

INTERNATIONAL STANDARD

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AMENDMENT 1
1996-07-15

Information technology — Telecommunications and information exchange between systems — Elements of management information related to OSI Network Layer standards

AMENDMENT 1:

Implementation conformance statement proformas

*Technologies de l'information — Télécommunications et échange
d'information entre systèmes — Éléments d'information de gestion
concernant les normes de la couche Réseau OSI*

*AMENDEMENT 1: Proformes de déclaration de conformité de mise en
œuvre*



Reference number
ISO/IEC 10733:1993/Amd.1:1996(E)

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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75% of the national bodies casting a vote.

Amendment 1 to International Standard ISO/IEC 10733 : 1993 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*.

This Amendment is also published by ITU-T as Rec. X.283/Amd. 1 but not as identical text.

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Information technology – Telecommunications and information exchange between systems – Elements of management information related to OSI Network Layer standards

AMENDMENT 1:

Implementation conformance statement proformas

Page 1

Add the following as the last paragraph of Clause 1 "Scope".

"

Annexes D, E, F and G, which are integral parts of this International Standard provide ICS proformas associated with Network layer management information.

"

Add the following reference to subclause 2.1:

"

- ITU-T Recommendation X.724 (1993) | ISO/IEC 10165-6: 1994, *Information technology - Open Systems Interconnection - Structure of management information: Requirements and guidelines for implementation conformance statement proformas associated with OSI management*.

"

Page 2

Add the following references to subclause 2.2:

"

- CCITT Recommendation X.209 (1988), *Specification of basic encoding rules for abstract syntax notation one (ASN.1)*.
ISO/IEC 8825: 1990, *Information technology - Open Systems Interconnection - Specification of Basic Encoding Rules for Abstract Syntax Notation One (ASN.1)*.
- CCITT Recommendation X.290 (1991), *OSI conformance testing methodology and framework for protocol Recommendations for CCITT applications - General concepts*.

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

- CCITT Recommendation X.291 (1992), *OSI conformance testing methodology and framework for protocol Recommendations for CCITT applications - Abstract test suite specification*.

ISO/IEC 9646-2: 1994, *Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract Test Suite specification*.

NOTE – ISO/IEC 9646-1:1994 and ISO/IEC 9646-2:1994 supersede ISO/IEC 9646-1:1991 and ISO/IEC 9646-2:1991 respectively. However, when this International Standard was under development, the previous editions were valid and this International Standard is therefore based on these editions, which are listed below.

ISO/IEC 9646-1: 1991, *Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts*.

ISO/IEC 9646-2: 1991, *Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract test suite specification*.

- ITU-T Recommendation X.296 (1995), *OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications - Implementation Conformance Statements*.

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

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

"

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Add the following abbreviations to clause 4:

"

MCS	management conformance summary
MICS	management information conformance statement
MOCS	managed object conformance statement
MRCS	managed relationship conformance statement

"

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Replace clause 7 with the following:

"

7 Conformance

Implementations claiming to conform to this International Standard shall comply with the conformance requirements as defined in the following subclauses.

7.1 Conformance requirements to this International Standard

7.1.1 Static conformance

The implementation shall conform to the requirements of this International Standard in the manager role, the agent role, or both roles. A claim of conformance to at least one role shall be made in Table D.1 of this International Standard.

If a claim of conformance is made for support in the manager role, the implementation shall support at least one management operation or notification or action of the managed objects specified by this International Standard. The conformance requirements in the manager role for those management operations, notifications and actions are identified in Table D.3 and further tables referenced by Annex D.

If a claim of conformance is made for support in the agent role, the implementation shall support one or more instances of the network subsystem managed object class identified in Table D.4 of this International Standard and further tables referenced by Annex D.

If a claim of conformance is made for support in the agent role, the implementation shall support at least one name binding identified in Table D.7 of this International Standard for each supported managed object.

The implementation shall support the transfer syntax derived from the encoding rules specified in CCITT Rec. X.209 | ISO/IEC 8825 named {joint-iso-ccitt asn1(1) basicEncoding(1)} for the abstract data types referenced by the definitions for which support is claimed.

7.1.2 Dynamic conformance

Implementations claiming to conform to this International Standard shall support the elements of procedure and definitions of semantics corresponding to the definitions for which support is claimed.

7.1.3 Management implementation conformance statement requirements

Any MCS proforma, MICS proforma, MOCS proforma, and MRCS proforma which conform to this International Standard shall be technically identical to the proformas specified in Annexes D, E, F, and G preserving table numbering and the index numbers of items, and differing only in pagination and page headers.

The supplier of an implementation which is claimed to conform to this International Standard shall complete a copy of the management conformance summary (MCS) provided in Annex D as part of the conformance requirements together with any other ICS proformas referenced as applicable from that MCS. Any MCS, MICS, MOCS, and MRCS which conform to this International Standard shall:

- describe an implementation which conforms to this International Standard;
- have been completed in accordance with the instructions for completion given in ITU-T Rec. X.724 | ISO/IEC 10165-6;
- include the information necessary to uniquely identify both the supplier and the implementation.

7.2 Protocol specific conformance requirements

The supplier of an implementation which is claimed to conform to this International Standard shall support at least one protocol identified in Table D.2 of this International Standard.

7.2.1 Conformance to the CLNS

An implementation claiming conformance to the CLNS in the agent role as a managed implementation shall:

- a) conform to ITU-T Recommendation X.283 | ISO/IEC 10733 as defined in 7.1;
- b) support the network entity MO, the CLNS MO, the NSAP MO and the linkage MO.

7.2.2 Conformance to the CONS

An implementation claiming conformance to the CONS in the agent role as a managed implementation shall:

- a) conform to ITU-T Recommendation X.283 | ISO/IEC 10733 as defined in 7.1;
- b) support the network entity MO, the CONS MO, the NSAP MO, the network connection MO and the linkage MO.

7.2.3 Conformance to the X.25 DTE

An implementation claiming conformance to the X.25 DTE in the agent role as a managed implementation shall:

- a) conform to ITU-T Recommendation X.283 | ISO/IEC 10733 as defined in 7.1;
- b) support the X25 PLE DTE MO and at least one class derived from the virtual circuit DTE.

7.2.4 Conformance to the X.25 DCE

An implementation claiming conformance to the X.25 DCE in the agent role as a managed implementation shall:

- a) conform to ITU-T Recommendation X.283 | ISO/IEC 10733 as defined in 7.1;
- b) support the X25 PLE DCE MO and at least one class derived from the virtual circuit DCE.

"

Annex D (normative)

MCS proforma¹⁾

D.1 Introduction

D.1.1 Purpose and structure

The management conformance summary (MCS) is a statement by a supplier that identifies an implementation and provides information on whether the implementation claims conformance to any of the listed set of documents that specify conformance requirements to OSI management.

The MCS proforma is a document, in the form of a questionnaire that when completed by the supplier of an implementation becomes the MCS.

D.1.2 Instructions for completing the MCS proforma to produce an MCS²⁾

The supplier of the implementation shall enter an explicit statement in each of the boxes provided. Specific instruction is provided in the text which precedes each table.

D.1.3 Symbols, abbreviations and terms

For all annexes of this International Standard, the following common notations, defined in CCITT Rec. X.291 | ISO/IEC 9646-2 and ITU-T Rec. X.296 | ISO/IEC 9646-7 are used for the Status column:

- m mandatory;
- o optional;
- c conditional;
- x prohibited;
- not applicable or out of scope.

NOTES

1 – 'c', 'm', and 'o' are prefixed by a 'c' when nested under a conditional or optional item of the same table;

2 – 'o' may be suffixed by '.N' (where N is a unique number) for mutually exclusive or selectable options among a set of status values. Support of at least one of the choices (from the items with the same values of N) is required.

For all annexes of this International Standard, the following common notations, defined in CCITT Rec. X.291 | ISO/IEC 9646-2 and ITU-T Rec. X.296 | ISO/IEC 9646-7 are used for the Support column:

- Y implemented;
- N not implemented;
- no answer required;
- Ig the item is ignored (i.e. processed syntactically but not semantically).

¹⁾ Users of this International Standard may freely reproduce the MCS proforma in this annex so that it can be used for its intended purpose, and may further publish the completed MCS.

²⁾ Instructions for completing the MCS proforma are specified in ITU-T Rec.X.724 | ISO/IEC 10165-6 .

D.2 Identification of the implementation

D.2.1 Date of statement

The supplier of the implementation shall enter the date of this statement in the box below. Use the format DD-MM-YYYY.

Date of statement

D.2.2 Identification of the implementation

The supplier of the implementation shall enter information necessary to uniquely identify the implementation and the system(s) in which it may reside, in the box below.

D.2.3 Contact

The supplier of the implementation shall provide information on whom to contact if there are any queries concerning the content of the MCS, in the box below.

D.3 Identification of the International Standard in which the management information is defined

The supplier of the implementation shall enter the title, reference number and date of the publication of the International Standard which specifies the management information to which conformance is claimed, in the box below.

International Standard to which conformance is claimed

D.3.1 Technical corrigenda implemented

The supplier of the implementation shall enter the reference numbers of implemented technical corrigenda which modify the identified International Standard, in the box below.

D.3.2 Amendments implemented

The supplier of the implementation shall state the titles and reference numbers of implemented amendments to the identified International Standard, in the box below.

--

D.4 Management conformance summary

The supplier of implementation shall state the capabilities and features supported and provide summary of conformance claims to Recommendations | International Standards using the tables in this annex.

The supplier of the implementation shall specify the roles that are supported, in Table D.1

Table D.1 – Roles

Index	Roles supported	Status	Support	Additional information
1	Manager role support	o.1		
2	Agent role support	o.1		

The supplier of the implementation shall specify the protocols that are supported, in Table D.2

Table D.2 – Protocol

Index	Protocol supported	Status	Support	Additional information
1	CONS support	o.2		
2	CLNS support	o.2		
3	X.25-DTE support	o.2		
4	X.25-DCE support	o.2		

The supplier of the implementation shall specify support for management information in the manager role, in Table D.3

Table D.3 – Manager role minimum conformance requirement

Index	Item	Status	Support	Additional information
1	Operations on managed objects	c1		
2	Activate action for Connectionless-mode network service managed object	c2		
3	Deactivate action for Connectionless-mode network service managed object	c2		
4	Communications Alarm notification for Connectionless-mode network service managed object	c2		
5	Communications information notification for Connectionless-mode network service managed object	c2		
6	Object creation notification for Connectionless-mode network service managed object	c2		
7	Object deletion notification for Connectionless-mode network service managed object	c2		
8	State change notification for Connectionless-mode network service managed object	c2		
9	Activate action for Connection-mode network service managed object	c3		
10	Deactivate action for Connection-mode network service managed object	c3		
11	Deactivate when no users action for Connection-mode network service managed object	c3		
12	Object creation notification for Connection-mode network service managed object	c3		
13	Object deletion notification for Connection-mode network service managed object	c3		

