geneva, 1996)

1   Scope

This Recommendation provides the Protocol Implementation Conformance Statement (PICS) proforma for the Pedi protocol specified in CCITT Rec. X.435 | ISO/IEC 10021-9 The PICS proforma presents in tabular form the mandatory and optional elements of the Pedi protocol.

This PICS proforma is based on the relevant guidance for PICS proformas given in Recommendation X.296. Details of the use of this proforma is provided in the Annex A.

2   Normative references

The following Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision: all users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published.

Amendments and corrigenda to the base Standards referenced are listed in Annex B.

NOTE – References to specific clauses of ITU-T Recommendations shall be considered to refer also to the corresponding clauses of the equivalent ISO/IEC Standards (as noted below) unless otherwise stated.

–   ITU-T Recommendation X.290 (1995), *OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – General concepts.* (See also ISO/IEC 9646-1.)

–   ITU-T Recommendation X.296 (1995), *OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – Implementation conformance statement.* (See also ISO/IEC 9646-7.)

–   CCITT Recommendation X.402 (1992), *Message handling systems: Overall architecture.* (See also ISO/IEC 10021-2.)

–   CCITT Recommendation X.435 (1991), *Message handling systems: Electronic data interchange messaging system.* (See also ISO/IEC 10021-9.)

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

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

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

–   ISO/IEC 10021-9:1995, *Information technology – Message Handling Systems (MHS) – Part 9: Electronic data Interchange Messaging System.*

3   Definitions

Terms used in this Recommendation are defined in the referenced base Standards.

4　　　Abbreviations

For the purposes of this Recommendation, the following abbreviations are used.

IEC　　　International Electrotechnical Commission

ISO　　　International Organization for Standardization

ISP　　　International Standardized Profile

MHS　　　Message Handling Systems

MS　　　Message Store

MTA　　　Message Transfer Agent

OSI　　　Open Systems Interconnection

PDU　　　Protocol Data Unit

PICS　　　Protocol Implementation Conformance Statement

UA　　　User Agent

Support level for protocol elements and features:

m　　　mandatory full support

o　　　optional support

c　　　conditional support

i　　　out of scope

–　　　not applicable

5　　　Conformance

A conforming PICS proforma shall be technically equivalent to the text of the PICS proforma in this Recommendation and shall preserve the numbering and ordering of the items in the PICS proforma in this Recommendation.

A PICS which conforms to this Recommendation shall:

　　a)　describe an implementation which conforms to CCITT Rec. X.435 | ISO/IEC 10021-9;

　　b)　be a conforming PICS proforma, which has been completed in accordance with the instructions for completion given in Annex A;

　　c)　include the information necessary to uniquely identify both the supplier and the implementation.

Annex A[1]

PICS Proforma for EDI messaging protocol (Pedi)
(This annex forms an integral part of this Recommendation)

In the event of a discrepancy becoming apparent in the body of this Recommendation and the tables in this annex, this annex is to take precedence.

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.

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[1] **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.

NOTE – The numbering of subclauses and items in this annex is identical to the one in ISO/IEC 12063-2 "Information technology – International Standardized Profiles AMH3n – Message Handling Systems – EDI Messaging – Part 2: AMH31 – EDIMG Content".

In each table, the "Base" column reflects the level of support required for conformance to the base standard, using the classification and notation defined in A.0.2.5.

The "Ref" column is provided for cross-referencing purposes. The notation employed for references also indicates composite elements which contain sub-elements (a sub-element reference is prefixed by the reference of the composite element).

Contents of the PICS proforma

A.0   Identification of the implementation

A.0.1   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.486 (1996)

Corr:
Corr:
Corr:
Corr:
Implementors' Guide version:

A.0.2   Instructions

A.0.2.1   Purpose of the proforma

The purpose of the PICS proforma is to provide suppliers of implementations of the Pedi 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.0.2.2   Symbols, terms and abbreviations

The following definitions apply.

A.0.2.3   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 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.0.2.4   Base column

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

     NOTE 1 – The Profile column is used for functional profiles and uses the same classification.

The classification of information objects and items (elements) is relative to that of the containing information 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 shall be 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.

     NOTE 2 – In the case of character repertoires, mandatory support implies that the EDIMG UA implementation is able to generate and/or receive the encodings of all characters within those repertoires. How graphic characters are originated and rendered is outside the scope of this ISP.

