UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS

UIT-T

SECTEUR DE LA NORMALISATION
DES TÉLÉCOMMUNICATIONS
DE L'UIT

X.284

Amendement 2
(10/96)

SÉRIE X: RÉSEAUX DE DONNÉES ET COMMUNICATION ENTRE SYSTÈMES OUVERTS

Interconnexion des systèmes ouverts - Objets gérés de couche

Eléments d'information de gestion associés à la couche transport de l'interconnexion des systèmes ouverts

Amendement 2: Formulaires de déclaration de conformité d'instance

Recommandation UIT-T X.284 - Amendement 2
Remplacée par une version plus récente

(Antérieurement «Recommandation du CCITT»)

Remplacée par une version plus récente

RECOMMANDATIONS UIT-T DE LA SÉRIE X

RÉSEAUX DE DONNÉES ET COMMUNICATION ENTRE SYSTÈMES OUVERTS

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Pour plus de détails, voir la Liste des Recommandations de l'UIT-T.

Remplacée par une version plus récente

AVANT-PROPOS

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

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

L'approbation des Recommandations par les Membres de l'UIT-T s'effectue selon la procédure définie dans la Résolution n° 1 de la CMNT (Helsinki, 1er-12 mars 1993).

L'amendement 2 à la Recommandation UIT-T X.284, que l'on doit à la Commission d'études 7 (1993-1996) de l'UIT-T, a été approuvée le 5 octobre 1996 selon la procédure définie dans la Résolution n° 1 de la CMNT.

NOTE

Dans la présente Recommandation, l'expression «Administration» est utilisée pour désigner de façon abrégée aussi bien une administration de télécommunications qu'une exploitation reconnue de télécommunications.

TABLE DES MATIÈRES

RÉSUMÉ

Le présent amendement contient les déclarations de conformité d'instance à utiliser conjointement avec les éléments d'information de gestion associés à la couche Transport de l'OSI.

Remplacée par une version plus récente

Amendement 2 à la Recommandation X.284

ELÉMENTS D'INFORMATION DE GESTION ASSOCIÉS À LA COUCHE TRANSPORT DE L'INTERCONNEXION DES SYSTÈMES OUVERTS

AMENDEMENT 2
Formulaires de déclaration de conformité d'instance

(Genève, 1996)

1) Ajouter l'alinéa suivant à la fin de l'article 1 «champ d'application»:

Les Annexes D, E, F et G, qui font partie intégrante de la présente Recommandation, contiennent les formulaires de déclaration de conformité d'instance (ICS, *implementation conformance statement*) associés aux informations de gestion associées à la couche Transport.

2) Inserér la référence suivante, par ordre numérique, au paragraphe 2.1:

- Recommandation UIT-T X.724 (1993) | ISO/CEI 10165-6:1994, *Technologies de l'information – Interconnexion des systèmes ouverts – Structure de l'information de gestion: spécifications et directives pour l'établissement des formulaires de déclaration de conformité d'instances associés à la gestion OSI.*

3) Inserér les références suivantes, par ordre numérique, au paragraphe 2.2:

- Recommandation X.209 du CCITT (1988), *Spécification des règles de codage de base pour la notation de syntaxe abstraite numéro un (ASN.1).*

  ISO/CEI 8825:1990, *Technologies de l'information - Interconnexion de systèmes ouverts – Spécification de règles de base pour coder la notation de syntaxe abstraite numéro une (ASN.1).*

- Recommandation UIT-T X.290 (1995), *Cadre général et méthodologie des tests de conformité d'interconnexion des systèmes ouverts pour les Recommandations sur les protocoles pour les applications de l'UIT-T – Concepts généraux.*

  ISO/CEI 9646-1:1994, *Technologies de l'information – Interconnexion de systèmes ouverts – Cadre général et méthodologie des tests de conformité OSI – Partie 1: Concepts généraux.*

- Recommendation UIT-T X.291 (1995), *Cadre général et méthodologie des tests de conformité d'interconnexion des systèmes ouverts pour les Recommandations sur les protocoles pour les applications de l'UIT-T – Spécification de suite de tests abstraite.*

  ISO/CEI 9646-2:1994, *Technologies de l'information – Interconnexion de systèmes ouverts – Cadre général et méthodologie des tests de conformité OSI – Partie 2: Spécification des suites de tests abstraites.*

- Recommandation UIT-T X.296 (1995), *Cadre général et méthodologie des tests de conformité OSI pour les Recommandations sur les protocoles pour les applications de l'UIT-T – Déclarations de conformité d'instance*.

  ISO/CEI 9646-7:1995, *Technologies de l'information – Interconnexion de systèmes ouverts (OSI) – Essais de conformité – Méthodologie générale et procédures – Partie 7: Déclarations de conformité des mises en œuvre.*

4) Inserér les abréviations suivantes à l'article 4:

MCS	Récapitulatif de conformité de gestion (*management conformance summary*)
MICS	Déclaration de conformité d'information de gestion (*management information conformance statement*)
MOCS	Déclaration de conformité d'objet géré (*managed object conformance statement*)
MRCS	Déclaration de conformité de relation gérée (*managed relationship conformance statement*)
NCMS	Sous-protocole de gestion de la connexion de réseau (*network connection management subprotocol*)

5) Remplacer l'article 7 par ce qui suit:

7 Conformité

Les instances réputées conformes à la présente Recommandation doivent satisfaire aux prescriptions de conformité qui sont définies dans les paragraphes ci-après.

7.1 Prescriptions de conformité à la présente Recommandation

7.1.1 Conformité statique

L'instance doit être conforme aux prescriptions de la présente Recommandation dans le rôle de gestionnaire, dans le rôle d'agent ou dans ces deux rôles. Une revendication de conformité à l'un de ces deux rôles au moins doit être formulée selon le Tableau D.1.

Si une revendication de conformité est formulée à l'appui du rôle de gestionnaire, l'instance doit prendre en charge au moins une opération ou notification ou action de gestion des objets gérés spécifiés dans la présente Recommandation. Les prescriptions de conformité du rôle de gestionnaire pour ces opérations, notifications et actions de gestion sont indiquées dans le Tableau D.3 et dans d'autres tableaux mentionnés dans l'Annexe D.

Si une revendication de conformité est formulée à l'appui du rôle d'agent, l'instance doit prendre en charge une ou plusieurs instances de la classe d'objets gérés «sous-système de couche transport», de la classe d'objets gérés «entité de transport» et de la classe d'objets gérés «point TSAP» identifiées dans le Tableau D.4 et dans d'autres tableaux mentionnés dans l'Annexe D.

Si une revendication de conformité est formulée à l'appui du rôle d'agent, l'instance doit prendre en charge, pour chaque objet géré considéré, au moins une des corrélations de noms identifiées dans le Tableau D.7.