Table D.3 (concluded) – Manager role minimum conformance requirement

Index	Item	Status	Support	Additional information
14	State change notification for Connection-mode network service managed object	c3		
15	Object creation notification for D series counts managed object	c1		
16	Object deletion notification for D series counts managed object	c1		
17	Activate action for Linkage managed object	c4		
18	Deactivate action for Linkage managed object	c4		
19	Communications Alarm notification for Linkage managed object	c4		
20	Communications information notification for Linkage managed object	c4		
21	Object creation notification for Linkage managed object	c4		
22	Object deletion notification for Linkage managed object	c4		
23	State change notification for Linkage managed object	c4		
24	Object creation notification for NSAP managed object	c4		
25	Object deletion notification for NSAP managed object	c4		
26	Deactivate action for Network connection managed object	c4		
27	Communications information notification for Network connection managed object	c3		
28	Object creation notification for Network connection managed object	c3		
29	Object deletion notification for Network connection managed object	c3		
30	Object creation notification for Network entity managed object	c3		
31	Object deletion notification for Network entity managed object	c3		
32	Object creation notification for Permanent virtual circuit -DCE managed object	c5		
33	Object deletion notification for Permanent virtual circuit -DCE managed object	c5		
34	State change notification for Permanent virtual circuit -DCE managed object	c5		
35	Object creation notification for Permanent virtual circuit -DTE managed object	c6		
36	Object deletion notification for Permanent virtual circuit -DTE managed object	c6		
37	Communications information notification for Virtual call-DCE managed object	c6		
38	Object creation notification for Virtual call-DCE managed object	c5		
39	Object deletion notification for Virtual call-DCE managed object	c5		
40	Deactivate action for Virtual call-DTE managed object	c6		
41	Communications information notification for Virtual call-DTE managed object	c6		
42	Object creation notification for Virtual call-DTE managed object	c6		
43	Object deletion notification for Virtual call-DTE managed object	c6		
44	Object creation notification for Virtual call IV managed object	c7		
45	Object deletion notification for Virtual call IV managed object	c7		
46	Activate action for X25PLE-DCE managed object	c5		
47	Deactivate action for X25PLE-DCE managed object	c5		
48	Object creation notification for X25PLE-DCE managed object	c5		
49	Object deletion notification for X25PLE-DCE managed object	c5		
50	State change notification for X25PLE-DCE managed object	c5		
51	Activate action for X25PLE-DTE managed object	c6		
52	Deactivate action for X25PLE-DTE managed object	c6		
53	Communications Alarm notification for X25PLE-DTE managed object	c6		
54	Object creation notification for X25PLE-DTE managed object	c6		
55	Object deletion notification for X25PLE-DTE managed object	c6		
56	State change notification for X25PLE-DTE managed object	c6		
57	Object creation notification for X25PLEIVMO-DCE managed object	c5		
58	Object deletion notification for X25PLEIVMO-DCE managed object	c5		
59	Object creation notification for X25PLEIVMO-DTE managed object	c6		
60	Object deletion notification for X25PLEIVMO-DTE managed object	c6		

c1: if D.1/1a then o.3 else -

c2: if D.1/1a and D.2/2a then o.3 else -

c3: if D.1/1a and D.2/1a then o.3 else -

c4: if D.1/1a and (D.2/1a or D.2/2a) then o.3 else -

c5: if D.1/1a and D.2/4a then o.3 else -

c6: if D.1/1a and D.2/3a then o.3 else -

c7: if D.1/1a and (D.2/3a or D.2/4a) then o.3 else -

The supplier of the implementation shall specify support for management information in the agent role, in Table D.4

Table D.4 – Agent role minimum conformance requirement

Index	Item	Status	Support	Additional information
1	Network subsystem managed object	m		
2	Network entity managed object	c8		
3	NSAP managed object	c8		
4	Connectionless-mode network service managed object	c9		
5	Linkage managed object	c8		
6	Connection-mode network service managed object	c10		
7	Network connection managed object	c10		
8	X.25 PLE DTE managed object	c11		
9	X.25 PLE DCE managed object	c12		
10	X.25 PLE DTE initial values managed object	o		
11	X.25 PLE DCE initial values managed object	o		
12	Permanent virtual circuit DTE managed object	c13		
13	Permanent virtual circuit DCE managed object	c14		
14	Virtual call initial values managed object	o		
15	Virtual call DTE managed object	c13		
16	Virtual call DCE managed object	c14		
17	Recommendation D series counts managed object	o		

c8: if D.1/2a and (D.2/1a or D.2/2a) then m else -

c9: if D.1/2a and D.2/1a then m else -

c10: if D.1/2a and D.2/2a then m else -

c11: if D.1/2a and D.2/3a then m else -

c12: if D.1/2a and D.2/4a then m else -

c13: if D.1/2a and D.2/3a then o.4 else -

c14: if D.1/2a and D.2/4a then o.5 else -

Table D.5 – Logging of event records

Index		Status	Support	Additional information
1	Does the implementation support logging of event records in agent role?	c15		

c15: if D.1/2a then o else -

NOTE – Conformance to this International Standard does not require conformance to CCITT Rec. X.735 | ISO/IEC 10164-6.

The supplier of the implementation shall provide information on claims of conformance to any of the International Standards summarized in the following tables. For each International Standard that the supplier of the implementation claims conformance to, the corresponding conformance statement(s) shall be completed, or referenced by, the MCS. The supplier of the implementation shall complete the Support, Table numbers and Additional information columns.

In tables D.6, D.7 and D.8, the Status column is used to indicate whether the supplier of the implementation is required to complete the referenced tables or referenced items. Conformance requirements are as specified in the referenced tables or referenced items and are not changed by the value of the MCS Status column. Similarly, the Support column is used by the supplier of the implementation to indicate completion of the referenced tables or referenced items.

Table D.6 – MOCS support summary

Index	Identification of the document that includes the MOCS proforma	Table numbers of MOCS proforma	Description	Constraints and values	Status	Support	Table numbers of MOCS	Additional information
1	"ISO/IEC 10733"	Table F.1 - F.8	cLNS	—	c16			
2	"ISO/IEC 10733"	Table F.9 - F.15	cONS	—	c17			
3	"ISO/IEC 10733"	Table F.16 - F.21	dSeriesCounts	—	c18			
4	"ISO/IEC 10733"	Table F.22 - F.29	linkage	—	c19			
5	"ISO/IEC 10733"	Table F.30 - F.34	nSAP	—	c20			
6	"ISO/IEC 10733"	Table F.35 - F.40	networkConnection	—	c21			

Table D.6 (concluded) – MOCS support summary

Index	Identification of the document that includes the MOCS proforma	Table numbers of MOCS proforma	Description	Constraints and values	Status	Support	Table numbers of MOCS	Additional information
7	"ISO/IEC 10733"	Table F.41 - F.45	networkEntity	—	c22			
8	"ISO/IEC 10733"	Table F.46 - F.49	networkSubsystem	—	m			
9	"ISO/IEC 10733"	Table F.50 - F.55	permanentVirtualCircuit-DCE	—	c23			
10	"ISO/IEC 10733"	Table F.56 - F.61	permanentVirtualCircuit-DTE	—	c24			
11	"ISO/IEC 10733"	Table F.62 - F.68	virtualCall-DCE	—	c25			
12	"ISO/IEC 10733"	Table F.69 - F.75	virtualCall-DTE	—	c26			
13	"ISO/IEC 10733"	Table F.76 - F.80	virtualCallIVMO	—	c27			
14	"ISO/IEC 10733"	Table F.81 - F.87	x25PLE-DCE	—	c28			
15	"ISO/IEC 10733"	Table F.88 - F.95	x25PLE-DTE	—	c29			
16	"ISO/IEC 10733"	Table F.96 - F.100	x25PLEIVMO-DCE	—	c30			
17	"ISO/IEC 10733"	Table F.101 - F.105	x25PLEIVMO-DTE	—	c31			
18	"ISO/IEC 10737"	Table F.44 - F.47	communicationInformationRecord	—	c32			
19	"ISO/IEC 10164-1"	Table C.1 - C.4	objectCreationRecord	—	c33			
20	"ISO/IEC 10164-1"	Table C.5 - C.8	objectDeletionRecord	—	c33			
21	"ISO/IEC 10164-2"	Table C.1 - C.4	stateChangeRecord	—	c34			
22	"ISO/IEC 10164-4"	Table C.1 - C.4	alarmRecord	—	c35			

c16: if D.4/4a then m else -

c17: if D.4/6a then m else -

c18: if D.4/17a then m else -

c19: if D.4/5a then m else -

c20: if D.4/3a then m else -

c21: if D.4/7a then m else -

c22: if D.4/2a then m else -

c23: if D.4/13a then m else -

c24: if D.4/12a then m else -

c25: if D.4/16a then m else -

c26: if D.4/15a then m else -

c27: if D.4/14a then m else -

c28: if D.4/9a then m else -

c29: if D.4/8a then m else -

c30: if D.4/11a then m else -

c31: if D.4/10a then m else -

c32: if D.5/1a and (D.4/4a or D.4/5a or D.4/7a or D.4/15a or D.4/16a) then m else -

c33: if D.5/1a then m else -

c34: if D.5/1a and (D.4/4a or D.4/5a or D.4/6a or D.4/8a or D.4/9a or D.4/13a) then m else -

c35: if D.5/1a and (D.4/4a or D.4/5a or D.4/8a) then m else -

Table D.7 – MRCS support summary

Index	Identification of the document that includes the MRCS proforma	Table numbers of MRCS proforma	Description	Constraints and values	Status	Support	Table numbers of MRCS	Additional information
1	"ISO/IEC 10733"	Table G. 1/1	cLNS-networkEntity-Automatic	—	c36			
2	"ISO/IEC 10733"	Table G. 1/2	cLNS-networkEntity-Management	—	c36			
3	"ISO/IEC 10733"	Table G. 1/3	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": clProtocolMachine-entity	—	c36			
4	"ISO/IEC 10733"	Table G. 1/4	cONS-networkEntity-Automatic	—	c37			
5	"ISO/IEC 10733"	Table G. 1/5	cONS-networkEntity-Management	—	c37			
6	"ISO/IEC 10733"	Table G. 1/6	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": coProtocolMachine-entity	—	c37			
7	"ISO/IEC 10733"	Table G. 1/7	dSeriesCounts-virtualCall-DCE-Automatic	—	c38			
8	"ISO/IEC 10733"	Table G. 1/8	dSeriesCounts-virtualCall-DCE-Management	—	c38			
9	"ISO/IEC 10733"	Table G. 1/9	linkage-cLNS-Automatic	—	c39			
10	"ISO/IEC 10733"	Table G. 1/10	linkage-cLNS-Management	—	c39			
11	"ISO/IEC 10733"	Table G. 1/11	linkage-cONS-Automatic	—	c40			
12	"ISO/IEC 10733"	Table G. 1/12	linkage-cONS-Management	—	c40			
13	"ISO/IEC 10733"	Table G. 1/13	nSAP-networkSubsystem-Automatic	—	c41			
14	"ISO/IEC 10733"	Table G. 1/14	nSAP-networkSubsystem-Management	—	c41			
15	"ISO/IEC 10733"	Table G. 1/15	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": sap2-subsystem	—	c41			
16	"ISO/IEC 10733"	Table G. 1/16	networkConnection-cONS	—	c42			
17	"ISO/IEC 10733"	Table G. 1/17	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": singlePeerConnection-coProtocolMachine	—	c42			
18	"ISO/IEC 10733"	Table G. 1/18	networkEntity-networkSubsystem-Automatic	—	c43			
19	"ISO/IEC 10733"	Table G. 1/19	networkEntity-networkSubsystem-Management	—	c43			
20	"ISO/IEC 10733"	Table G. 1/20	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": communicationsEntity-subsystem	—	c43			
21	"ISO/IEC 10733"	Table G. 1/21	networkSubsystem-system	—	o.14			
22	"ISO/IEC 10733"	Table G. 1/22	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": subsystem-system	—	o.14			
23	"ISO/IEC 10733"	Table G. 1/23	permanentVirtualCircuit-DCE-x25PLE-DCE	—	c44			
24	"ISO/IEC 10733"	Table G. 1/24	permanentVirtualCircuit-DTE-x25PLE-DTE	—	c45			
25	"ISO/IEC 10733"	Table G. 1/25	virtualCall-DCE-x25PLE-DCE-Automatic	—	c46			
26	"ISO/IEC 10733"	Table G. 1/26	virtualCall-DCE-x25PLE-DCE-Management	—	c46			
27	"ISO/IEC 10733"	Table G. 1/27	virtualCall-DTE-x25PLE-DTE	—	c47			
28	"ISO/IEC 10733"	Table G. 1/28	virtualCallIVMO-x25PLE	—	c47			

Table D.7 (concluded) – MRCS support summary

Index	Identification of the document that includes the MRCS proforma	Table numbers of MRCS proforma	Description	Constraints and values	Status	Support	Table numbers of MRCS	Additional information
29	"ISO/IEC 10733"	Table G.1/29	x25PLE-networkSubsystem-Automatic	—	c48			
30	"ISO/IEC 10733"	Table G.1/30	x25PLE-networkSubsystem-Management	—	c48			
31	"ISO/IEC 10733"	Table G.1/31	x25PLEIVMO-networkSubsystem	—	c49			
32	"ISO/IEC 10164-6"	Table D.1/1	logRecord-log	—	c50			

c36: if D.4/4a then o.6 else -

c37: if D.4/6a then o.7 else -

c38: if D.4/17a then o.8 else -

c39: if D.4/4a and D.4/5a then o.9 else -

c40: if D.4/5a and D.4/6a then o.10 else -

c41: if D.4/3a then o.11 else -

c42: if D.4/7a then o.12 else -

c43: if D.4/2a then o.13 else -

c44: if D.4/13a then o.15 else -

c45: if D.4/12a then o.16 else -

c46: if D.4/16a then o.17 else -

c47: if D.4/15a then o.18 else -

c48: if D.4/8a or D.4/9a then o.19 else -

c49: if D.4/10a or D.4/11a then m else -

c50: if D.5/1a then o else -

Table D.8 – MICS support summary

Index	Identification of the document that includes the MICS proforma	Table numbers of MICS proforma	Description	Constraints and values	Status	Support	Table numbers of MICS	Additional information
1	"ISO/IEC 10733"	Table E.1 to E.42	management operations	—	c51			
2	"ISO/IEC 10733"	Table E.43	notifications	—	c52			
3	"ISO/IEC 10733"	Table E.44	actions	—	c53			

c51: if D.3/1a then m else -

c52: if D.3/4a or D.3/5a or D.3/6a or D.3/7a or D.3/8a or D.3/12a or D.3/13a or D.3/14a or D.3/15a or D.3/16a or D.3/19a or D.3/20a or D.3/21a or D.3/22a or D.3/23a or D.3/24a or D.3/25a or D.3/27a or D.3/28a or D.3/29a or D.3/30a or D.3/31a or D.3/32a or D.3/33a or D.3/34a or D.3/35a or D.3/36a or D.3/37a or D.3/38a or D.3/39a or D.3/41a or D.3/42a or D.3/43a or D.3/44a or D.3/45a or D.3/48a or D.3/49a or D.3/50a or D.3/53a or D.3/54a or D.3/55a or D.3/56a or D.3/57a or D.3/58a or D.3/59a or D.3/60a then m else -

c53: if D.3/2a or D.3/3a or D.3/9a or D.3/10a or D.3/11a or D.3/17a or D.3/18a or D.3/26a or D.3/40a or D.3/46a or D.3/47a or D.3/51a or D.3/52a then m else -

Annex E (normative)

MICS proforma¹⁾

E.1 Introduction

The purpose of this MICS proforma is to provide a mechanism for a supplier of an implementation which claims conformance, in the manager role, to management information specified in this International Standard, to provide conformance information in a standard form.