     NOTE 3 – Where required by the base standards, mandatory support also implies that the EDIMG UA implementation is able to pass the element on the origination port/reception port to/from the corresponding element on the submission port/delivery port/retrieval port.

optional support (**o**): An implementation is not required to support the element. If support is claimed, then the element shall be treated as if it were specified as mandatory support. If the element is not supported on reception, then it shall be ignored.

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.0.2.5 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 profile support classification).

Y-   The element or feature is minimally supported (i.e. satisfying the requirements of the m- profile support classification).

N   The element or feature is not supported, further qualified to indicate the action taken on receipt of such an element as follows:

                        ND – the element is discarded/ignored;
                        NR – the PDU is rejected (with an appropriate error indication where applicable).

– or blank   The element or feature is not applicable (i.e. a major feature or composite protocol element which includes this element or feature is not supported or is minimally supported).

A.0.3   Identification of the implementation

A.0.3.1   Date of statement

Ref.	Question	Response
1	Date of statement (DD/MM/YY)	

A.0.3.2   Identification of IUT

Ref.	Question	Response
1	Implementation name	
2	Implementation version	
3	Hardware name	
4	Hardware version	
5	Operating system name	
6	Operating system version	
7	Special configuration	
8	Other information	

A.0.3.3   Identification of supplier

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

A.0.3.4 Identification of protocol

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

A.0.3.5 Global statement of conformance

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

A.1 Basic requirements

A.1.1 General objects and data types

A.1.1.1 General information objects

The following table classifies the information objects for EDIMG.

Ref.	Element	Origination		Reception		Support	Notes/References
		Base		Base			
1	EDI Message (EDIM)	m		m			
1.1	heading	m		m			A.1.2
1.2	body	m		m			A.1.3.1
2	EDI Notification (EDIN)	m		m			
2.1	positive-notification	m		m			A.1.4.2
2.2	negative-notification	m		m			A.1.4.3
2.3	forwarded-notification	c[1]		m			A.1.4.4
[1] If forwarding is supported then m else –.							

A.1.1.2 Common data types

The following table classifies the common data types (subclause 7.1/X.435 and 7.2/X.435).

Ref.	Element	Origination		Reception		Support	Notes/References
		Base		Base			
1	EDIMIdentifier						
1.1	user	m		m			
1.2	user-relative-identifier	m		m			
2	Extension-field						
2.1	type	m		m			
2.2	criticality	m		m			
2.3	value	m		m			

A.1.2 EDIM heading fields

This subclause expands A.1.1.1/1.1 (subclause 8.2/X.435).

Ref.	Element	Origination		Reception		Support	Notes/References
		Base		Base			
1	this-EDIM	m		m			
2	originator	m		m			
3	recipients	m		m			A.1.2.1
4	edin-receiver	o		m			A.1.2.6
5	responsibility-forwarded	o		m			
6	edi-bodypart-type	m		m			A.1.5
7	incomplete-copy	o		m			
8	expiry-time	o		m			
9	related-messages	o		m			A.1.2.7
10	obsoleted-EDIMs	o		m			
11	edi-application-security-elements	o		o			A.1.2.8
12	cross-referencing-information	o		m			A.1.2.9
13	edi-message-type	m		m			
14	service-string-advice	o		o			A.1.2.10
15	syntax-identifier	o		o			A.1.2.11
16	interchange-sender	o		o			A.1.2.12
17	date-and-time-of-preparation	o		o			
18	application-reference	o		o			
19	heading-extensions	o		o			

A.1.2.1   EDIM heading per-recipient fields

This subclause expands A.1.2/3 (subclause 8.2.3/X.435).

Ref.	Element	Origination		Reception		Support	Notes/References
		Base		Base			
1	recipient	m		m			
2	action-request	o		m			
3	edi-notification-request	m		m			A.1.2.2
4	responsibility-passing-allowed	m		m			
5	interchange-recipient	o		o			A.1.2.3
6	recipient-reference	o		o			A.1.2.4
7	interchange-control-reference	o		o			
8	processing-priority-code	o		o			
9	acknowledgement-request	o		o			
10	communications-agreement-id	o		o			
11	test-indicator	o		o			
12	authorization-information-field	o		o			A.1.2.5
13	recipient-extensions	o		o			

A.1.2.2   EDI notification request field

This subclause expands A.1.2.1/3 (subclause 8.2.3.3/X.435).