L'instance doit prendre en charge la syntaxe de transfert dérivée des règles de codage spécifiées dans la Recommandation X.209 du CCITT et de l'ISO/CEI 8825, nommée {joint-iso-ccitt asn1(1) basicEncoding(1)} pour les types de données abstraites visés par les définitions dont la prise en charge est revendiquée.

7.1.2 Conformité dynamique

Les instances réputées conformes à la présente Recommandation doivent prendre en charge les éléments de procédure et les définitions d'éléments sémantiques correspondant aux définitions dont la prise en charge est revendiquée.

7.1.3 Prescriptions relatives aux déclarations de conformité des instances de gestion

Tout formulaire MCS, MICS, MOCS et MRCS, conforme à la présente Recommandation, doit être techniquement identique aux formulaires spécifiés dans les Annexes D, E, F et G sans modification de la numérotation des tableaux ni de celle des index d'items, la seule différence étant la pagination les bas et les en-têtes de page.

Le fournisseur d'une instance réputée conforme à la présente Recommandation doit remplir un exemplaire du récapitulaif de conformité de gestion (MCS) fourni dans l'Annexe D dans le cadre des prescriptions de conformité, ainsi que tout autre formulaire de déclaration ICS indiqué comme étant applicable à partir de ce récapitulatif MCS. Tout formulaire MCS, MICS, MOCS ou MRCS, conforme à la présente Recommandation, doit:

- décrire une instance conforme à la présente Recommandation;
- avoir été rempli conformément aux instructions données dans la Rec. UIT-T X.724 | ISO/CEI 10165-6;
- comporter les informations nécessaires pour identifier de façon univoque aussi bien le fournisseur que l'instance.

7.2 Prescriptions de conformité propres au protocole

Le fournisseur d'une instance réputée conforme à la présente Recommandation doit prendre en charge au moins un des protocoles identifiés dans le Tableau D.2.

7.2.1 Conformité à la Rec. UIT-T X.224 et à l' ISO/CEI 8073

Une instance réputée conforme à la Rec. UIT-T X.224 et ISO/CEI 8073 dans le rôle d'agent en tant qu'instance gérée doit:

a) être conforme à la Rec. UIT-T X.284 et ISO/CEI 10737 comme indiqué au 7.1;

b) prendre en charge l'objet géré «comodeTPM», l'objet géré «transportConnection» et l'objet géré «transportConnectionIVMO»;

c) prendre en charge l'objet géré « ncmsPM», l'objet géré «ncc» et l'objet géré «nccIVMO», si le fournisseur de l'instance prend en charge le sous-protocole de gestion de connexion de couche Réseau.

7.2.2 Conformité à l'ISO 8602

Une instance réputée conforme à l'ISO 8602 dans le rôle d'agent en tant qu'instance gérée doit:

a) être conforme à la Rec. UIT-T X.284 et ISO/CEI 10737 comme indiqué au 7.1;

b) prendre en charge l'objet géré «clmodeTPM».

6) Après l'Annexe C, ajouter les Annexes D, E, F et G.

Annexe D[1)]

Formulaire MCS

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 MCS[2)]

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 Recommendation, the following common notations, defined in CCITT Rec. X.291 and ISO/IEC 9646-2 and ITU-T Rec. X.296 and ISO/IEC 9646-7, are used for the Status column:

m Mandatory

o Optional

c Conditional

x Prohibited

– Not applicable or out of scope

NOTE 1 – "c", "m", and "o" are prefixed by a "c:" when nested under a conditional or optional item of the same table.

NOTE 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 Recommendation, the following common notations, defined in CCITT Rec. X.291 and ISO/IEC 9646-2 and ITU-T Rec. X.296 and 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) **Droits de reproduction du formulaire MCS**
Les utilisateurs de la présente Recommandation sont autorisés à reproduire le formulaire MCS de la présente annexe pour utiliser celui-ci conformément à son objet. Ils sont également autorisés à publier le formulaire une fois celui-ci complété.

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 Recommendation 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 Recommendation which specifies the management information to which conformance is claimed, in the box below.

Recommendation 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 Recommendation, 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 Recommendation, 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 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/X.284

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/X.284

Protocol

Index	Protocol supported	Status	Support	Additional information
1	Connection-mode support	o.2		
2	Connectionless-mode 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/X.284

Manager role minimum conformance requirement

Index	Item	Status	Support	Additional information
1	Operations on managed objects	c1		
2	Object creation notification for Transport entity managed object	c1		
3	Object deletion notification for Transport entity managed object	c1		
4	Communications Alarm notification for Transport entity managed object	c1		
5	Object creation notification for Connectionless-mode transport protocol machine managed object	c2		
6	Object deletion notification for Connectionless-mode transport protocol machine managed object	c2		
7	State change notification for Connectionless-mode transport protocol machine managed object	c2		
8	Communications Alarm notification for Connectionless-mode transport protocol machine managed object	c2		
9	Activate action for Connectionless-mode transport protocol machine managed object	c2		

TABLE D.3/X.284 *(concluded)*

Manager role minimum conformance requirement

Index	Item	Status	Support	Additional information
10	Deactivate action for Connectionless-mode transport protocol machine managed object	c2		
11	Communications information notification for Connection-oriented transport protocol machine managed object	c3		
12	Object creation notification for Connection-oriented transport protocol machine managed object	c3		
13	Object deletion notification for Connection-oriented transport protocol machine managed object	c3		
14	State change notification for Connection-oriented transport protocol machine managed object	c3		
15	Activate action for Connection-oriented transport protocol machine managed object	c3		
16	Deactivate action for Connection-oriented transport protocol machine managed object	c3		
17	Object creation notification for TSAP managed object	c1		
18	Object deletion notification for TSAP managed object	c1		
19	Communications information notification for Transport connection managed object	c3		
20	Object creation notification for Transport connection managed object	c3		
21	Object deletion notification for Transport connection managed object	c3		
22	Communications information notification for NCMS protocol machine managed object	c4		
23	Object creation notification for NCMS protocol machine managed object	c4		
24	Object deletion notification for NCMS protocol machine managed object	c4		
25	State change notification for NCMS protocol machine managed object	c4		
26	Activate action for NCMS protocol machine managed object	c4		
27	Deactivate action for NCMS protocol machine managed object	c4		
28	Object creation notification for Network connection control managed object	c4		
29	Object deletion notification for Network connection control managed object	c4		
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 then o else –				