E.2 Instructions for completing the MICS proforma to produce a MICS

The MICS proforma contained in this annex is comprised of information in tabular form, in accordance with ITU-T Rec. X.724 | ISO/IEC 10165-6. In addition to the general guidance given in ITU-T Rec. X.724 | ISO/IEC 10165-6, the Additional information column shall be used to identify the object classes for which the management operations are supported. The supplier of the implementation shall state which items are supported in tables below and if necessary, provide additional information.

E.3 Symbols, abbreviations and terms

The MICS proforma contained in this Annex is comprised of information in tabular form, in accordance with CCITT Rec. X.291 | ISO/IEC 9646-2.

The notations used in the Status and Support columns are specified in D.1.3.

E.4 Statement of conformance to the management information

E.4.1 Attributes

The specifier of a manager role implementation that claims to support management operations on the attributes specified in this International Standard shall import a copy of this table and complete it.

E.4.1.1 The CLNS managed object

Table E.1 – cLNS Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	"Rec. X.721 ISO/IEC 10165-2 : 1992": administrativeState	{2 9 3 2 7 31}	ENUMERATED	c1		o.1		o.1		-		-		-		
2	"Rec. X.721 ISO/IEC 10165-2 : 1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c1		o.1		-		-		-		-		
3	"ISO/IEC 10589 : 1993": areaAddresses	{2 13 0 1 7 18}	SET OF OCTET STRING	-		o.1		-		-		-		-		
4	"ISO/IEC 10589 : 1993": areaReceivePasswords	{2 13 0 1 7 112}	SET OF OCTET STRING	c1		o.1		o.1		o.1		o.1		o.1		
5	"ISO/IEC 10589 : 1993": areaTransmitPassword	{2 13 0 1 7 111}	OCTET STRING	c1		o.1		o.1		-		-		o.1		
6	assemblingSegmentsDiscarded	{2 13 0 2 7 8}	INTEGER	-		o.1		-		-		-		-		
7	"ISO/IEC 10589 : 1993": attemptsToExceedMaximumSequenceNumber	{2 13 0 1 7 22}	INTEGER	-		o.1		-		-		-		-		

¹⁾ Users of this International Standard 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.

Table E.1 (continued) – cLNS Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
8	"ISO/IEC 10589 : 1993": authenticationFailures	{2 13 0 1 7 117}	INTEGER	-		o.1		-		-		-		-		
9	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": clProtocolMachinelid	{2 9 3 5 7 2}	GraphicString	c1		o.1		-		-		-		-		
10	"ISO/IEC 10589 : 1993": completeSNPInterval	{2 13 0 1 7 8}	INTEGER	c1		o.1		o.1		-		-		-		
11	congestionDiscards	{2 13 0 2 7 11}	INTEGER	-		o.1		-		-		-		-		
12	"ISO/IEC 10589 : 1993": corruptedLSPsDetected	{2 13 0 1 7 19}	INTEGER	-		o.1		-		-		-		-		
13	"ISO/IEC 10589 : 1993": dRISISHelloTimer	{2 13 0 1 7 16}	INTEGER	c1		o.1		o.1		-		-		-		
14	"ISO/IEC 10589 : 1993": domainReceivePasswords	{2 13 0 1 7 114}	SET OF OCTET STRING	c1		o.1		o.1		o.1		o.1		o.1		
15	"ISO/IEC 10589 : 1993": domainTransmitPassword	{2 13 0 1 7 113}	OCTET STRING	c1		o.1		o.1		-		-		o.1		
16	enableChecksum	{2 13 0 2 7 4}	BOOLEAN	c1		o.1		o.1		-		-		o.1		
17	errorReportsReceived	{2 13 0 2 7 9}	INTEGER	-		o.1		-		-		-		-		
18	"ISO/IEC 10589 : 1993": iDFieldLengthMismatches	{2 13 0 1 7 25}	INTEGER	-		o.1		-		-		-		-		
19	"ISO/IEC 10589 : 1993": iSType	{2 13 0 1 7 2}	ENUMERATED	c1		o.1		-		-		-		-		
20	"ISO/IEC 10589 : 1993": i1State	{2 13 0 1 7 17}	ENUMERATED	-		o.1		-		-		-		-		
21	"ISO/IEC 10589 : 1993": i2State	{2 13 0 1 7 28}	ENUMERATED	-		o.1		-		-		-		-		
22	"ISO/IEC 10589 : 1993": iSPL1DatabaseOverloads	{2 13 0 1 7 20}	INTEGER	-		o.1		-		-		-		-		
23	"ISO/IEC 10589 : 1993": iSPL2DatabaseOverloads	{2 13 0 1 7 32}	INTEGER	-		o.1		-		-		-		-		
24	"ISO/IEC 10589 : 1993": manualAddressesDroppedFromArea	{2 13 0 1 7 21}	INTEGER	-		o.1		-		-		-		-		
25	"ISO/IEC 10589 : 1993": manualAreaAddresses	{2 13 0 1 7 10}	SET OF OCTET STRING	-		o.1		-		-		-		-		
26	"ISO/IEC 10589 : 1993": maximumAreaAddresses	{2 13 0 1 7 4}	INTEGER "ISO/IEC 10589 : 1993": constraintViolation	c1		o.1		o.1		-		-		-		
27	"ISO/IEC 10589 : 1993": maximumAreaAddressesMismatches	{2 13 0 1 7 118}	INTEGER	-		o.1		-		-		-		-		
28	"ISO/IEC 10589 : 1993": maximumLSPGenerationInterval	{2 13 0 1 7 6}	INTEGER	c1		o.1		o.1		-		-		-		
29	maximumLifetime	{2 13 0 2 7 102}	INTEGER	c1		o.1		o.1		-		-		-		
30	"ISO/IEC 10589 : 1993": maximumPathSplits	{2 13 0 1 7 3}	INTEGER "ISO/IEC 10589 : 1993": constraintViolation	c1		o.1		o.1		-		-		-		
31	"ISO/IEC 10589 : 1993": maximumVirtualAdjacencies	{2 13 0 1 7 27}	INTEGER "ISO/IEC 10589 : 1993": constraintViolation	c1		o.1		o.1		-		-		o.1		
32	"ISO/IEC 10589 : 1993": minimumBroadcastLSPTransmissionInterval	{2 13 0 1 7 7}	INTEGER	c1		o.1		o.1		-		-		-		
33	"ISO/IEC 10589 : 1993": minimumLSPGenerationInterval	{2 13 0 1 7 11}	INTEGER	c1		o.1		o.1		-		-		-		
34	"ISO/IEC 10589 : 1993": minimumLSPTransmissionInterval	{2 13 0 1 7 5}	INTEGER	c1		o.1		o.1		-		-		-		
35	"Rec. X.721 ISO/IEC 10165-2 : 1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c1		o.1		-		-		-		-		

Table E.1 (concluded) – cLNS Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
36	"Rec. X.721 ISO/IEC 10165-2 : 1992": objectClass	(2 9 3 2 7 65)	ObjectClass	c1		o.1		-		-		-		-		
37	"Rec. X.721 ISO/IEC 10165-2 : 1992": octetsReceivedCounter	(2 9 3 2 7 78)	INTEGER	-		o.1		-		-		-		-		
38	"Rec. X.721 ISO/IEC 10165-2 : 1992": octetsSentCounter	(2 9 3 2 7 80)	INTEGER	-		o.1		-		-		-		-		
39	"Rec. X.721 ISO/IEC 10165-2 : 1992": operationalState	(2 9 3 2 7 35)	ENUMERATED	-		o.1		-		-		-		-		
40	operationalSystemType	(2 13 0 2 7 109)	ENUMERATED	c1		o.1		-		-		-		-		
41	"ISO/IEC 10589 : 1993": originatingL1LSPBufferSize	(2 13 0 1 7 9)	INTEGER "ISO/IEC 10589 : 1993": constraintViolation	c1		o.1		o.1		-		-		-		
42	"ISO/IEC 10589 : 1993": originatingL2LSPBufferSize	(2 13 0 1 7 26)	INTEGER "ISO/IEC 10589 : 1993": constraintViolation	c1		o.1		o.1		-		-		o.1		
43	"ISO/IEC 10589 : 1993": ownLSPPurges	(2 13 0 1 7 24)	INTEGER	-		o.1		-		-		-		-		
44	pDUDiscards	(2 13 0 2 7 10)	INTEGER	-		o.1		-		-		-		-		
45	"Rec. X.721 ISO/IEC 10165-2 : 1992": packages	(2 9 3 2 7 66)	SET OF OBJECT IDENTIFIER	c1		o.1		-		-		-		-		
46	"ISO/IEC 10589 : 1993": partialSNPIInterval	(2 13 0 1 7 14)	INTEGER	c1		o.1		o.1		-		-		-		
47	"ISO/IEC 10589 : 1993": partitionAreaAddresses	(2 13 0 1 7 29)	SET OF OCTET STRING	-		o.1		-		-		-		-		
48	"ISO/IEC 10589 : 1993": partitionDesignatedL2IntermediateSystem	(2 13 0 1 7 30)	OCTET STRING	-		o.1		-		-		-		-		
49	"ISO/IEC 10589 : 1993": partitionVirtualLinkChanges	(2 13 0 1 7 31)	INTEGER	-		o.1		-		-		-		-		
50	"ISO/IEC 10589 : 1993": pollESHelloRate	(2 13 0 1 7 13)	INTEGER	c1		o.1		o.1		-		-		-		
51	segmentsDiscarded	(2 13 0 2 7 7)	INTEGER	-		o.1		-		-		-		-		
52	segmentsReceived	(2 13 0 2 7 6)	INTEGER	-		o.1		-		-		-		-		
53	segmentsSent	(2 13 0 2 7 118)	INTEGER	-		o.1		-		-		-		-		
54	"ISO/IEC 10589 : 1993": sequenceNumberSkips	(2 13 0 1 7 23)	INTEGER	-		o.1		-		-		-		-		
55	supportedProtocols	(2 13 0 2 7 110)	SET OF SEQUENCE	-		o.1		-		-		-		-		
56	"ISO/IEC 10589 : 1993": systemId	(2 13 0 1 7 119)	OCTET STRING	-		o.1		-		-		-		-		
57	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": totalRemoteSAPs	(2 9 3 5 7 13)	INTEGER	-		o.1		-		-		-		-		
58	"ISO/IEC 10589 : 1993": version	(2 13 0 1 7 1)	GraphicString	-		o.1		-		-		-		-		
59	"ISO/IEC 10589 : 1993": waitingTime	(2 13 0 1 7 15)	INTEGER	c1		o.1		o.1		-		-		-		