Ref.	Element	Origination		Reception		Support	Notes/References
		Base		Base			
1	edi-notification-request	m		m			
2	edi-notification-security	o		o			
3	edi-reception-security	o		o			

A.1.2.3   Interchange recipient field

This subclause expands A.1.2.1/5 (subclause 8.2.3.5/X.435).

Ref.	Element	Origination		Reception		Support	Notes/References
		Base		Base			
1	recipient-information	m		m			
2	identification-code-qualifier	o		m			
3	routing-address	o		m			

A.1.2.4   Recipient reference field

This subclause expands A.1.2.1/6 (subclause 8.2.3.6/X.435).

Ref.	Element	Origination		Reception		Support	Notes/References
		Base		Base			
1	recipient-reference	m		m			
2	recipient-reference-qualifier	o		m			

A.1.2.5   Authorization information field

This subclause expands A.1.2.1/12 (subclause 8.2.3.12/X.435).

Ref.	Element	Origination		Reception		Support	Notes/References
		Base		Base			
1	authorization-information	m		m			
2	authorization-information-qualifier	o		m			

A.1.2.6   EDIN receiver field

This subclause expands A.1.2/4 (subclause 8.2.4/X.435).

Ref.	Element	Origination		Reception		Support	Notes/References
		Base		Base			
1	edin-receiver-name	m		m			
2	original-edim-identifier	o		o			
3	first-recipient	o		o			

A.1.2.7   Related message reference

This subclause expands A.1.2/9 (subclause 8.2.9/X.435).

Ref.	Element	Origination		Reception		Support	Notes/References
		Base		Base			
1	edi-message-reference	o		m			
2	external-message-reference	o		o			

A.1.2.8   EDI application security elements field

This subclause expands A.1.2/11 (subclause 8.2.11/X.435).

Ref.	Element	Origination		Reception		Support	Notes/References
		Base		Base			
1	edi-application-security-elements	o		m			
2	edi-encrypted-primary-bodypart	o		m			
3	edi-application-security-extensions	o		o			

A.1.2.9   Cross reference information subfield

This subclause expands A.1.2/12 (subclause 8.2.12/X.435).

Ref.	Element	Origination		Reception		Support	Notes/References
		Base		Base			
1	application-cross-reference	m		m			
2	message-reference	o		m			
3	body-part-reference	m		m			

A.1.2.10   Service string advice field

This subclause expands A.1.2/14 (subclause 8.2.14/X.435).

Ref.	Element	Origination		Reception		Support	Notes/References
		Base		Base			
1	component-data-element-separator	m		m			
2	data-element-separator	m		m			
3	decimal-notation	m		m			
4	release-indicator	o		m			
5	reserved	o		o			
6	segment-terminator	m		m			

A.1.2.11   Syntax identifier field

This subclause expands A.1.2/15 (subclause 8.2.15/X.435).

Ref.	Element	Origination		Reception		Support	Notes/References
		Base		Base			
1	syntax-identifier	m		m			
2	syntax-version	m		m			

A.1.2.12 Interchange sender field

This subclause expands A.1.2/16 (subclause 8.2.16/X.435).

Ref.	Element	Origination		Reception		Support	Notes/References
		Base		Base			
1	sender-identification	m		m			
2	identification-code-qualifier	o		m			
3	address-for-reverse-routing	o		m			

A.1.3 Body

A.1.3.1 EDIM body fields

This subclause expands A.1.1.1/1.2 (clause 8/X.435).

Ref.	Element	Origination		Reception		Support	Notes/References
		Base		Base			
1	primary-body-part	m		m			
1.1	edi-body-part	m		m			
1.2	forwarded-EDIM	o		o			A.1.3.2
2	additional-body-parts	o		m,1			A.1.3.3

A.1.3.2 EDIM body part

This subclause expands A.1.3.1/1.2 (subclause 8.3.2/X.435).