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

TABLE D.4/X.284

Agent role minimum conformance requirement

Index	Item	Status	Support	Additional information
1	Transport subsystem managed object	m		
2	Transport entity managed object	m		
3	Connectionless transport protocol machine managed object	c5		
4	Connection oriented transport protocol machine managed object	c6		
5	Transport SAP managed object	m		
6	Transport connection managed object	c6		
7	Transport connection initial values managed object	c6		
8	NCMS protocol machine managed object	c7		
9	Network connection control managed object	c7		
10	Network connection control initial values managed object	c7		
c5: if D.1/2a and D.2/2a then m else – c6: if D.1/2a and D.2/1a then m else – c7: if D.1/2a and D.2/1a then o else –				

TABLE D.5/X.284

Logging of event records

Index		Status	Support	Additional information
1	Does the implementation support logging of event records in agent role?	c8		
c8: if D.1/2a then o else –				

NOTE – Conformance to this Recommendation 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 Recommendations | International Standards summarized in the following tables. For each Recommendation | 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 to 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/X.284

MOCS support summary

Index	Identification of the document that includes the MOCS proforma	Table numbers of MOCS proforma	Description	Con-straints and values	Status	Support	Table numbers of MOCS	Addi-tional infor-mation
1	"ISO/IEC 10737"	Table F.1 – F.4	transportSubsystem	–	m			
2	"ISO/IEC 10737"	Table F.5 – F.11	transportEntity	–	m			
3	"ISO/IEC 10737"	Table F.12 – F.19	clmodeTPM	–	c9			
4	"ISO/IEC 10737"	Table F.20 – F.27	comodeTPM	–	c10			
5	"ISO/IEC 10737"	Table F.28 – F.32	tSAP	–	m			
6	"ISO/IEC 10737"	Table F.33 – F.39	transportConnection	–	c11			
7	"ISO/IEC 10737"	Table F.40 – F.43	transportConnectionIVMO	–	c12			
8	"ISO/IEC 10737"	Table F.44 – F.47	communicationInformationRecord	–	c13			
9	"ISO/IEC 10737"	Table F.48 – F.54	ncmsPM	–	c14			
10	"ISO/IEC 10737"	Table F.55 – F.59	ncc	–	c15			
11	"ISO/IEC 10737"	Table F.60 – F.63	nccIVMO	–	c16			
12	"ISO/IEC 10164-1"	Table C.1 – C.4	objectCreationRecord	–	c17			
13	"ISO/IEC 10164-1"	Table C.5 – C.8	objectDeletionRecord	–	c17			
14	"ISO/IEC 10164-2"	Table C.1 – C.4	stateChangeRecord	–	c17			
15	"ISO/IEC 10164-4"	Table C.1 – C.4	alarmRecord	–	c17			
c9: if D.4/3a then m else – c10: if D.4/4a then m else – c11: if D.4/6a then m else – c12: if D.4/7a then m else – c13: if (D.4/4a or D.4/6a or D.4/8a) and D.5/1a then m else – c14: if D.4/8a then m else – c15: if D.4/9a then m else – c16: if D.4/10a then m else – c17: if D.5/1a then m else –								

TABLE D.7/X.284

MRCS support summary

Index	Identification of the document that includes the MRCS proforma	Table numbers of MRCS proforma	Description	Con-straints and values	Status	Support	Table numbers of MRCS	Addi-tional infor-mation
1	"ISO/IEC 10737"	Table G.1/1	transportSubsystem-system	–	o.4			
2	"ISO/IEC 10737"	Table G.1/2	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": subsystem-system	–	o.4			
3	"ISO/IEC 10737"	Table G.1/3	transportEntity-transportSubsystem-Automatic	–	o.5			
4	"ISO/IEC 10737"	Table G.1/4	transportEntity-transportSubsystem-Management	–	o.5			
5	"ISO/IEC 10737"	Table G.1/5	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsEntity-subsystems	–	o.5			
6	"ISO/IEC 10737"	Table G.1/6	clmodeTPM-transportEntity-Automatic	–	c18			
7	"ISO/IEC 10737"	Table G.1/7	clmodeTPM-transportEntity-Management	–	c18			
8	"ISO/IEC 10737"	Table G.1/8	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": clProtocolMachine-entity	–	c18			
9	"ISO/IEC 10737"	Table G.1/9	comodeTPM-transportEntity-Automatic	–	c19			
10	"ISO/IEC 10737"	Table G.1/10	comodeTPM-transportEntity-Management	–	c19			
11	"ISO/IEC 10737"	Table G.1/11	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": coProtocolMachine-entity	–	c19			
12	"ISO/IEC 10737"	Table G.1/12	tSAP-transportEntity-Automatic	–	o.8			
13	"ISO/IEC 10737"	Table G.1/13	tSAP-transportEntity-Management	–	o.8			
14	"ISO/IEC 10737"	Table G.1/14	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": sap1-communicationsEntity	–	o.8			
15	"ISO/IEC 10737"	Table G.1/15	transportConnection-comodeTPM	–	c20			
16	"ISO/IEC 10737"	Table G.1/16	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": singlePeerConnection-coProtocolMachine	–	c20			
17	"ISO/IEC 10737"	Table G.1/17	transportConnectionIVMO-comodeTPM	–	c21			
18	"ISO/IEC 10737"	Table G.1/18	ncmsPM-transportEntity-Automatic	–	c22			
19	"ISO/IEC 10737"	Table G.1/19	ncmsPM-transportEntity-Management	–	c22			
20	"ISO/IEC 10737"	Table G.1/20	ncc-ncmsPM	–	c23			
21	"ISO/IEC 10737"	Table G.1/21	nccIVMO-ncmsPM	–	c24			
22	"ISO/IEC 10164-6"	Table D.1/1	logRecord-log	–	c25			

c18: if D.6/3a then o.6 else –
c19: if D.6/4a then o.7 else –
c20: if D.6/6a then o.9 else –
c21: if D.6/7a then m else –
c22: if D.6/8a then o.10 else –
c23: if D.6/9a then m else –
c24: if D.6/10a then m else –
c25: if D.6/8a or D.6/12a or D.6/13a or D.6/14a or D.6/15a then o else –

TABLE D.8/X.284

MICS support summary

Index	Identification of the document that includes the MICS proforma	Table numbers of MICS proforma	Description	Con-straints and values	Status	Support	Table numbers of MICS	Addi-tional infor-mation
1	"ISO/IEC 10737"	Table E.1 – E.23	Management operations	–	c26			
2	"ISO/IEC 10737"	Table E.24	Notifications	–	c27			
3	"ISO/IEC 10737"	Table E.25	Actions	–	c28			

c26: if D.3/1a then m else –

c27: if D.3/2a or D.3/3a or D.3/4a or D.3/5a or D.3/6a or D.3/7a or D.3/8a or D.3/11a or D.3/12a or D.3/13a or D.3/14a or D.3/17a or D.3/18a 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.3/28a or D.3/29a then m else –

c28: if D.3/9a or D.3/10a or D.3/15a or D.3/16a or D.3/26a or D.3/27a then m else –

Annexe E[3)]

Formulaire MICS

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 Recommendation, 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 supplier of the implementation shall state which items are supported in the 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 and 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 Recommendation shall import a copy of the following tables and complete them.