c1: IF E.28/1a THEN o.1 ELSE -

E.4.1.2 The CONS managed object

Table E.2 – cONS Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	"Rec. X.721 ISO/IEC 10165-2 : 1992": administrativeState	{2 9 3 2 7 31}	ENUMERATED	c2		o.1		o.1		-		-		-		
2	"Rec. X.721 ISO/IEC 10165-2 : 1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c2		o.1		-		-		-		-		
3	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": clProtocolMachinelid	{2 9 3 5 7 2}	GraphicString	c2		o.1		-		-		-		-		
4	"Rec. X.721 ISO/IEC 10165-2 : 1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c2		o.1		-		-		-		-		
5	"Rec. X.721 ISO/IEC 10165-2 : 1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c2		o.1		-		-		-		-		
6	"Rec. X.721 ISO/IEC 10165-2 : 1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	-		o.1		-		-		-		-		
7	operationalSystemType	{2 13 0 2 7 109}	ENUMERATED	c2		o.1		-		-		-		-		
8	"Rec. X.721 ISO/IEC 10165-2 : 1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c2		o.1		-		-		-		-		

c2: IF E.29/1a THEN o.1 ELSE -

E.4.1.3 The recommendation D series counts managed object

Table E.3 – dSeriesCounts Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	"Rec. X.721 ISO/IEC 10165-2 : 1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c3		o.1		-		-		-		-		
2	dSeriesId	{2 13 0 2 7 140}	GraphicString	c3		o.1		-		-		-		-		
3	dSeriesResetRequestIndicationPackets	{2 13 0 2 7 141}	INTEGER	-		o.1		-		-		-		-		
4	dSeriesSegmentsReceived	{2 13 0 2 7 143}	INTEGER	-		o.1		-		-		-		-		
5	dSeriesSegmentsSent	{2 13 0 2 7 142}	INTEGER	-		o.1		-		-		-		-		
6	"Rec. X.721 ISO/IEC 10165-2 : 1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c3		o.1		-		-		-		-		
7	"Rec. X.721 ISO/IEC 10165-2 : 1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c3		o.1		-		-		-		-		
8	"Rec. X.721 ISO/IEC 10165-2 : 1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c3		o.1		-		-		-		-		

c3: IF E.30/1a THEN o.1 ELSE -

E.4.1.4 The linkage managed object

Table E.4 – linkage Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	activeESConfigTimer	{2 13 0 2 7 22}	SEQUENCE	-		o.1		-		-		-		-		
2	"Rec. X.721 ISO/IEC 10165-2 : 1992": administrativeState	{2 9 3 2 7 31}	ENUMERATED	c4		o.1		o.1		-		-		-		
3	"Rec. X.721 ISO/IEC 10165-2 : 1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c4		o.1		-		-		-		-		
4	"ISO/IEC 10589 : 1993": authenticationFailures	{2 13 0 1 7 117}	INTEGER	-		o.1		-		-		-		-		
5	"ISO/IEC 10589 : 1993": callEstablishmentDefaultMetricIncrement	{2 13 0 1 7 52}	INTEGER	c4		o.1		o.1		-		-		o.1		
6	"ISO/IEC 10589 : 1993": callEstablishmentDelayMetricIncrement	{2 13 0 1 7 53}	INTEGER	c4		o.1		o.1		-		-		o.1		
7	"ISO/IEC 10589 : 1993": callEstablishmentErrorMetricIncrement	{2 13 0 1 7 55}	INTEGER	c4		o.1		o.1		-		-		o.1		
8	"ISO/IEC 10589 : 1993": callEstablishmentExpenseMetricIncrement	{2 13 0 1 7 54}	INTEGER	c4		o.1		o.1		-		-		o.1		
9	callsFailed	{2 13 0 2 7 30}	INTEGER	-		o.1		-		-		-		-		
10	callsPlaced	{2 13 0 2 7 29}	INTEGER	-		o.1		-		-		-		-		
11	"ISO/IEC 10589 : 1993": changesInAdjacencyState	{2 13 0 1 7 40}	INTEGER	-		o.1		-		-		-		-		
12	"ISO/IEC 10589 : 1993": circuitReceivePasswords	{2 13 0 1 7 116}	SET OF OCTET STRING	c4		o.1		o.1		o.1		o.1		o.1		
13	"ISO/IEC 10589 : 1993": circuitTransmitPassword	{2 13 0 1 7 115}	OCTET STRING	c4		o.1		o.1		-		-		o.1		
14	defaultESConfigTimer	{2 13 0 2 7 21}	SEQUENCE	c4		o.1		o.1		-		-		o.1		
15	eSReachabilityChanges	{2 13 0 2 7 27}	INTEGER	-		o.1		-		-		-		-		
16	enableChecksum	{2 13 0 2 7 4}	BOOLEAN	c4		o.1		o.1		-		-		o.1		
17	"ISO/IEC 10589 : 1993": externalDomain	{2 13 0 1 7 46}	BOOLEAN	c4		o.1		o.1		-		-		o.1		
18	holdingTimerMultiplier	{2 13 0 2 7 20}	INTEGER	c4		o.1		o.1		-		-		o.1		
19	"ISO/IEC 10589 : 1993": iDFieldLengthMismatches	{2 13 0 1 7 25}	INTEGER	-		o.1		-		-		-		-		
20	iSConfigurationTimer	{2 13 0 2 7 24}	SEQUENCE	c4		o.1		o.1		-		-		o.1		
21	"ISO/IEC 10589 : 1993": iSISControlPDUsReceived	{2 13 0 1 7 44}	INTEGER	-		o.1		-		-		-		-		
22	"ISO/IEC 10589 : 1993": iSISControlPDUsSent	{2 13 0 1 7 43}	INTEGER	-		o.1		-		-		-		-		
23	"ISO/IEC 10589 : 1993": iSISHelloTimer	{2 13 0 1 7 45}	INTEGER	c4		o.1		o.1		-		-		o.1		
24	iS09542OperationalSubsets	{2 13 0 2 7 115}	BIT STRING	c4		o.1		o.1		-		-		-		
25	iSReachabilityChanges	{2 13 0 2 7 23}	INTEGER	-		o.1		-		-		-		-		
26	idleTimer	{2 13 0 2 7 31}	SEQUENCE	c4		o.1		o.1		-		-		o.1		
27	initialMinimumTimer	{2 13 0 2 7 33}	SEQUENCE	c4		o.1		o.1		-		-		o.1		
28	"ISO/IEC 10589 : 1993": initializationFailures	{2 13 0 1 7 41}	INTEGER	-		o.1		-		-		-		-		
29	invalid9542PDUs	{2 13 0 2 7 101}	INTEGER	-		o.1		-		-		-		-		
30	"ISO/IEC 10589 : 1993": l1CircuitID	{2 13 0 1 7 48}	OCTET STRING	-		o.1		-		-		-		-		
31	"ISO/IEC 10589 : 1993": l1DefaultMetric	{2 13 0 1 7 35}	INTEGER	c4		o.1		o.1		-		-		o.1		
32	"ISO/IEC 10589 : 1993": l1DelayMetric	{2 13 0 1 7 36}	INTEGER	c4		o.1		o.1		-		-		o.1		
33	"ISO/IEC 10589 : 1993": l1DesignatedIntermediateSystem	{2 13 0 1 7 49}	OCTET STRING	-		o.1		-		-		-		-		
34	"ISO/IEC 10589 : 1993": l1ErrorMetric	{2 13 0 1 7 38}	INTEGER	c4		o.1		o.1		-		-		o.1		
35	"ISO/IEC 10589 : 1993": l1ExpenseMetric	{2 13 0 1 7 37}	INTEGER	c4		o.1		o.1		-		-		o.1		

Table E.4 (concluded) – linkage Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
36	"ISO/IEC 10589 : 1993"; l1IntermediateSystemPriority	{2 13 0 1 7 47}	INTEGER	c4		o.1		o.1		-		-		o.1		
37	"ISO/IEC 10589 : 1993"; l2CircuitID	{2 13 0 1 7 74}	OCTET STRING	-		o.1		-		-		-		-		
38	"ISO/IEC 10589 : 1993"; l2DefaultMetric	{2 13 0 1 7 68}	INTEGER	c4		o.1		o.1		-		-		o.1		
39	"ISO/IEC 10589 : 1993"; l2DelayMetric	{2 13 0 1 7 69}	INTEGER	c4		o.1		o.1		-		-		o.1		
40	"ISO/IEC 10589 : 1993"; l2DesignatedIntermediateSystem	{2 13 0 1 7 75}	OCTET STRING	-		o.1		-		-		-		-		
41	"ISO/IEC 10589 : 1993"; l2ErrorMetric	{2 13 0 1 7 71}	INTEGER	c4		o.1		o.1		-		-		o.1		
42	"ISO/IEC 10589 : 1993"; l2ExpenseMetric	{2 13 0 1 7 70}	INTEGER	c4		o.1		o.1		-		-		o.1		
43	"ISO/IEC 10589 : 1993"; l2IntermediateSystemPriority	{2 13 0 1 7 73}	INTEGER	c4		o.1		o.1		-		-		o.1		
44	"ISO/IEC 10589 : 1993"; lanL1DesignatedIntermediateSystemChanges	{2 13 0 1 7 50}	INTEGER	-		o.1		-		-		-		-		
45	"ISO/IEC 10589 : 1993"; lanL2DesignatedIntermediateSystemChanges	{2 13 0 1 7 76}	INTEGER	-		o.1		-		-		-		-		
46	linkageId	{2 13 0 2 7 17}	GraphicString	c4		o.1		-		-		-		-		
47	manualISSNPAAddress	{2 13 0 2 7 28}	SET OF SEQUENCE	c4		o.1		o.1		o.1		o.1		o.1		
48	"ISO/IEC 10589 : 1993"; manualL2OnlyMode	{2 13 0 1 7 72}	BOOLEAN "ISO/IEC 10589 : 1993"; constraintViolation	c4		o.1		o.1		-		-		o.1		
49	"ISO/IEC 10589 : 1993"; maximumAreaAddressesMismatches	{2 13 0 1 7 118}	INTEGER	-		o.1		-		-		-		-		
50	"Rec. X.721 ISO/IEC 10165-2 : 1992"; nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c4		o.1		-		-		-		-		
51	"Rec. X.721 ISO/IEC 10165-2 : 1992"; objectClass	{2 9 3 2 7 65}	ObjectClass	c4		o.1		-		-		-		-		
52	operationalProtocols	{2 13 0 2 7 111}	SET OF SEQUENCE	c4		o.1		-		-		-		-		
53	"Rec. X.721 ISO/IEC 10165-2 : 1992"; operationalState	{2 9 3 2 7 35}	ENUMERATED	-		o.1		-		-		-		-		
54	"ISO/IEC 10589 : 1993"; outgoingCallVMO	{2 13 0 1 7 120}	OCTET STRING	c4		o.1		o.1		-		-		o.1		
55	"Rec. X.721 ISO/IEC 10165-2 : 1992"; packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c4		o.1		-		-		-		-		
56	"ISO/IEC 10589 : 1993"; ptPtCircuitID	{2 13 0 1 7 51}	OCTET STRING	-		o.1		-		-		-		-		
57	redirectHoldingTime	{2 13 0 2 7 26}	INTEGER	c4		o.1		o.1		-		-		o.1		
58	"ISO/IEC 10589 : 1993"; rejectedAdjacencies	{2 13 0 1 7 42}	INTEGER	-		o.1		-		-		-		-		
59	reserveTimer	{2 13 0 2 7 32}	SEQUENCE	c4		o.1		o.1		-		-		o.1		
60	sN-SAP	{2 13 0 2 7 18}	ObjectInstance	-		o.1		-		-		-		-		
61	sN-ServiceProvider	{2 13 0 2 7 19}	ObjectInstance	c4		o.1		-		-		-		-		
62	suggestedESConfigurationTimer	{2 13 0 2 7 25}	SEQUENCE	c4		o.1		o.1		-		-		o.1		
63	"ISO/IEC 10589 : 1993"; type	{2 13 0 1 7 33}	ENUMERATED	c4		o.1		-		-		-		-		
64	neighbourSNPAAddress	{2 13 0 1 7 79}	SEQUENCE	c4		o.1		o.1		-		-		o.1		

c4: IF E.31/1a THEN o.1 ELSE -

E.4.1.5 The NSAP managed object

Table E.5 – nSAP Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	"Rec. X.721 ISO/IEC 10165-2 : 1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c5		o.1		-		-		-		-		
2	"Rec. X.721 ISO/IEC 10165-2 : 1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c5		o.1		-		-		-		-		
3	"Rec. X.721 ISO/IEC 10165-2 : 1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c5		o.1		-		-		-		-		
4	"Rec. X.721 ISO/IEC 10165-2 : 1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c5		o.1		-		-		-		-		
5	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": providerEntityNames	{2 9 3 5 7 7}	SET OF ObjectInstance	-		o.1		-		-		-		-		
6	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": sap2Address	{2 9 3 5 7 9}	SET OF OCTET STRING	c5		o.1		-		-		-		-		
7	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": sapId	{2 9 3 5 7 10}	GraphicString	c5		o.1		-		-		-		-		
8	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": userEntityNames	{2 9 3 5 7 15}	SET OF ObjectInstance	-		o.1		-		-		-		-		

c5: IF E.32/1a THEN o.1 ELSE -

E.4.1.6 The network connection managed object

Table E.6 – networkConnection Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	"Rec. X.721 ISO/IEC 10165-2 : 1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	-		o.1		-		-		-		-		
2	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": connectionId	{2 9 3 5 7 1}	GraphicString	-		o.1		-		-		-		-		
3	localNSAPMO	{2 13 0 2 7 106}	ObjectInstance	-		o.1		-		-		-		-		
4	"Rec. X.721 ISO/IEC 10165-2 : 1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	-		o.1		-		-		-		-		
5	"Rec. X.721 ISO/IEC 10165-2 : 1992": objectClass	{2 9 3 2 7 65}	ObjectClass	-		o.1		-		-		-		-		
6	"Rec. X.721 ISO/IEC 10165-2 : 1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	-		o.1		-		-		-		-		
7	remoteNSAPAddress	{2 13 0 2 7 107}	OCTET STRING	-		o.1		-		-		-		-		
8	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": supportedConnectionNames	{2 9 3 5 7 12}	SET OF ObjectInstance	-		o.1		-		-		-		-		