Ref.	Element	Origination		Reception		Support	Notes/References
		Base		Base			
1	parameters	o		m			
1.1	delivery-time	o		m			
1.2	delivery-envelope	o		m			
1.3	other-parameters	o		o			
2	data	m		m			
2.1	heading	m		m			
2.2	body	m		m			
2.2.1	primary-or-removed	m		m			
2.2.1.1	removed-edi-body	o		m			
2.2.1.2	primary-body-part	m		m			A.1.3.1
2.2.2	additional-body-parts	o		m			
2.2.2.1	external-body-part	m		m			A.1.3.3
2.2.2.2	place-holder	o		m			

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A.1.3.3   EDIM externally defined body part

This subclause expands A.1.3.2/2.2.2.1 (subclause 8.3.3/X.435).

Ref.	Element	Origination		Reception		Support	Notes/References
		Base		Base			
1	body-part-reference	o		m			
2	external-body-part	m		m			A.3.4

A.1.4   EDIN fields

A.1.4.1   EDIN common fields

This subclause expands A.1.4.2/1 and A.1.4.3/1 and A.1.4.4/1 (subclause 9.1/X.435).

Ref.	Element	Origination		Reception		Support	Notes/References
		Base		Base			
1	subject-edim	m		m			
2	edin-originator	m		m			
3	first-recipient	o		m			
4	notification-time	m		m			
5	notification-security-elements	o		o			
5.1	original-content	o		o			
5.2	original-content-integrity-check	o		o			
5.3	edi-application-security-elements	o		o			
5.4	security-extensions	o		o			
6	edin-initiator	m		m			
7	notification-extensions	o		o			

A.1.4.2   PN fields

This subclause expands A.1.1.1/2.1 (subclause 9.2/X.435).

Ref.	Element	Origination		Reception		Support	Notes/References
		Base		Base			
1	pn-common-fields	m		m			A.1.4.1
2	pn-supplementary-information	o		o			
3	pn-extensions	o		o			

A.1.4.3 NN fields

This subclause expands A.1.1.1/2.2 (subclause 9.3/X.435).

Ref.	Element	Origination		Reception		Support	Notes/References
		Base		Base			
1	nn-common-fields	m		m			A.1.4.1
2	nn-reason-code	m		m			
2.1	nn-ua-ms-reason-code	o		m			
2.1.1	nn-user-basic-code	m		m			
2.1.2	nn-user-diagnostic	o		o			
2.2	nn-user-reason-code	o		m			
2.2.1	nn-user-basic-code	m		m			
2.2.2	nn-user-diagnostic	o		m			
2.3	nn-pdau-reason-code	o		m			
2.3.1	nn-pdau-basic-code	m		m			
2.3.2	nn-pdau-diagnostic	o		m			
3	nn-supplementary-information	o		o			
4	nn-extensions	o		o			

A.1.4.4 FN fields

This subclause expands A.1.1.1/2.3 (subclause 9.4/X.435).

Ref.	Element	Origination		Reception		Support	Notes/References
		Base		Base			
1	fn-common-fields	m		m			A.1.4.1
2	forwarded-to	m		m			
3	fn-reason-code	m		m			
3.1	fn-ua-ms-reason-code	o		m			
3.1.1	fn-ua-ms-basic-code	m		m			
3.1.2	fn-ua-ms-diagnostic	o		m			
3.1.3	fn-security-check	o		m			
3.2	fn-user-reason-code	o		m			
3.2.1	fn-user-basic-code	m		m			
3.2.2	fn-user-diagnostic	o		m			
3.3	fn-pdau-reason-code	o		m			
3.3.1	fn-pdau-basic-code	m		m			
3.3.2	fn-pdau-diagnostic	o		m			
4	fn-supplementary-information	o		o			
5	fn-extensions	o		o			

A.1.5 Body part types

This subclause expands A.1.2/6 (subclause 8.2.6/X.435).

It shall be indicated below which EDI body part types are supported. An implementation shall meet the requirements of one or both of body part type groups A and B.

EDI body part types for private defined syntaxes shall be specified in A.3.5.