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3) **Droits de reproduction du formulaire MICS**
Les utilisateurs de la présente Recommandation sont autorisés à reproduire le formulaire MICS de la présente annexe pour utiliser celui-ci conformément à son objet. Ils sont également autorisés à publier le formulaire une fois celui-ci complété.

E.4.1.1 The transport subsystem managed object

TABLE E.1/X.284

transportSubsystem Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	–		o.11		–		–		–		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	–		o.11		–		–		–		–		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	–		o.11		–		–		–		–		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	–		o.11		–		–		–		–		
5	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": subsystemId	{2 9 3 5 7 11}	GraphicString	–		o.11		–		–		–		–		

E.4.1.2 The transport entity managed object

TABLE E.2/X.284

transportEntity Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
1	actualNSAP	{2 14 0 7 4}	SET OF other	–		o.11		–		–		–		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c1		o.11		–		–		–		–		
3	checksumErrorsDelected	{2 14 0 7 6}	INTEGER	–		o.11		–		–		–		–		
4	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsEntityId	{2 9 3 5 7 0}	GraphicString	c1		o.11		–		–		–		–		
5	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": localSapNames	{2 9 3 5 7 6}	SET OF ObjectInstance	–		o.11		–		–		–		–		
6	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c1		o.11		–		–		–		–		
7	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c1		o.11		–		–		–		–		
8	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	–		o.11		–		–		–		–		
9	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c1		o.11		–		–		–		–		
10	protocolErrors	{2 14 0 7 7}	INTEGER	–		o.11		–		–		–		–		
11	targetNSAP	{2 14 0 7 3}	SET OF other	c1		o.11		o.11		o.11		o.11		–		
12	undecodedNSDUs	{2 14 0 7 5}	INTEGER	–		o.11		–		–		–		–		
c1: if E.16/1a then o.11 else –																

E.4.1.3 The connectionless-mode transpoet protocol machine managed object

TABLE E.3/X.284

clmodeTPM Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": administrativeState	{2 9 3 2 7 31}	ENUMERATED	c2		o.11		o.11		–		–		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c2		o.11		–		–		–		–		
3	clChecksumOption	{2 14 0 7 9}	BOOLEAN	c2		o.11		o.11		–		–		o.11		
4	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": clProtocolMachineId	{2 9 3 5 7 2}	GraphicString	c2		o.11		–		–		–		–		
5	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c2		o.11		–		–		–		–		
6	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c2		o.11		–		–		–		–		
7	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	–		o.11		–		–		–		–		
8	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	–		o.11		–		–		–		–		
9	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	–		o.11		–		–		–		–		
10	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c2		o.11		–		–		–		–		

TABLE E.3/X.284 *(concluded)*

clmodeTPM Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
11	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": pdusReceivedCounter	{2 9 3 2 7 86}	INTEGER	–		o.11		–		–		–		–		
12	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": pdusSentCounter	{2 9 3 2 7 88}	INTEGER	–		o.11		–		–		–		–		
13	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": totalRemoteSAPs	{2 9 3 5 7 13}	INTEGER	–		o.11		–		–		–		–		
14	undeliverablePDUsCounter	{2 14 0 7 10}	INTEGER	–		o.11		–		–		–		–		
c2: if E.17/1a then o.11 else –																

E.4.1.4 The connection-oriented transport protocol machine managed object

TABLE E.4/X.284

comodeTPM Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": administrativeState	{2 9 3 2 7 31}	ENUMERATED	c3		o.11		o.11		–		–		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c3		o.11		–		–		–		–		
3	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": coProtocolMachineId	{2 9 3 5 7 3}	GraphicString	c3		o.11		–		–		–		–		
4	localErrorDisconnects	{2 14 0 7 18}	INTEGER	–		o.11		–		–		–		–		
5	localSuccessfulConnections	{2 14 0 7 14}	INTEGER	–		o.11		–		–		–		–		
6	localUnsuccessfulConnections	{2 14 0 7 16}	INTEGER	–		o.11		–		–		–		–		
7	maxConnections	{2 14 0 7 13}	INTEGER	c3		o.11		o.11		–		–		o.11		
8	maxOpenConnections	{2 14 0 7 21}	INTEGER	–		o.11		–		–		–		o.11		
9	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c3		o.11		–		–		–		–		
10	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c3		o.11		–		–		–		–		
11	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	–		o.11		–		–		–		–		
12	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	–		o.11		–		–		–		–		
13	openConnections	{2 14 0 7 12}	INTEGER	–		o.11		–		–		–		–		
14	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	–		o.11		–		–		–		–		

TABLE E.4/X.284 *(concluded)*

comodeTPM Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
15	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	o.11		o.11		–		–		–		–		
16	remoteErrorDisconnects	{2 14 0 7 19}	INTEGER	–		o.11		–		–		–		–		
17	remoteSuccessfulConnections	{2 14 0 7 15}	INTEGER	–		o.11		–		–		–		–		
18	remoteUnsuccessfulConnections	{2 14 0 7 17}	INTEGER	–		o.11		–		–		–		–		
19	unassociatedTPDUs	{2 14 0 7 20}	INTEGER	–		o.11		–		–		–		–		
c3: if E.18/1a then o.11 else –																

E.4.1.5 The TSAP managed object

TABLE E.5/X.284

tSAP Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c4		o.11		–		–		–		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c4		o.11		–		–		–		–		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c4		o.11		–		–		–		–		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c4		o.11		–		–		–		–		
5	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": sap1Address	{2 9 3 5 7 8}	INTEGER	–		o.11		–		–		–		–		
6	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": sapId	{2 9 3 5 7 10}	GraphicString	c4		o.11		–		–		–		–		
7	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": userEntityNames	{2 9 3 5 7 15}	SET OF ObjectInstance	–		o.11		–		–		–		–		
c4: if E.19/1a then o.11 else –																