Table E.6 (concluded) – networkConnection Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
9	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": underlyingConnectionNames	{2 9 3 5 7 14}	SET OF ObjectInstance	-		o.1		-		-		-		-		

E.4.1.7 The network entity managed object

Table E.7 – networkEntity Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	"Rec. X.721 ISO/IEC 10165-2 : 1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c6		o.1		-		-		-		-		
2	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": communicationsEntityId	{2 9 3 5 7 0}	GraphicString	c6		o.1		-		-		-		-		
3	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": localSapNames	{2 9 3 5 7 6}	SET OF ObjectInstance	-		o.1		-		-		-		-		
4	"Rec. X.721 ISO/IEC 10165-2 : 1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c6		o.1		-		-		-		-		
5	networkEntityTitles	{2 13 0 2 7 3}	SET OF OCTET STRING	c6		o.1		o.1		o.1		o.1		-		
6	"Rec. X.721 ISO/IEC 10165-2 : 1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c6		o.1		-		-		-		-		
7	"Rec. X.721 ISO/IEC 10165-2 : 1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	-		o.1		-		-		-		-		
8	"Rec. X.721 ISO/IEC 10165-2 : 1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c6		o.1		-		-		-		-		
9	systemTypes	{2 13 0 2 7 108}	SET OF ENUMERATED	-		o.1		-		-		-		-		

c6: IF E.34/1a THEN o.1 ELSE -

E.4.1.8 The network subsystem managed object

Table E.8 – networkSubsystem Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	"Rec. X.721 ISO/IEC 10165-2 : 1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	-		o.1		-		-		-		-		
2	"Rec. X.721 ISO/IEC 10165-2 : 1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	-		o.1		-		-		-		-		
3	"Rec. X.721 ISO/IEC 10165-2 : 1992": objectClass	{2 9 3 2 7 65}	ObjectClass	-		o.1		-		-		-		-		

Table E.8 (concluded) – networkSubsystem Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
4	"Rec. X.721 ISO/IEC 10165-2 : 1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	-		o.1		-		-		-		-		
5	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": subsystemId	{2 9 3 5 7 11}	GraphicString	-		o.1		-		-		-		-		

E.4.1.9 The permanent virtual circuit DCE managed object

Table E.9 – permanentVirtualCircuit-DCE Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	"Rec. X.721 ISO/IEC 10165-2 : 1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	o.1		o.1		-		-		-		-		
2	chargingDirection	{2 13 0 2 7 131}	BOOLEAN	-		o.1		-		-		-		-		
3	dataPacketsReceived	{2 13 0 2 7 51}	INTEGER	-		o.1		-		-		-		-		
4	dataPacketsSent	{2 13 0 2 7 50}	INTEGER	-		o.1		-		-		-		-		
5	interruptPacketsReceived	{2 13 0 2 7 68}	INTEGER	-		o.1		-		-		-		-		
6	interruptPacketsSent	{2 13 0 2 7 67}	INTEGER	-		o.1		-		-		-		-		
7	interruptTimerExpires	{2 13 0 2 7 69}	INTEGER	-		o.1		-		-		-		-		
8	logicalChannel	{2 13 0 2 7 89}	INTEGER	o.1		o.1		-		-		-		-		
9	"Rec. X.721 ISO/IEC 10165-2 : 1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	o.1		o.1		-		-		-		-		
10	"Rec. X.721 ISO/IEC 10165-2 : 1992": objectClass	{2 9 3 2 7 65}	ObjectClass	o.1		o.1		-		-		-		-		
11	"Rec. X.721 ISO/IEC 10165-2 : 1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	-		o.1		-		-		-		-		
12	"Rec. X.721 ISO/IEC 10165-2 : 1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	-		o.1		-		-		-		-		
13	"Rec. X.721 ISO/IEC 10165-2 : 1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	-		o.1		-		-		-		-		
14	"Rec. X.721 ISO/IEC 10165-2 : 1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	o.1		o.1		-		-		-		-		
15	packetSizes	{2 13 0 2 7 121}	SEQUENCE	o.1		o.1		-		-		-		-		
16	providerInitiatedDisconnects	{2 13 0 2 7 54}	INTEGER	-		o.1		-		-		-		-		
17	providerInitiatedResets	{2 13 0 2 7 59}	INTEGER	-		o.1		-		-		-		-		
18	remoteDTEAddress	{2 13 0 2 7 93}	SEQUENCE	-		o.1		-		-		-		-		
19	remoteLogicalChannel	{2 13 0 2 7 162}	INTEGER	-		o.1		-		-		-		-		
20	remotelyInitiatedResets	{2 13 0 2 7 57}	INTEGER	-		o.1		-		-		-		-		
21	remotelyInitiatedRestarts	{2 13 0 2 7 61}	INTEGER	-		o.1		-		-		-		-		
22	resetTimeouts	{2 13 0 2 7 60}	INTEGER	-		o.1		-		-		-		-		
23	throughputClasses	{2 13 0 2 7 96}	SEQUENCE	o.1		o.1		-		-		-		-		
24	virtualCircuitId	{2 13 0 2 7 116}	GraphicString	o.1		o.1		-		-		-		-		
25	windowSizes	{2 13 0 2 7 124}	SEQUENCE	o.1		o.1		-		-		-		-		
26	x25SegmentsReceived	{2 13 0 2 7 171}	INTEGER	-		o.1		-		-		-		-		
27	x25SegmentsSent	{2 13 0 2 7 170}	INTEGER	-		o.1		-		-		-		-		

E.4.1.10 The permanent virtual circuit DTE managed object

Table E.10 – permanentVirtualCircuit-DTE Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	"Rec. X.721 ISO/IEC 10165-2 : 1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	o.1		o.1		-		-		-		-		
2	dataPacketsReceived	{2 13 0 2 7 51}	INTEGER	-		o.1		-		-		-		-		
3	dataPacketsSent	{2 13 0 2 7 50}	INTEGER	-		o.1		-		-		-		-		
4	dataRetransmissionTimerExpiries	{2 13 0 2 7 58}	INTEGER	-		o.1		-		-		-		-		
5	interruptPacketsReceived	{2 13 0 2 7 68}	INTEGER	-		o.1		-		-		-		-		
6	interruptPacketsSent	{2 13 0 2 7 67}	INTEGER	-		o.1		-		-		-		-		
7	interruptTimerExpiries	{2 13 0 2 7 69}	INTEGER	-		o.1		-		-		-		-		
8	logicalChannel	{2 13 0 2 7 89}	INTEGER	o.1		o.1		-		-		-		-		
9	"Rec. X.721 ISO/IEC 10165-2 : 1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	o.1		o.1		-		-		-		-		
10	"Rec. X.721 ISO/IEC 10165-2 : 1992": objectClass	{2 9 3 2 7 65}	ObjectClass	o.1		o.1		-		-		-		-		
11	"Rec. X.721 ISO/IEC 10165-2 : 1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	-		o.1		-		-		-		-		
12	"Rec. X.721 ISO/IEC 10165-2 : 1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	-		o.1		-		-		-		-		
13	"Rec. X.721 ISO/IEC 10165-2 : 1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	o.1		o.1		-		-		-		-		
14	packetSizes	{2 13 0 2 7 121}	SEQUENCE	o.1		o.1		-		-		-		-		
15	providerInitiatedResets	{2 13 0 2 7 59}	INTEGER	-		o.1		-		-		-		-		
16	remotelyInitiatedResets	{2 13 0 2 7 57}	INTEGER	-		o.1		-		-		-		-		
17	resetTimeouts	{2 13 0 2 7 60}	INTEGER	-		o.1		-		-		-		-		
18	throughputClasses	{2 13 0 2 7 96}	SEQUENCE	o.1		o.1		-		-		-		-		
19	virtualCircuitId	{2 13 0 2 7 116}	GraphicString	o.1		o.1		-		-		-		-		
20	windowSizes	{2 13 0 2 7 124}	SEQUENCE	o.1		o.1		-		-		-		-		

E.4.1.11 The virtual call DCE managed object

Table E.11 – virtualCall-DCE Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	"Rec. X.721 ISO/IEC 10165-2 : 1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c7		o.1		-		-		-		-		
2	bilateralCUGSelection	{2 13 0 2 7 126}	BOOLEAN	-		o.1		-		-		-		-		
3	cUGSelection	{2 13 0 2 7 135}	BOOLEAN	-		o.1		-		-		-		-		
4	cUGWithOutgoingAccessSelection	{2 13 0 2 7 138}	BOOLEAN	-		o.1		-		-		-		-		
5	callRedirectionDeflectionNotification	{2 13 0 2 7 130}	BOOLEAN	-		o.1		-		-		-		-		
6	calledLineAddressModifiedNotification	{2 13 0 2 7 128}	BOOLEAN	-		o.1		-		-		-		-		
7	chargingDirection	{2 13 0 2 7 131}	BOOLEAN	-		o.1		-		-		-		-		
8	dataPacketsReceived	{2 13 0 2 7 51}	INTEGER	-		o.1		-		-		-		-		
9	dataPacketsSent	{2 13 0 2 7 50}	INTEGER	-		o.1		-		-		-		-		
10	direction	{2 13 0 2 7 92}	ENUMERATED	-		o.1		-		-		-		-		
11	fastSelect	{2 13 0 2 7 76}	ENUMERATED	-		o.1		-		-		-		-		
12	interruptPacketsReceived	{2 13 0 2 7 68}	INTEGER	-		o.1		-		-		-		-		
13	interruptPacketsSent	{2 13 0 2 7 67}	INTEGER	-		o.1		-		-		-		-		