Ref.	EDI body part type	Origination		Reception		Support	Notes/References
		A	B	A	B		
1	EDIFACT ISO 646	m	m	m	m		
2	EDIFACT T.61	o	o	o	o		
3	EDIFACT ISO 8859	o	m	o	m		
4	EDIFACT undefined octets	o	o	o	o		
5	ANSIX12 ISO 646	o	o	o	o		
6	ANSIX12 T.61	o	o	o	o		
7	ANSIX12 ISO 8859	o	o	o	o		
8	ANSIX12 undefined octets	o	o	o	o		
9	UNTDI ISO 646	o	o	o	o		
10	UNTDI T.61	o	o	o	o		
11	UNTDI undefined octets	o	o	o	o		
12	Private undefined octets[1]	o	o	o	o		
13	Undefined undefined octets[1]	o	o	o	o		
14	Privately defined	o	o	o	o		A.3.5
[1] The use of this body part type is deprecated.							

NOTE – The requirements for body part type group B derived from the sets of countries and languages are broadly represented by both the European Workshop for Open Systems (EWOS) and the North American OSE Implementors' Workshop (OIW). Further body part type groups may be defined in future versions of this ISP.

A.1.6 O/R name forms

Ref.	Body part types and EITs	Origination		Reception		Support	Notes/References
		Base		Base			
1	mnemonic O/R address	o		o			
2	numeric O/R address	o		o			
3	terminal O/R address	o		o			

A.2 Optional functional groups

Not applicable for the base standard PICS.

NOTE – The numbering of subclauses and items in this annex is identical to the one in ISO/IEC 12063-2.

A.3 Additional information

A.3.1 Element of Service support

The following table shall be completed to indicate (Y or ✓), for each Element of Service, whether the Element of Service is made available to the EDIMG-user and, if so, how this is achieved. Where support for origination and reception cannot be covered by a single indication, then both shall be indicated.

The columns have the following meanings:

Service   the EoS can be made dynamically selectable by the EDIMG-user (i.e. for invocation and/or notification, as appropriate) without requiring reconfiguration of the UA or other intervention in each instance (whether the semantics of the EoS are available at a human user interface, programmatic interface or by other means may be specified in the Comments column).

Auto   the EoS is automatically invoked/actioned by the UA without reference to the EDIMG-user (whether selection is dynamically determined based on some other knowledge or criteria may be specified in the Comments column).

Config   the UA may be configured to select the EoS by the execution of some off-line process.

Other   any other means of using the EoS.

Ref.	Element of Service	Service	Auto	Config	Comments/Other
1	Access Management				
2	Additional Physical Rendition				
3	Alternate Recipient Allowed				
4	Alternate Recipient Assignment				
5	Application Security Element				
6	Basic Physical Rendition				
7	Character Set				
8	Content Confidentiality				
9	Content Integrity				
10	Content Type Indication				
11	Conversion Prohibition				
12	Conversion Prohibition in Case of Loss of Information				
13	Converted Indication				
14	Counter Collection				
15	Counter Collection with Advice				
16	Cross Reference Information				
17	Deferred Delivery				
18	Deferred Delivery Cancellation				
19	Delivery Notification				
20	Delivery Time Stamp Indication				
21	Delivery via Bureaufax Service				
22	Designation of Recipient by Directory Name				

Ref.	Element of Service	Service	Auto	Config	Comments/Other
23	Disclosure of Other Recipients				
24	DL Expansion History Indication				
25	DL Expansion Prohibited				
26	EDI Forwarding				
27	EDI Message Identification				
28	EDI Message Type(s)				
29	EDI Notification Request				
30	EDI Standard Indication				
31	EDIM Responsibility Forwarding Allowed Indication				
32	EDIN Receiver				
33	EMS (Express Mail Service)				
34	Expiry Date/Time Indication				
35	Explicit Conversion				
36	Grade of Delivery Selection				
37	Hold for Delivery				
38	Implicit Conversion				
39	Incomplete Copy Indication				
40	Interchange Header				
41	Latest Delivery Designation				
42	Message Flow Confidentiality				
43	Message Identification				
44	Message Origin Authentication				
45	Message Security Labelling				
46	Message Sequence Integrity				
47	MS Register				
48	Multi-destination Delivery				
49	Multi-part Body				
50	Non-delivery Notification				
51	Non-repudiation of Content Originated				
52	Non-repudiation of Content Received				
53	Non-repudiation of Content Received Request				
54	Non-repudiation of Delivery				