E.4.1.6 The transport connection managed object

TABLE E.6/X.284

transportConnection Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
1	acknowledgeTime	{2 14 0 7 47}	SEQUENCE	–		o.11		–		–		–		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	–		o.11		–		–		–		–		
3	calledNSAPAddress	{2 14 0 7 58}	OCTET STRING	–		o.11		–		–		–		–		
4	calledTSelector	{2 14 0 7 56}	OCTET STRING	–		o.11		–		–		–		–		
5	callingNSAPAddress	{2 14 0 7 57}	OCTET STRING	–		o.11		–		–		–		–		
6	callingTSelector	{2 14 0 7 55}	OCTET STRING	–		o.11		–		–		–		–		
7	checksumNonuse	{2 14 0 7 43}	BOOLEAN	–		o.11		–		–		–		–		
8	connectionDirection	{2 14 0 7 60}	ENUMERATED	–		o.11		–		–		–		–		
9	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": connectionId	{2 9 3 5 7 1}	GraphicString	–		o.11		–		–		–		–		
10	explicitFlowControl	{2 14 0 7 45}	BOOLEAN	–		o.11		–		–		–		–		
11	extendedFormat	{2 14 0 7 41}	BOOLEAN	–		o.11		–		–		–		–		
12	inactivityTime	{2 14 0 7 46}	SEQUENCE	–		o.11		–		–		–		–		
13	localReference	{2 14 0 7 53}	INTEGER	–		o.11		–		–		–		–		
14	maxTPDUSize	{2 14 0 7 51}	INTEGER	–		o.11		–		–		–		–		
15	maxTransmissions	{2 14 0 7 52}	INTEGER	–		o.11		–		–		–		–		
16	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	–		o.11		–		–		–		–		
17	networkConnectionIDs	{2 14 0 7 61}	SET OF other	–		o.11		–		–		–		–		
18	networkExpeditedData	{2 14 0 7 42}	BOOLEAN	–		o.11		–		–		–		–		
19	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	–		o.11		–		–		–		–		
20	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	–		o.11		–		–		–		–		
21	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	–		o.11		–		–		–		–		

TABLE E.6/X.284 *(concluded)*

transportConnection Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
22	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	–		o.11		–		–		–		–		
23	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": pdusReceivedCounter	{2 9 3 2 7 86}	INTEGER	–		o.11		–		–		–		–		
24	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": pdusRetransmittedErrorCounter	{2 9 3 2 7 87}	INTEGER	–		o.11		–		–		–		–		
25	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": pdusSentCounter	{2 9 3 2 7 88}	INTEGER	–		o.11		–		–		–		–		
26	protocolClass	{2 14 0 7 40}	ENUMERATED	–		o.11		–		–		–		–		
27	protocolErrors	{2 14 0 7 7}	INTEGER	–		o.11		–		–		–		–		
28	reassignmentTime	{2 14 0 7 48}	SEQUENCE	–		o.11		–		–		–		–		
29	reassignmentsAfterFailure	{2 14 0 7 62}	INTEGER	–		o.11		–		–		–		–		
30	receiptConfirmation	{2 14 0 7 44}	BOOLEAN	–		o.11		–		–		–		–		
31	relatingNCCMONames	{2 14 0 7 66}	SET OF other	–		o.11		–		–		–		–		
32	remoteReference	{2 14 0 7 54}	INTEGER	–		o.11		–		–		–		–		
33	respondingNSAPAddress	{2 14 0 7 59}	OCTET STRING	–		o.11				–		–		–		
34	retransmissionTime	{2 14 0 7 49}	SEQUENCE	–		o.11		–		–		–		–		
35	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": supportedConnectionNames	{2 9 3 5 7 12}	SET OF ObjectInstance	–		o.11		–		–		–		–		
36	transportExpeditedService	{2 14 0 7 65}	BOOLEAN	–		o.11		–		–		–		–		
37	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": underlyingConnectionNames	{2 9 3 5 7 14}	SET OF ObjectInstance	–		o.11		–		–		–		–		
38	windowTimer	{2 14 0 7 50}	SEQUENCE	–		o.11		–		–		–		–		

E.4.1.7 The transport connection IVMO

TABLE E.7/X.284

transportConnectionIVMO Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	o.11		o.11		–		–		–		–		
2	checksumNonuse	{2 14 0 7 43}	BOOLEAN	o.11		o.11		o.11		–		–		o.11		
3	explicitFlowControl	{2 14 0 7 45}	BOOLEAN	o.11		o.11		o.11		–		–		o.11		
4	extendedFormat	{2 14 0 7 41}	BOOLEAN	o.11		o.11		o.11		–		–		o.11		
5	inactivityTime	{2 14 0 7 46}	SEQUENCE	o.11		o.11		o.11		–		–		o.11		
6	maxTPDUSize	{2 14 0 7 51}	INTEGER	o.11		o.11		o.11		–		–		o.11		
7	maxTransmissions	{2 14 0 7 52}	INTEGER	o.11		o.11		o.11		–		–		o.11		
8	maximumWindow	{2 14 0 7 36}	INTEGER	o.11		o.11		o.11		–		–		o.11		
9	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	o.11		o.11		–		–		–		–		
10	networkExpeditedData	{2 14 0 7 42}	BOOLEAN	o.11		o.11		o.11		–		–		o.11		
11	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	o.11		o.11		–		–		–		–		
12	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	o.11		o.11		–		–		–		–		
13	protocolClasses	{2 14 0 7 26}	SET OF ENUMERATED	o.11		o.11		o.11		–		–		o.11		
14	reassignmentTime	{2 14 0 7 48}	SEQUENCE	o.11		o.11		o.11		–		–		o.11		
15	receiptConfirmation	{2 14 0 7 44}	BOOLEAN	o.11		o.11		o.11		–		–		o.11		
16	retransmissionTime	{2 14 0 7 49}	SEQUENCE	o.11		o.11		o.11		–		–		o.11		
17	transportConnectionIVMOId	{2 14 0 7 25}	GraphicString	–		o.11		–		–		–		–		
18	transportExpeditedService	{2 14 0 7 65}	BOOLEAN	o.11		o.11		o.11		–		–		o.11		
19	windowTimer	{2 14 0 7 50}	SEQUENCE	o.11		o.11		o.11		–		–		o.11		

E.4.1.8 The communication information record managed object ["ISO/IEC 10165-5:1994"]

TABLE E.8/X.284

communicationInformationRecord Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	–		o.11		–		–		–		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	–		o.11		–		–		–		–		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	–		o.11		–		–		–		–		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	–		o.11		–		–		–		–		
5	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": logRecordId	{2 9 3 2 7 3}		–		o.11		–		–		–		–		
6	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": loggingTime	{2 9 3 2 7 59}		–		o.11		–		–		–		–		
7	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": managedObjectClass	{2 9 3 2 7 60}		–		o.11		–		–		–		–		
8	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": managedObjectInstance	{2 9 3 2 7 61}		–		o.11		–		–		–		–		
9	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": eventType	{2 9 3 2 7 14}		–		o.11		–		–		–		–		
10	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": eventTime	{2 9 3 2 7 13}		–		o.11		–		–		–		–		
11	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": notificationIdentifier	{2 9 3 2 7 16}		–		o.11		–		–		–		–		