Table E.11 (concluded) – virtualCall-DCE Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
14	interruptTimerExpiries	{2 13 0 2 7 69}	INTEGER	-		o.1		-		-		-		-		
15	logicalChannel	{2 13 0 2 7 89}	INTEGER	-		o.1		-		-		-		-		
16	nUISelection	{2 13 0 2 7 155}	BOOLEAN	-		o.1		-		-		-		-		
17	"Rec. X.721 ISO/IEC 10165-2 : 1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c7		o.1		-		-		-		-		
18	"Rec. X.721 ISO/IEC 10165-2 : 1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c7		o.1		-		-		-		-		
19	"Rec. X.721 ISO/IEC 10165-2 : 1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	-		o.1		-		-		-		-		
20	"Rec. X.721 ISO/IEC 10165-2 : 1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	-		o.1		-		-		-		-		
21	"Rec. X.721 ISO/IEC 10165-2 : 1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c7		o.1		-		-		-		-		
22	packetSizes	{2 13 0 2 7 121}	SEQUENCE	-		o.1		-		-		-		-		
23	providerInitiatedDisconnects	{2 13 0 2 7 54}	INTEGER	-		o.1		-		-		-		-		
24	providerInitiatedResets	{2 13 0 2 7 59}	INTEGER	-		o.1		-		-		-		-		
25	rPOASelection	{2 13 0 2 7 166}	BOOLEAN	-		o.1		-		-		-		-		
26	remoteDTEAddress	{2 13 0 2 7 93}	SEQUENCE	-		o.1		-		-		-		-		
27	remotelyInitiatedResets	{2 13 0 2 7 57}	INTEGER	-		o.1		-		-		-		-		
28	remotelyInitiatedRestarts	{2 13 0 2 7 61}	INTEGER	-		o.1		-		-		-		-		
29	resetTimeouts	{2 13 0 2 7 60}	INTEGER	-		o.1		-		-		-		-		
30	reverseCharging	{2 13 0 2 7 75}	BOOLEAN	-		o.1		-		-		-		-		
31	throughputClasses	{2 13 0 2 7 96}	SEQUENCE	-		o.1		-		-		-		-		
32	transitDelaySelectionAndIndication	{2 13 0 2 7 169}	BOOLEAN	-		o.1		-		-		-		-		
33	virtualCircuitId	{2 13 0 2 7 116}	GraphicString	c7		o.1		-		-		-		-		
34	windowSizes	{2 13 0 2 7 124}	SEQUENCE	-		o.1		-		-		-		-		
35	x25SegmentsReceived	{2 13 0 2 7 171}	INTEGER	-		o.1		-		-		-		-		
36	x25SegmentsSent	{2 13 0 2 7 170}	INTEGER	-		o.1		-		-		-		-		

c7: IF E.37/1a THEN o.1 ELSE -

E.4.1.12 The virtual call DTE managed object

Table E.12 – virtualCall-DTE Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	"Rec. X.721 ISO/IEC 10165-2 : 1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	-		o.1		-		-		-		-		
2	calledAddressExtension	{2 13 0 2 7 100}	OCTET STRING	-		o.1		-		-		-		-		
3	callingAddressExtension	{2 13 0 2 7 99}	OCTET STRING	-		o.1		-		-		-		-		
4	dataPacketsReceived	{2 13 0 2 7 51}	INTEGER	-		o.1		-		-		-		-		
5	dataPacketsSent	{2 13 0 2 7 50}	INTEGER	-		o.1		-		-		-		-		
6	dataRetransmissionTimerExpiries	{2 13 0 2 7 58}	INTEGER	-		o.1		-		-		-		-		
7	direction	{2 13 0 2 7 92}	ENUMERATED	-		o.1		-		-		-		-		
8	fastSelect	{2 13 0 2 7 76}	ENUMERATED	-		o.1		-		-		-		-		
9	interruptPacketsReceived	{2 13 0 2 7 68}	INTEGER	-		o.1		-		-		-		-		
10	interruptPacketsSent	{2 13 0 2 7 67}	INTEGER	-		o.1		-		-		-		-		
11	interruptTimerExpiries	{2 13 0 2 7 69}	INTEGER	-		o.1		-		-		-		-		
12	logicalChannel	{2 13 0 2 7 89}	INTEGER	-		o.1		-		-		-		-		

Table E.12 (concluded) – virtualCall-DTE Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
13	"Rec. X.721 ISO/IEC 10165-2 : 1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	-		o.1		-		-		-		-		
14	"Rec. X.721 ISO/IEC 10165-2 : 1992": objectClass	{2 9 3 2 7 65}	ObjectClass	-		o.1		-		-		-		-		
15	"Rec. X.721 ISO/IEC 10165-2 : 1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	-		o.1		-		-		-		-		
16	"Rec. X.721 ISO/IEC 10165-2 : 1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	-		o.1		-		-		-		-		
17	originallyCalledAddress	{2 13 0 2 7 98}	SEQUENCE	-		o.1		-		-		-		-		
18	"Rec. X.721 ISO/IEC 10165-2 : 1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	-		o.1		-		-		-		-		
19	packetSizes	{2 13 0 2 7 121}	SEQUENCE	-		o.1		-		-		-		-		
20	providerInitiatedResets	{2 13 0 2 7 59}	INTEGER	-		o.1		-		-		-		-		
21	redirectReason	{2 13 0 2 7 97}	INTEGER	-		o.1		-		-		-		-		
22	remoteDTEAddress	{2 13 0 2 7 93}	SEQUENCE	-		o.1		-		-		-		-		
23	remotelyInitiatedResets	{2 13 0 2 7 57}	INTEGER	-		o.1		-		-		-		-		
24	resetTimeouts	{2 13 0 2 7 60}	INTEGER	-		o.1		-		-		-		-		
25	reverseCharging	{2 13 0 2 7 75}	BOOLEAN	-		o.1		-		-		-		-		
26	throughputClasses	{2 13 0 2 7 96}	SEQUENCE	-		o.1		-		-		-		-		
27	virtualCircuitId	{2 13 0 2 7 116}	GraphicString	-		o.1		-		-		-		-		
28	windowSizes	{2 13 0 2 7 124}	SEQUENCE	-		o.1		-		-		-		-		

E.4.1.13 The virtual call initial values managed object

Table E.13 – virtualCallIVMO Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	"Rec. X.721 ISO/IEC 10165-2 : 1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	o.1		o.1		-		-		-		-		
2	fastSelect	{2 13 0 2 7 76}	ENUMERATED	o.1		o.1		o.1		-		-		-		
3	"Rec. X.721 ISO/IEC 10165-2 : 1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	o.1		o.1		-		-		-		-		
4	"Rec. X.721 ISO/IEC 10165-2 : 1992": objectClass	{2 9 3 2 7 65}	ObjectClass	o.1		o.1		-		-		-		-		
5	"Rec. X.721 ISO/IEC 10165-2 : 1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	o.1		o.1		-		-		-		-		
6	packetSizes	{2 13 0 2 7 121}	SEQUENCE	o.1		o.1		o.1		-		-		-		
7	reverseCharging	{2 13 0 2 7 75}	BOOLEAN	o.1		o.1		o.1		-		-		-		
8	throughputClasses	{2 13 0 2 7 96}	SEQUENCE	o.1		o.1		o.1		-		-		-		
9	virtualCallIVMOld	{2 13 0 2 7 117}	GraphicString	o.1		o.1		-		-		-		-		
10	windowSizes	{2 13 0 2 7 124}	SEQUENCE	o.1		o.1		o.1		-		-		-		

E.4.1.14 The X25 PLE DCE managed object

Table E.14 – x25PLE-DCE Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	"Rec. X.721 ISO/IEC 10165-2 : 1992": administrativeState	{2 9 3 2 7 31}	ENUMERATED	c8		o.1		o.1		-		-		-		
2	"Rec. X.721 ISO/IEC 10165-2 : 1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c8		o.1		-		-		-		-		
3	bilateralCUG	{2 13 0 2 7 125}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
4	bilateralCUGWithOutgoingAccess	{2 13 0 2 7 127}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
5	cUG	{2 13 0 2 7 134}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
6	cUGWithIncomingAccess	{2 13 0 2 7 136}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
7	cUGWithOutgoingAccess	{2 13 0 2 7 137}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
8	callAttempts	{2 13 0 2 7 52}	INTEGER	-		o.1		-		-		-		-		
9	callDeflectionSubscription	{2 13 0 2 7 114}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
10	callRedirection	{2 13 0 2 7 129}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
11	callsConnected	{2 13 0 2 7 53}	INTEGER	-		o.1		-		-		-		-		
12	chargingInformation	{2 13 0 2 7 132}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
13	clearIndication	{2 13 0 2 7 133}	INTEGER	c8		o.1		o.1		-		-		-		
14	dBitModification	{2 13 0 2 7 139}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
15	dataPacketsReceived	{2 13 0 2 7 51}	INTEGER	-		o.1		-		-		-		-		
16	dataPacketsSent	{2 13 0 2 7 50}	INTEGER	-		o.1		-		-		-		-		
17	defaultPacketSizes	{2 13 0 2 7 103}	SEQUENCE	c8		o.1		o.1		-		-		o.1		
18	defaultThroughputClasses	{2 13 0 2 7 112}	SEQUENCE	c8		o.1		o.1		-		-		o.1		
19	defaultThroughputClassesAssignment	{2 13 0 2 7 144}	SEQUENCE	c8		o.1		o.1		-		-		o.1		
20	defaultWindowSizes	{2 13 0 2 7 104}	SEQUENCE	c8		o.1		o.1		-		-		o.1		
21	extendedPacketSequenceNumbering	{2 13 0 2 7 49}	INTEGER	c8		o.1		o.1		-		-		o.1		
22	fastSelectAcceptance	{2 13 0 2 7 145}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
23	flowControlParameterNegotiation	{2 13 0 2 7 119}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
24	huntGroup	{2 13 0 2 7 146}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
25	incomingCall	{2 13 0 2 7 147}	INTEGER	c8		o.1		o.1		-		-		-		
26	incomingCallBarredWithinCUG	{2 13 0 2 7 149}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
27	incomingCallsBarred	{2 13 0 2 7 148}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
28	interruptPacketsReceived	{2 13 0 2 7 68}	INTEGER	-		o.1		-		-		-		-		
29	interruptPacketsSent	{2 13 0 2 7 67}	INTEGER	-		o.1		-		-		-		-		
30	interruptTimerExpiries	{2 13 0 2 7 69}	INTEGER	-		o.1		-		-		-		-		
31	localChargingPrevention	{2 13 0 2 7 150}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
32	localDTEAddress	{2 13 0 2 7 39}	SEQUENCE	c8		o.1		o.1		-		-		-		
33	logicalChannelAssignments	{2 13 0 2 7 48}	SEQUENCE	c8		o.1		o.1		-		-		-		
34	nUIOverride	{2 13 0 2 7 154}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
35	nUISubscription	{2 13 0 2 7 153}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
36	"Rec. X.721 ISO/IEC 10165-2 : 1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c8		o.1		-		-		-		-		
37	nonStandardDefaultPacketSizes	{2 13 0 2 7 151}	SEQUENCE	c8		o.1		o.1		-		-		o.1		
38	nonStandardDefaultWindowSizes	{2 13 0 2 7 152}	SEQUENCE	c8		o.1		o.1		-		-		o.1		
39	"Rec. X.721 ISO/IEC 10165-2 : 1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c8		o.1		-		-		-		-		
40	"Rec. X.721 ISO/IEC 10165-2 : 1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	-		o.1		-		-		-		-		
41	"Rec. X.721 ISO/IEC 10165-2 : 1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	-		o.1		-		-		-		-		
42	oneWayLogicalChannelIncoming	{2 13 0 2 7 156}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
43	oneWayLogicalChannelOutgoing	{2 13 0 2 7 157}	BOOLEAN	c8		o.1		o.1		-		-		o.1		

Table E.14 (concluded) – x25PLE-DCE Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
44	onlineFacilityRegistration	{2 13 0 2 7 158}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
45	"Rec. X.721 ISO/IEC 10165-2 : 1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	-		o.1		-		-		-		-		
46	outgoingCallBarredWithinCUG	{2 13 0 2 7 160}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
47	outgoingCallsBarred	{2 13 0 2 7 159}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
48	"Rec. X.721 ISO/IEC 10165-2 : 1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c8		o.1		-		-		-		-		
49	packetRetransmission	{2 13 0 2 7 161}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
50	protocolVersionSupported	{2 13 0 2 7 38}	ENUMERATED	-		o.1		-		-		-		-		
51	providerInitiatedDisconnects	{2 13 0 2 7 54}	INTEGER	-		o.1		-		-		-		-		
52	providerInitiatedResets	{2 13 0 2 7 59}	INTEGER	-		o.1		-		-		-		-		
53	rPOASubscription	{2 13 0 2 7 167}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
54	remotelyInitiatedResets	{2 13 0 2 7 57}	INTEGER	-		o.1		-		-		-		-		
55	remotelyInitiatedRestarts	{2 13 0 2 7 61}	INTEGER	-		o.1		-		-		-		-		
56	resetIndication	{2 13 0 2 7 163}	INTEGER	c8		o.1		o.1		-		-		-		
57	resetTimeouts	{2 13 0 2 7 60}	INTEGER	-		o.1		-		-		-		-		
58	restartIndication	{2 13 0 2 7 164}	INTEGER	c8		o.1		o.1		-		-		-		
59	reverseChargingAcceptance	{2 13 0 2 7 165}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
60	sN-SAP	{2 13 0 2 7 18}	ObjectInstance	-		o.1		-		-		-		-		
61	sN-ServiceProvider	{2 13 0 2 7 19}	ObjectInstance	c8		o.1		o.1		-		-		o.1		
62	throughputClassNegotiation	{2 13 0 2 7 168}	BOOLEAN	c8		o.1		o.1		-		-		o.1		
63	x25PLEId	{2 13 0 2 7 36}	GraphicString	c8		o.1		-		-		-		-		
64	x25PLEMode	{2 13 0 2 7 120}	ENUMERATED	c8		o.1		o.1		-		-		-		
65	x25SegmentsReceived	{2 13 0 2 7 171}	INTEGER	-		o.1		-		-		-		-		
66	x25SegmentsSent	{2 13 0 2 7 170}	INTEGER	-		o.1		-		-		-		-		