Ref.	Element of Service	Service	Auto	Config	Comments/Other
55	Non-repudiation of EDI Notification				
56	Non-repudiation of EDI Notification Request				
57	Non-repudiation of Origin				
58	Non-repudiation of Submission				
59	Obsoleting Indication				
60	Ordinary Mail				
61	Original Encoded Information Types Indication				
62	Originator Indication				
63	Originator Requested Alternate Recipient				
64	Physical Delivery Notification by MHS				
65	Physical Delivery Notification by PDS				
66	Physical Forwarding Allowed				
67	Physical Forwarding Prohibited				
68	Prevention of Non-delivery Notification				
69	Probe				
70	Probe Origin Authentication				
71	Proof of Content Received				
72	Proof of Content Received Request				
73	Proof of Delivery				
74	Proof of EDI Notification				
75	Proof of EDI Notification Request				
76	Proof of Submission				
77	Recipient Indication				
78	Redirection Disallowed by Originator				
79	Redirection of Incoming Messages				
80	Registered Mail				
81	Registered Mail to Addressee in Person				
82	Related Message(s)				
83	Report Origin Authentication				

Ref.	Element of Service	Service	Auto	Config	Comments/Other
84	Request for Forwarding Address				
85	Requested Preferred Delivery Method				
86	Restricted Delivery				
87	Return of Content				
88	Secure Access Management				
89	Services Indication				
90	Special Delivery				
91	Stored EDI Message Auto-forward				
92	Stored Message Alert				
93	Stored Message Auto-forward				
94	Stored Message Deletion				
95	Stored Message Fetching				
96	Stored Message Listing				
97	Stored Message Summary				
98	Submission Time Stamp Indication				
99	Typed Body				
100	Undeliverable Mail with Return of Physical Message				
101	Use of Distribution List				
102	User/UA Capabilities Registration				

A.3.2 Miscellaneous information

	Question	Answer
1	Which EDIN reason codes values is the implementation able to generate?	
2	What is the maximum number of recipients that the implementation is able to handle on origination?	
3	What is the maximum number of recipients the implementation is able to handle on reception?	
4	What is the maximum message length the implementation is able to handle?	
5	Has the EDI-UA chosen to check for the semantic equivalence of elements common to the EDI information in the EDI body part and the EDIM header? (no checking, on origination, on reception or on origination and reception)	

A.3.3 **Information related to forwarding**

	Question	Answer
1	Is there any limitation on the level of nesting of forwarded messages?	
2	Forwarding class AF What are the criteria available to the EDIMG-user to specify automatic forwarding?	
3	Forwarding class AF How is automatic forwarding invoked?	
4	Is removal of body parts supported?	

A.3.4 **Externally defined body parts**

	Externally defined body parts	Origination	Reception
1	Any externally defined body part		
2	Specific externally defined body parts:		

A.3.5 **EDI body part types for Privately defined syntaxes**

	EDI body part types	Origination	Reception
1	Any EDI body part type		
2	Specific EDI body part types:		

Annex B

Amendments and corrigenda

(This annex forms an integral part of this Recommendation)

Corrigenda to the referenced Recommendations are contained in the joint MHS Implementors' Guide, Version 11, March 1994 (ITU Special Rapporteur's Group on Message Handling Systems and ISO/IEC JTC1/SC18/WG4 SWG on Messaging).

The following amendments and corrigenda to the equivalent International Standards are considered as normative references in this Recommendation.

ISO/IEC 10021-1/Cor.1:1991	ISO/IEC 10021-2/Cor.1:1991	ISO/IEC 10021-1/Am.2:1994
ISO/IEC 10021-1/Cor.2:1991	ISO/IEC 10021-2/Cor.2:1991	ISO/IEC 10021-2/Am.1:1994
ISO/IEC 10021-1/Cor.3:1992	ISO/IEC 10021-2/Cor.3:1992	ISO/IEC 10021-2/Am.2:1994
ISO/IEC 10021-1/Cor.4:1992	ISO/IEC 10021-2/Cor.4:1992	
ISO/IEC 10021-1/Cor.5:1992	ISO/IEC 10021-2/Cor.5:1993	
ISO/IEC 10021-1/Cor.6:1994	ISO/IEC 10021-2/Cor.6:1994	
	ISO/IEC 10021-2/Cor.7:1994	

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