TABLE E.8/X.284 *(concluded)*

communicationInformationRecord Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
12	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": correlatedNotifications	{2 9 3 2 7 12}		–		o.11		–		–		–		–		
13	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": additionalText	{2 9 3 2 7 7}		–		o.11		–		–		–		–		
14	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": additionalInformation	{2 9 3 2 7 6}		–		o.11		–		–		–		–		
15	informationType	{2 14 0 7 43}		–		o.11		–		–		–		–		
16	informationData	{2 14 0 7 45}		–		o.11		–		–		–		–		

E.4.1.9 The NCMS Protocol Machine managed object

TABLE E.9/X.284

ncmsPM Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": administrativeState	{2 9 3 2 7 31}	ENUMERATED	c5		o.11		o.11		–		–		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c5		o.11		–		–		–		–		
3	ncmsPMId	{2 14 0 7 67}	GraphicString	c5		o.11		–		–		–		–		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c5		o.11		–		–		–		–		
5	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": ObjectClass	{2 9 3 2 7 65}	ObjectClass	c5		o.11		–		–		–		–		
6	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	–		o.11		–		–		–		–		
7	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c5		o.11		–		–		–		–		
c5: if E.21/1a then o.11 else –																

E.4.1.10 The Network Connection Control managed object

TABLE E.10/X.284

ncc Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	o.11		o.11		–		–		–		–		
2	nccId	{2 14 0 7 68}	GraphicString	o.11		o.11		–		–		–		–		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	o.11		o.11		–		–		–		–		
4	ncc-COL	{2 14 0 7 70}	ENUMERATED	–		o.11		–		–		–		–		
5	nc-REC	{2 14 0 7 72}	ENUMERATED	–		o.11		–		–		–		–		
6	nc-REF	{2 14 0 7 73}	INTEGER	–		o.11		–		–		–		–		
7	nc-PREF	{2 14 0 7 71}	ENUMERATED	–		o.11		–		–		–		–		
8	nc-Right	{2 14 0 7 75}	ENUMERATED	–		o.11		–		–		–		–		
9	ncRecoveries	{2 14 0 7 74}	INTEGER	–		o.11		–		–		–		–		
10	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	o.11		o.11		–		–		–		–		
11	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	o.11		o.11		–		–		–		–		
12	ttrNCTime	{2 14 0 7 79}	SEQUENCE	–		o.11		–		–		–		–		
13	tpdNCTime	{2 14 0 7 78}	SEQUENCE	–		o.11		–		–		–		–		
14	tfrNCTime	{2 14 0 7 77}	SEQUENCE	–		o.11		–		–		–		–		
15	sourceOfAllocation	{2 14 0 7 76}	ENUMERATED	–		o.11		–		–		–		–		
16	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": underlyingConnectionNames	{2 9 3 5 7 14}	SET OF ObjectInstance	–		o.11		–		–		–		–		

E.4.1.11 The Network Connection Control Initial Value managed object

TABLE E.11/X.284

nccIVMO Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	o.11		o.11		–		–		–		–		
2	nccIVMOId	{2 14 0 7 69}	GraphicString	o.11		o.11		–		–		–		–		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	o.11		o.11		–		–		–		–		
4	ncc-COL	{2 14 0 7 70}	ENUMERATED	o.11		o.11		o.11		–		–		o.11		
5	nc-REC	{2 14 0 7 72}	ENUMERATED	o.11		o.11		o.11		–		–		o.11		
6	nc-PREF	{2 14 0 7 71}	ENUMERATED	o.11		o.11		o.11		–		–		o.11		
7	nc-Right	{2 14 0 7 75}	ENUMERATED	o.11		o.11		o.11		–		–		o.11		
8	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	o.11		o.11		–		–		–		–		
9	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	o.11		o.11		–		–		–		–		
10	ttrNCTime	{2 14 0 7 79}	SEQUENCE	o.11		o.11		o.11		–		–		o.11		
11	tpdNCTime	{2 14 0 7 78}	SEQUENCE	o.11		o.11		o.11		–		–		o.11		
12	tfrNCTime	{2 14 0 7 77}	SEQUENCE	o.11		o.11		o.11		–		–		o.11		

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 Recommendation shall import a copy of the following tables and complete them.

E.4.2.1 The transport entity managed object

TABLE E.12/X.284

transportEntity Attribute group support

				Get		Set to default		
Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Status	Support	Status	Support	Additional information
1	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": counters	{2 9 3 5 8 0}	checksumErrorsDetected protocolErrors undecodedNSDUs	o.11		–		

E.4.2.2 The connectionless-mode transport protocol machine managed object

TABLE E.13/X.284

clmodeTPM Attribute group support

				Get		Set to default		
Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Status	Support	Status	Support	Additional information
1	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": counters	{2 9 3 5 8 0}	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": pdusReceivedCounter "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": pdusSentCounter undeliverablePDUsCounter	o.11		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": state	{2 9 3 2 8 1}	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": administrativeState "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	o.11		–		

E.4.2.3 The connection-oriented transport protocol machine managed object

TABLE E.14/X.284

comodeTPM Attribute group support

				Get		Set to default		
Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Status	Support	Status	Support	Additional information
1	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": counters	{2 9 3 5 8 0}	localErrorDisconnects localSuccessfulConnections localUnsuccessfulConnections maxOpenConnections "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter openConnections remoteErrorDisconnects remoteSuccessfulConnections remoteUnsuccessfulConnections unassociatedTPDUs	o.11		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": state	{2 9 3 2 8 1}	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": administrativeState "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	o.11		–		

E.4.2.4 The transport connection managed object

TABLE E.15/X.284

transportConnection Attribute group support

				Get		Set to default		
Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Status	Support	Status	Support	Additional information
1	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": counters	{2 9 3 5 8 0}	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": pdusReceivedCounter "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": pdusRetransmittedErrorCounter "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": pdusSentCounter protocolErrors	o.11		–		

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 Recommendation shall import a copy of the following tables and complete them.