c8: IF E.39/1a THEN o.1 ELSE -

E.4.1.15 The X25 PLE DTE managed object

Table E.15 – x25PLE-DTE Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	"Rec. X.721 ISO/IEC 10165-2 : 1992": administrativeState	{2 9 3 2 7 31}	ENUMERATED	c9		o.1		o.1		-		-		-		
2	"Rec. X.721 ISO/IEC 10165-2 : 1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c9		o.1		-		-		-		-		
3	callAttempts	{2 13 0 2 7 52}	INTEGER	-		o.1		-		-		-		-		
4	callDeflectionSubscription	{2 13 0 2 7 114}	BOOLEAN	c9		o.1		o.1		-		-		o.1		
5	callEstablishmentRetryCountsExceeded	{2 13 0 2 7 65}	INTEGER	-		o.1		-		-		-		-		
6	callRequestResponseTimer	{2 13 0 2 7 77}	INTEGER	c9		o.1		o.1		-		-		o.1		
7	callTimeouts	{2 13 0 2 7 55}	INTEGER	-		o.1		-		-		-		-		
8	callsConnected	{2 13 0 2 7 53}	INTEGER	-		o.1		-		-		-		-		
9	clearCountsExceeded	{2 13 0 2 7 66}	INTEGER	-		o.1		-		-		-		-		
10	clearRequestResponseTimer	{2 13 0 2 7 79}	INTEGER	c9		o.1		o.1		-		-		o.1		

Table E.15 (continued) – x25PLE-DTE Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
11	clearRequestRetransmissionCount	{2 13 0 2 7 81}	INTEGER	c9		o.1		o.1		-		-		o.1		
12	clearTimeouts	{2 13 0 2 7 56}	INTEGER	-		o.1		-		-		-		-		
13	dataPacketRetransmissionCount	{2 13 0 2 7 85}	INTEGER	c9		o.1		o.1		-		-		o.1		
14	dataPacketsReceived	{2 13 0 2 7 51}	INTEGER	-		o.1		-		-		-		-		
15	dataPacketsSent	{2 13 0 2 7 50}	INTEGER	-		o.1		-		-		-		-		
16	dataRetransmissionTimerExpires	{2 13 0 2 7 58}	INTEGER	-		o.1		-		-		-		-		
17	defaultPacketSizes	{2 13 0 2 7 103}	SEQUENCE	c9		o.1		o.1		-		-		o.1		
18	defaultThroughputClasses	{2 13 0 2 7 112}	SEQUENCE	c9		o.1		o.1		-		-		o.1		
19	defaultWindowSizes	{2 13 0 2 7 104}	SEQUENCE	c9		o.1		o.1		-		-		o.1		
20	extendedPacketSequenceNumbering	{2 13 0 2 7 49}	INTEGER	c9		o.1		o.1		-		-		o.1		
21	flowControlParameterNegotiation	{2 13 0 2 7 119}	BOOLEAN	c9		o.1		o.1		-		-		o.1		
22	interruptResponseTimer	{2 13 0 2 7 82}	INTEGER	c9		o.1		o.1		-		-		o.1		
23	localDTEAddress	{2 13 0 2 7 39}	SEQUENCE	c9		o.1		o.1		-		-		o.1		
24	logicalChannelAssignments	{2 13 0 2 7 48}	SEQUENCE	c9		o.1		o.1		-		-		-		
25	maxActiveCircuits	{2 13 0 2 7 41}	CHOICE	c9		o.1		o.1		-		-		o.1		
26	minimumRecallTimer	{2 13 0 2 7 43}	INTEGER	c9		o.1		o.1		-		-		o.1		
27	"Rec. X.721 ISO/IEC 10165-2 : 1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c9		o.1		-		-		-		-		
28	"Rec. X.721 ISO/IEC 10165-2 : 1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c9		o.1		-		-		-		-		
29	"Rec. X.721 ISO/IEC 10165-2 : 1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	-		o.1		-		-		-		-		
30	"Rec. X.721 ISO/IEC 10165-2 : 1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	-		o.1		-		-		-		-		
31	"Rec. X.721 ISO/IEC 10165-2 : 1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	-		o.1		-		-		-		-		
32	"Rec. X.721 ISO/IEC 10165-2 : 1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c9		o.1		-		-		-		-		
33	protocolErrorsAccusedOf	{2 13 0 2 7 64}	INTEGER	-		o.1		-		-		-		-		
34	protocolErrorsDetectedLocally	{2 13 0 2 7 63}	INTEGER	-		o.1		-		-		-		-		
35	protocolVersionSupported	{2 13 0 2 7 38}	ENUMERATED	-		o.1		-		-		-		-		
36	providerInitiatedDisconnects	{2 13 0 2 7 54}	INTEGER	-		o.1		-		-		-		-		
37	providerInitiatedResets	{2 13 0 2 7 59}	INTEGER	-		o.1		-		-		-		-		
38	registrationPermitted	{2 13 0 2 7 105}	BOOLEAN	c9		o.1		o.1		-		-		o.1		
39	registrationRequestResponseTimer	{2 13 0 2 7 44}	INTEGER	c9		o.1		o.1		-		-		o.1		
40	registrationRequestRetransmissionCount	{2 13 0 2 7 46}	INTEGER	c9		o.1		o.1		-		-		o.1		
41	rejectResponseTimer	{2 13 0 2 7 86}	INTEGER	c9		o.1		o.1		-		-		o.1		
42	rejectRetransmissionCount	{2 13 0 2 7 87}	INTEGER	c9		o.1		o.1		-		-		o.1		
43	remotelyInitiatedResets	{2 13 0 2 7 57}	INTEGER	-		o.1		-		-		-		-		
44	remotelyInitiatedRestarts	{2 13 0 2 7 61}	INTEGER	-		o.1		-		-		-		-		
45	resetRequestResponseTimer	{2 13 0 2 7 78}	INTEGER	c9		o.1		o.1		-		-		o.1		
46	resetRequestRetransmissionCount	{2 13 0 2 7 80}	INTEGER	c9		o.1		o.1		-		-		o.1		
47	resetTimeouts	{2 13 0 2 7 60}	INTEGER	-		o.1		-		-		-		-		
48	restartCountsExceeded	{2 13 0 2 7 62}	INTEGER	-		o.1		-		-		-		-		
49	restartRequestResponseTimer	{2 13 0 2 7 42}	INTEGER	c9		o.1		o.1		-		-		o.1		
50	restartRequestRetransmissionCount	{2 13 0 2 7 45}	INTEGER	c9		o.1		o.1		-		-		o.1		
51	sN-SAP	{2 13 0 2 7 18}	ObjectInstance	-		o.1		-		-		-		-		

Table E.15 (concluded) – x25PLE-DTE Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
52	sN-ServiceProvider	{2 13 0 2 7 19}	ObjectInstance	c9		o.1		o.1		-		-		o.1		
53	throughputClassNegotiation	{2 13 0 2 7 168}	BOOLEAN	c9		o.1		o.1		-		-		o.1		
54	windowRotationTimer	{2 13 0 2 7 84}	INTEGER	c9		o.1		o.1		-		-		o.1		
55	windowStatusTransmissionTimer	{2 13 0 2 7 83}	INTEGER	c9		o.1		o.1		-		-		o.1		
56	x25PLEId	{2 13 0 2 7 36}	GraphicString	c9		o.1		-		-		-		-		
57	x25PLEMode	{2 13 0 2 7 120}	ENUMERATED	c9		o.1		o.1		-		-		-		

c9: IF E.40/1a THEN o.1 ELSE -

E.4.1.16 The X25 PLE DCE initial values managed object

Table E.16 – x25PLEIVMO-DCE Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	"Rec. X.721 ISO/IEC 10165-2 : 1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	o.1		o.1		-		-		-		-		
2	defaultPacketSizes	{2 13 0 2 7 103}	SEQUENCE	o.1		o.1		o.1		-		-		o.1		
3	defaultThroughputClasses	{2 13 0 2 7 112}	SEQUENCE	o.1		o.1		o.1		-		-		o.1		
4	defaultWindowSizes	{2 13 0 2 7 104}	SEQUENCE	o.1		o.1		o.1		-		-		o.1		
5	flowControlParameterNegotiation	{2 13 0 2 7 119}	BOOLEAN	o.1		o.1		o.1		-		-		o.1		
6	localDTEAddress	{2 13 0 2 7 39}	SEQUENCE	o.1		o.1		o.1		-		-		-		
7	logicalChannelAssignments	{2 13 0 2 7 48}	SEQUENCE	o.1		o.1		o.1		-		-		-		
8	"Rec. X.721 ISO/IEC 10165-2 : 1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	o.1		o.1		-		-		-		-		
9	"Rec. X.721 ISO/IEC 10165-2 : 1992": objectClass	{2 9 3 2 7 65}	ObjectClass	o.1		o.1		-		-		-		-		
10	"Rec. X.721 ISO/IEC 10165-2 : 1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	o.1		o.1		-		-		-		-		
11	sN-ServiceProvider	{2 13 0 2 7 19}	ObjectInstance	o.1		o.1		o.1		-		-		-		
12	throughputClassNegotiation	{2 13 0 2 7 168}	BOOLEAN	o.1		o.1		o.1		-		-		o.1		
13	x25PLEIVMOld	{2 13 0 2 7 37}	GraphicString	o.1		o.1		-		-		-		-		
14	x25PLEMode	{2 13 0 2 7 120}	ENUMERATED	o.1		o.1		o.1		-		-		-		

E.4.1.17 The X25 PLE DTE initial values managed object

Table E.17 – x25PLEIVMO-DTE Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	"Rec. X.721 ISO/IEC 10165-2 : 1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	o.1		o.1		-		-		-		-		
2	callDeflectionSubscription	{2 13 0 2 7 114}	BOOLEAN	o.1		o.1		o.1		-		-		o.1		
3	callRequestResponseTimer	{2 13 0 2 7 77}	INTEGER	o.1		o.1		o.1		-		-		o.1		
4	clearRequestResponseTimer	{2 13 0 2 7 79}	INTEGER	o.1		o.1		o.1		-		-		o.1		
5	clearRequestRetransmissionCount	{2 13 0 2 7 81}	INTEGER	o.1		o.1		o.1		-		-		o.1		
6	dataPacketRetransmissionCount	{2 13 0 2 7 85}	INTEGER	o.1		o.1		o.1		-		-		o.1		
7	defaultPacketSizes	{2 13 0 2 7 103}	SEQUENCE	o.1		o.1		o.1		-		-		o.1		
8	defaultThroughputClasses	{2 13 0 2 7 112}	SEQUENCE	o.1		o.1		o.1		-		-		o.1		