E.4.3.1 The transport entity managed object

TABLE E.16/X.284

Create and delete support

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

E.4.3.2 The connectionless-mode transport protocol machine managed object

TABLE E.17/X.284

Create and delete support

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

E.4.3.3 The connection-oriented transport protocol machine managed object

TABLE E.18/X.284

Create and delete support

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

E.4.3.4 The TSAP managed object

TABLE E.19/X.284

Create and delete support

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

E.4.3.5 The transport connection IVMO

TABLE E.20/X.284

Create and delete support

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	transportConnection IVMO	o.11		
1.1	Create with reference object	–	o.11		
2	Delete support	transportConnection IVMO	o.11		

E.4.3.6 The NCMS Protocol Machine managed object

TABLE E.21/X.284

Create and delete support

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

E.4.3.7 The Network Connection Control managed object

TABLE E.22/X.284

Create and delete support

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	ncc MO	o.11		
1.1	Create with reference object	–	o.11		
2	Delete support	ncc MO	o.11		

E.4.3.8 The Network Connection Control Initial Value managed object

TABLE E.23/X.284

Create and delete support

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	ncc IVMO MO	o.11		
1.1	Create with reference object	–	o.11		
2	Delete support	ncc IVMO MO	o.11		

E.4.4 Notifications

The specifier of a manager role implementation that claims to support the notifications specified in this Recommendation shall import a copy of Table E.24 and complete it.

TABLE E.24/X.284

Notification support

					Support										
Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Con-firmed	Non-con-firmed	Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": communicationsAlarm	{2 9 3 2 10 2}		c6				1.1	AlarmInfo		**Information Syntax** SEQUENCE	c6		
								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		
								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		

TABLE E.24/X.284 *(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
					Con-firmed	Non-con-firmed								
								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	–	Generalized Time	c:m		
								1.1.8	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	c:m		

TABLE E.24/X.284 *(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
					Con-firmed	Non-con-firmed								
								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		
								1.1.12.1	OBJECT IDENTIFIER	–	OBJECT IDENTIFIER	c:m		
								1.1.12.2	INTEGER	–	INTEGER	c:m		
								1.1.13	additionalText	{2 9 3 2 7 7}	GraphicString	c:m		
								1.1.14	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	c:m		
								1.1.14.1	identifier	–	OBJECT IDENTIFIER	c:m		
								1.1.14.2	significance	–	BOOLEAN	c:m		
								1.1.14.3	information	–	ANY DEFINED BY identifier	c:m		

TABLE E.24/X.284 *(continued)*

Notification support

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support: Con-firmed	Support: Non-con-firmed	Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectCreation	{2 9 3 2 10 6}		c7				2.1	ObjectInfo		**Information Syntax** SEQUENCE	c7		
								2.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	c:m		
								2.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	c:m		
								2.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	c:m		
								2.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	c:m		
								2.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								2.1.4.2	sourceObjectInst	–	ObjectInstance	c:m		
								2.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	c:m		
								2.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	c:m		
								2.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								2.1.6.2	significance	–	BOOLEAN	c:m		
								2.1.6.3	information	–	ANY DEFINED BY identifier	c:m		

TABLE E.24/X.284 *(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
					Con-firmed	Non-con-firmed								
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectDeletion	{2 9 3 2 10 7}		c8				3.1	ObjectInfo		**Information Syntax** SEQUENCE	c8		
								3.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	c:m		
								3.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	c:m		
								3.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	c:m		
								3.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	c:m		
								3.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								3.1.4.2	sourceObjectInst	–	ObjectInstance	c:m		
								3.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	c:m		
								3.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	c:m		
								3.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								3.1.6.2	significance	–	BOOLEAN	c:m		
								3.1.6.3	information	–	ANY DEFINED BY identifier	c:m		

TABLE E.24/X.284 *(continued)*

Notification support

					Support										
Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Con-firmed	Non-con-firmed	Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": stateChange	{2 9 3 2 10 14}		c9				4.1	StateChangeInfo		**Information Syntax** SEQUENCE	c9		
								4.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	c:m		
								4.1.2	attributeIdentifierList	{2 9 3 2 7 8}	SET OF AttributeId	c:m		
								4.1.3	stateChangeDefinition	{2 9 3 2 7 28}	SET OF SEQUENCE	c:m		
								4.1.3.1	attributeID	–	AttributeId	c:m		
								4.1.3.2	oldAttributeValue	–	ANY DEFINED BY attributeID	c:m		
								4.1.3.3	newAttributeValue	–	ANY DEFINED BY attributeID	c:m		
								4.1.4	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	c:m		
								4.1.5	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	c:m		
								4.1.5.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								4.1.5.2	sourceObjectInst	–	ObjectInstance	c:m		
								4.1.6	additionalText	{2 9 3 2 7 7}	GraphicString	c:m		
								4.1.7	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	c:m		
								4.1.7.1	identifier	–	OBJECT IDENTIFIER	c:m		
								4.1.7.2	significance	–	BOOLEAN	c:m		
								4.1.7.3	information	–	ANY DEFINED BY identifier	c:m		

TABLE E.24/X.284 *(concluded)*

Notification support

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support: Con-firmed	Support: Non-con-firmed	Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
5	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsInformation	{2 9 3 5 10 0}		c10				5.1	CommunicationsInformation		**Information Syntax** SEQUENCE	c10		
								5.1.1	informationType	{2 9 3 5 7 5}	OBJECT IDENTIFIER	c:m		
								5.1.2	informationData	{2 9 3 5 7 4}	SET OF SEQUENCE	c:m		
								5.1.2.1	identifier	–	OBJECT IDENTIFIER	c:m		
								5.1.2.2	significance	–	BOOLEAN	c:m		
								5.1.2.3	information	–	ANY DEFINED BY identifier	c:m		

c6: if D.3/4a or D.3/8a then m else –
c7: if D.3/2a or D.3/5a or D.3/12a or D.3/17a or D.3/20a or D.3/23a or D.3/28a then m else –
c8: if D.3/3a or D.3/6a or D.3/13a or D.3/18a or D.3/21a or D.3/24a or D.3/29a then m else –
c9: if D.3/7a or D.3/14a or D.3/25a then m else –
c10: if D.3/11 or D.3/19 or D.3/22a then m else –

E.4.5 Actions

The specifier of a manager role implementation that claims to support the actions specified in this Recommendation shall import a copy of Table E.25 and complete it.