Table E.17 (concluded) – x25PLEIVMO-DTE Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
9	defaultWindowSize	{2 13 0 2 7 104}	SEQUENCE	o,1		o,1		o,1		-		-		o,1		
10	extendedPacketSequenceNumbering	{2 13 0 2 7 49}	INTEGER	o,1		o,1		o,1		-		-		o,1		
11	flowControlParameterNegotiation	{2 13 0 2 7 119}	BOOLEAN	o,1		o,1		o,1		-		-		o,1		
12	interruptResponseTimer	{2 13 0 2 7 82}	INTEGER	o,1		o,1		o,1		-		-		o,1		
13	localDTEAddress	{2 13 0 2 7 39}	SEQUENCE	o,1		o,1		o,1		-		-		-		
14	logicalChannelAssignments	{2 13 0 2 7 48}	SEQUENCE	o,1		o,1		o,1		-		-		-		
15	maxActiveCircuits	{2 13 0 2 7 41}	CHOICE	o,1		o,1		o,1		-		-		o,1		
16	minimumRecallTimer	{2 13 0 2 7 43}	INTEGER	o,1		o,1		o,1		-		-		o,1		
17	"Rec. X.721 ISO/IEC 10165-2 : 1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	o,1		o,1		-		-		-		-		
18	"Rec. X.721 ISO/IEC 10165-2 : 1992": objectClass	{2 9 3 2 7 65}	ObjectClass	o,1		o,1		-		-		-		-		
19	"Rec. X.721 ISO/IEC 10165-2 : 1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	o,1		o,1		-		-		-		-		
20	registrationPermitted	{2 13 0 2 7 105}	BOOLEAN	o,1		o,1		o,1		-		-		o,1		
21	registrationRequestResponseTimer	{2 13 0 2 7 44}	INTEGER	o,1		o,1		o,1		-		-		o,1		
22	registrationRequestRetransmissionCount	{2 13 0 2 7 46}	INTEGER	o,1		o,1		o,1		-		-		o,1		
23	rejectResponseTimer	{2 13 0 2 7 86}	INTEGER	o,1		o,1		o,1		-		-		o,1		
24	rejectRetransmissionCount	{2 13 0 2 7 87}	INTEGER	o,1		o,1		o,1		-		-		o,1		
25	resetRequestResponseTimer	{2 13 0 2 7 78}	INTEGER	o,1		o,1		o,1		-		-		o,1		
26	resetRequestRetransmissionCount	{2 13 0 2 7 80}	INTEGER	o,1		o,1		o,1		-		-		o,1		
27	restartRequestResponseTimer	{2 13 0 2 7 42}	INTEGER	o,1		o,1		o,1		-		-		o,1		
28	restartRequestRetransmissionCount	{2 13 0 2 7 45}	INTEGER	o,1		o,1		o,1		-		-		o,1		
29	sN-ServiceProvider	{2 13 0 2 7 19}	ObjectInstance	o,1		o,1		o,1		-		-		-		
30	throughputClassNegotiation	{2 13 0 2 7 168}	BOOLEAN	o,1		o,1		o,1		-		-		o,1		
31	windowRotationTimer	{2 13 0 2 7 84}	INTEGER	o,1		o,1		o,1		-		-		o,1		
32	windowStatusTransmissionTimer	{2 13 0 2 7 83}	INTEGER	o,1		o,1		o,1		-		-		o,1		
33	x25PLEIVMOld	{2 13 0 2 7 37}	GraphicString	o,1		o,1		-		-		-		-		
34	x25PLEMode	{2 13 0 2 7 120}	ENUMERATED	o,1		o,1		o,1		-		-		-		

E.4.2 Attribute groups

The specifier of a manager role implementation that claims to support management operations on the attribute groups specified in this International Standard shall import a copy of this table and complete it.

E.4.2.1 The CLNS managed object

Table E.18 – cLNS Attribute group support

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": counters	{2 9 3 5 8 0}		o,1		-		
2	"Rec. X.721 ISO/IEC 10165-2 : 1992": state	{2 9 3 2 8 1}		o,1		-		

E.4.2.2 The CONS managed object**Table E.19 – cONS Attribute group support**

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	"Rec. X.721 ISO/IEC 10165-2 : 1992": state	{2 9 3 2 8 1}		o.1		-		

E.4.2.3 The recommendation D series counts managed object**Table E.20 – dSeriesCounts Attribute group support**

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": counters	{2 9 3 5 8 0}		o.1		-		

E.4.2.4 The linkage managed object**Table E.21 – linkage Attribute group support**

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": counters	{2 9 3 5 8 0}		o.1		-		
2	"Rec. X.721 ISO/IEC 10165-2 : 1992": state	{2 9 3 2 8 1}		o.1		-		

E.4.2.5 The permanent virtual circuit DCE managed object**Table E.22 – permanentVirtualCircuit-DCE Attribute group support**

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": counters	{2 9 3 5 8 0}		o.1		-		
2	"Rec. X.721 ISO/IEC 10165-2 : 1992": state	{2 9 3 2 8 1}		o.1		-		

E.4.2.6 The permanent virtual circuit DTE managed object**Table E.23 – permanentVirtualCircuit-DTE Attribute group support**

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": counters	{2 9 3 5 8 0}		o.1		-		

E.4.2.7 The virtual call DCE managed object**Table E.24 – virtualCall-DCE Attribute group support**

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": counters	{2 9 3 5 8 0}		o.1		-		

E.4.2.8 The virtual call DTE managed object**Table E.25 – virtualCall-DTE Attribute group support**

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": counters	{2 9 3 5 8 0}		o.1		-		

E.4.2.9 The X25 PLE DCE managed object**Table E.26 – x25PLE-DCE Attribute group support**

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": counters	{2 9 3 5 8 0}		o.1		-		
2	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": counters	{2 9 3 5 8 0}		o.1		-		
3	"Rec. X.721 ISO/IEC 10165-2 : 1992": state	{2 9 3 2 8 1}		o.1		-		

E.4.2.10 The X25 PLE DTE managed object**Table E.27 – x25PLE-DTE Attribute group support**

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": counters	{2 9 3 5 8 0}		o.1		-		
2	"CCITT Rec. X.723 (1993) ISO/IEC 10165-5 : 1993": counters	{2 9 3 5 8 0}		o.1		-		
3	"Rec. X.721 ISO/IEC 10165-2 : 1992": state	{2 9 3 2 8 1}		o.1		-		

E.4.3 Create and delete management operations

The specifier of a manager role implementation that claims to support the create or delete management operations on the managed objects specified in this International Standard shall import a copy of this table and complete them.

E.4.3.1 The CLNS managed object**Table E.28 – cLNS create and delete support**

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	cLNS MO	o		
1.1	Create with reference object	—	—		
2	Delete support	cLNS MO	o		

E.4.3.2 The CONS managed object**Table E.29 – cONS create and delete support**

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	cONS MO	o		
1.1	Create with reference object	—	—		
2	Delete support	cONS MO	o		

E.4.3.3 The recommendation D series counts managed object**Table E.30 – dSeriesCounts create and delete support**

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	dSeriesCounts MO	o		
1.1	Create with reference object	—	—		
2	Delete support	dSeriesCounts MO	o.1		

E.4.3.4 The linkage managed object**Table E.31 – linkage create and delete support**

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	linkage MO	o		
1.1	Create with reference object	—	—		
2	Delete support	linkage MO	o		

E.4.3.5 The NSAP managed object**Table E.32 – nSAP create and delete support**

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	nSAP MO	o		
1.1	Create with reference object	—	—		
2	Delete support	nSAP MO	o		

E.4.3.6 The network connection managed object**Table E.33 – networkConnection create and delete support**

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	networkConnection MO	—		
1.1	Create with reference object	—	—		
2	Delete support	networkConnection MO	o		

E.4.3.7 The network entity managed object**Table E.34 – networkEntity create and delete support**

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	networkEntity MO	o		
1.1	Create with reference object	—	—		
2	Delete support	networkEntity MO	o		

E.4.3.8 The permanent virtual circuit DCE managed object**Table E.35 – permanentVirtualCircuit-DCE create and delete support**

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	permanentVirtualCircuit-DCE MO	o.1		
1.1	Create with reference object	—	—		
2	Delete support	permanentVirtualCircuit-DCE MO	o.1		

E.4.3.9 The permanent virtual circuit DTE managed object**Table E.36 – permanentVirtualCircuit-DTE create and delete support**

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	permanentVirtualCircuit-DTE MO	o.1		
1.1	Create with reference object	—	—		
2	Delete support	permanentVirtualCircuit-DTE MO	o.1		

E.4.3.10 The virtual call DCE managed object**Table E.37 – virtualCall-DCE create and delete support**

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	virtualCall-DCE MO	o		
1.1	Create with reference object	—	—		
2	Delete support	virtualCall-DCE MO	o.1		

E.4.3.11 The virtual call initial values managed object**Table E.38 – virtualCallIVMO create and delete support**

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	virtualCallIVMO MO	o.1		
1.1	Create with reference object	—	—		
2	Delete support	virtualCallIVMO MO	o.1		

E.4.3.12 The X25 PLE DCE managed object**Table E.39 – x25PLE-DCE create and delete support**

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	x25PLE-DCE MO	o		
1.1	Create with reference object	—	o		
2	Delete support	x25PLE-DCE MO	o.1		

E.4.3.13 The X25 PLE DTE managed object**Table E.40 – x25PLE-DTE create and delete support**

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	x25PLE-DTE MO	o		
1.1	Create with reference object	—	o		
2	Delete support	x25PLE-DTE MO	o.1		

E.4.3.14 The X25 PLE DCE initial values managed object**Table E.41 – x25PLEIVMO-DCE create and delete support**

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	x25PLEIVMO-DCE MO	o.1		
1.1	Create with reference object	—	o.1		
2	Delete support	x25PLEIVMO-DCE MO	o.1		

E.4.3.15 The X25 PLE DTE initial values managed object**Table E.42 – x25PLEIVMO-DTE create and delete support**

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	x25PLEIVMO-DTE MO	o.1		
1.1	Create with reference object	—	o.1		
2	Delete support	x25PLEIVMO-DTE MO	o.1		

E.4.4 Notifications

The specifier of a manager role implementation that claims to support the notifications specified in this International Standard shall import a copy of this table and complete it.

Table E.43 – Notification support

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Confirmed	Nonconfirmed								
1	"Rec. X.721 ISO/IEC 10165-2 : 1992": communicationsAlarm	{2 9 3 2 10 2}		c10				1.1	AlarmInfo	-	Information Syntax SEQUENCE	c10		
								1.1.1	probableCause	{2 9 3 2 7 18}	CHOICE	c:m		
								1.1.1.1	globalValue	-	OBJECT IDENTIFIER	c:m		
								1.1.1.2	localValue	-	INTEGER	c:m		
								1.1.2	specificProblems	{2 9 3 2 7 27}	SET OF CHOICE	c:m		
								1.1.2.1	OBJECT IDENTIFIER	-	OBJECT IDENTIFIER	c:m		
								1.1.2.2	INTEGER	-	INTEGER	c:m		

Table E.43 (continued) – Notification support

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Confirmed	Nonconfirmed								
								1.1.3	perceivedSeverity	{2 9 3 2 7 17}	ENUMERATED	c:m		
								1.1.4	backedUpStatus	{2 9 3 2 7 11}	BOOLEAN	c:m		
								1.1.5	backUpObject	{2 9 3 2 7 40}	ObjectInstance	c:m		
								1.1.6	trendIndication	{2 9 3 2 7 30}	ENUMERATED	c:m		
								1.1.7	thresholdInfo	{2 9 3 2 7 29}	SEQUENCE	c:m		
								1.1.7.1	triggeredThreshold	-	AttributeId	c:m		
								1.1.7.2	observedValue	-	CHOICE	c:m		
								1.1.7.2.1	integer	-	INTEGER	c:m		
								1.1.7.2.2	real	-	REAL	c:m		
								1.1.7.3	thresholdLevel	-	CHOICE	c:m		
								1.1.7.3.1	up	-	SEQUENCE	c:m		
								1.1.7.3.1.1	high	-	CHOICE	c:m		
								1.1.7.3.1.1.1	integer	-	INTEGER	c:m		
								1.1.7.3.1.1.2	real	-	REAL	c:m		
								1.1.7.3.1.2	low	-	CHOICE	c:m		
								1.1.7.3.1.2.1	integer	-	INTEGER	c:m		
								1.1.7.3.1.2.2	real	-	REAL	c:m		
								1.1.7.3.2	down	-	SEQUENCE	c:m		
								1.1.7.3.2.1	high	-	CHOICE	c:m		
								1.1.7.3.2.1.1	integer	-	INTEGER	c:m		
								1.1.7.3.2.1.2	real	-	REAL	c:m		
								1.1.7.3.2.2	low	-	CHOICE	c:m		
								1.1.7.3.2.2.1	integer	-	INTEGER	c:m		
								1.1.7.3.2.2.2	real	-	REAL	c:m		
								1.1.7.4	armTime	-	GeneralizedTime	c:m		
								1.1.8	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	c:m		
								1.1.9	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	c:m		
								1.1.9.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								1.1.9.2	sourceObjectInst	-	ObjectInstance	c:m		
								1.1.10	stateChangeDefinition	{2 9 3 2 7 28}	SET OF SEQUENCE	c:m		
								1.1.10.1	attributeID	-	AttributeId	c:m		
								1.1.10.2	oldAttributeValue	-	ANY DEFINED BY attributeID	c:m		
								1.1.10.3	newAttributeValue	-	ANY DEFINED BY attributeID	c:m		
								1.1.11	monitoredAttributes	{2 9 3 2 7 15}	SET OF Attribute	c:m		
								1.1.12	proposedRepairActions	{2 9 3 2 7 19}	SET OF CHOICE	c:m		