TABLE E.25/X.284

Action support

Index	Action type template label	Value of object identifier for action type	Constraints and values	Status	Support	Additional information	Subindex	Action field name label	Constraints and values	Status	Support	Additional information
1	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": activate	{2 9 3 5 9 0}		c11			1.1	ActionInfo	**Information Syntax** SET OF SEQUENCE	c11		
							1.1.1	identifier	OBJECT IDENTIFIER	c:m		
							1.1.2	significance	BOOLEAN	c:o		
							1.1.3	information	ANY DEFINED BY identifier	c:m		
							1.2	ActionReply	**Reply Syntax** SET OF SEQUENCE	c:m		
							1.2.1	identifier	OBJECT IDENTIFIER	c:m		
							1.2.2	significance	BOOLEAN	c:m		
							1.2.3	information	ANY DEFINED BY identifier	c:m		
2	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": deactivate	{2 9 3 5 9 1}		c12			2.1	ActionInfo	**Information Syntax** SET OF SEQUENCE	c12		
							2.1.1	identifier	OBJECT IDENTIFIER	c:m		
							2.1.2	significance	BOOLEAN	c:o		

TABLE E.25/X.284 *(concluded)*

Action support

Index	Action type template label	Value of object identifier for action type	Constraints and values	Status	Support	Additional information	Subindex	Action field name label	Constraints and values	Status	Support	Additional information
							2.1.3	information	ANY DEFINED BY identifier	c:m		
							2.2	ActionReply	**Reply Syntax** SET OF SEQUENCE	c:m		
							2.2.1	identifier	OBJECT IDENTIFIER	c:m		
							2.2.2	significance	BOOLEAN	c:m		
							2.2.3	information	ANY DEFINED BY identifier	c:m		
c11: if D.3/9a or D.3/15a or D.3/26a then m else – c12: if D.3/10a or D.3/16a or D.3/27a then m else –												

E.4.6 Parameters

The specifier of a manager role implementation that claims to support the parameters specified in this Recommendation shall import a copy of Table E.26 and complete it.

TABLE E.26/X.284

Parameter support

Index	Parameter template label	Value of object identifier for parameter	Constraints and values	Status	Support	Additional information
1	tEProtocolErrorPDUHeader	{2 14 0 5 1}	EVENT-INFO communicationsAlarm	c13		
2	tEProtocolErrorReasonCode	{2 14 0 5 3}	EVENT-INFO communicationsAlarm	c13		
3	tEProtocolErrorSourceAddress	{2 14 0 5 2}	EVENT-INFO communicationsAlarm	c13		
4	clPMPDUHeader	{2 14 0 5 4}	EVENT-INFO communicationsAlarm	c14		
5	clPMSourceAddress	{2 14 0 5 5}	EVENT-INFO communicationsAlarm	c14		
6	calledNSAPAddress-PAR	(Not registered)	EVENT-INFO communicationsInformation	c15		
7	calledTSelector-PAR	(Not registered)	EVENT-INFO communicationsInformation	c15		
8	callingNSAPAddress-PAR	(Not registered)	EVENT-INFO communicationsInformation	c15		
9	callingTSelector-PAR	(Not registered)	EVENT-INFO communicationsInformation	c15		
10	networkConnectionIDs-PAR	(Not registered)	EVENT-INFO communicationsInformation	c15		
11	rejectionCause	{2 14 0 5 7}	EVENT-INFO communicationsInformation	c15		
12	calledNSAPAddress-PAR	(Not registered)	EVENT-INFO communicationsInformation	c16		
13	calledTSelector-PAR	(Not registered)	EVENT-INFO communicationsInformation	c16		
14	callingNSAPAddress-PAR	(Not registered)	EVENT-INFO communicationsInformation	c16		
15	callingTSelector-PAR	(Not registered)	EVENT-INFO communicationsInformation	c16		
16	networkConnectionIDs-PAR	(Not registered)	EVENT-INFO communicationsInformation	c16		
17	connectionDirection-PAR	(Not registered)	EVENT-INFO communicationsInformation	c16		
18	maxTPDUSize-PAR	(Not registered)	EVENT-INFO communicationsInformation	c16		
19	protocolClass-PAR	(Not registered)	EVENT-INFO communicationsInformation	c16		
20	respondingNSAPAddress-PAR	(Not registered)	EVENT-INFO communicationsInformation	c16		
21	transportConnectionName	(Not registered)	EVENT-INFO communicationsInformation	c16		
22	calledNSAPAddress-PAR	(Not registered)	EVENT-INFO objectCreation	c17		
23	calledTSelector-PAR	(Not registered)	EVENT-INFO objectCreation	c17		
24	callingNSAPAddress-PAR	(Not registered)	EVENT-INFO objectCreation	c17		
25	callingTSelector-PAR	(Not registered)	EVENT-INFO objectCreation	c17		
26	connectionDirection-PAR	(Not registered)	EVENT-INFO objectCreation	c17		
27	maxTPDUSize-PAR	(Not registered)	EVENT-INFO objectCreation	c17		

TABLE E.26/X.284 *(concluded)*

Parameter support

Index	Parameter template label	Value of object identifier for parameter	Constraints and values	Status	Support	Additional information
28	networkConnectionIDs-PAR	(Not registered)	EVENT-INFO objectCreation	c17		
29	protocolClass-PAR	(Not registered)	EVENT-INFO objectCreation	c17		
30	respondingNSAPAddress-PAR	(Not registered)	EVENT-INFO objectCreation	c17		
31	transportConnectionName	(Not registered)	EVENT-INFO objectCreation	c18		
32	calledNSAPAddress-PAR	(Not registered)	EVENT-INFO objectDeletion	c18		
33	calledTSelector-PAR	(Not registered)	EVENT-INFO objectDeletion	c18		
34	callingNSAPAddress-PAR	(Not registered)	EVENT-INFO objectDeletion	c18		
35	callingTSelector-PAR	(Not registered)	EVENT-INFO objectDeletion	c18		
36	connectionDirection-PAR	(Not registered)	EVENT-INFO objectDeletion	c18		
37	maxTPDUSize-PAR	(Not registered)	EVENT-INFO objectDeletion	c18		
38	networkConnectionIDs-PAR	(Not registered)	EVENT-INFO objectDeletion	c18		
39	objectDeletionCause	{2 14 0 5 6}	EVENT-INFO objectDeletion	c18		
40	protocolClass-PAR	(Not registered)	EVENT-INFO objectDeletion	c18		
41	respondingNSAPAddress-PAR	(Not registered)	EVENT-INFO objectDeletion	c18		
42	transportConnectionName	(Not registered)	EVENT-INFO objectDeletion	c18		
43	ncmsPMPDUHeader	(Not registered)	EVENT-INFO communicationsInformation	c19		
44	ncmsPMSourceAddress	(Not registered)	EVENT-INFO communicationsInformation	c19		

c13: if D.3/4a then m else –
c14: if D.3/8a then m else –
c15: if D.3/11a then m else –
c16: if D.3/19a then m else –
c17: if D.3/20a then m else –
c18: if D.3/21a then m else –
c19: if D.3/22a then m else –

Annexe F[4)]

Formulaire MOCS

F.1 Introduction

The purpose of this MOCS proforma is to provide a mechanism for a supplier of an implementation of a Recommendation which claims conformance to a managed object class, to provide conformance information in a standard form.

F.1.1 Instructions for completing the MOCS proforma to produce a MOCS[5)]

The MOCS proforma contained in this annex is comprised of information in tabular form, in accordance with ITU-T Rec. X.724 | ISO/IEC 10165-6. The supplier of the implementation shall state which items are supported in the tables below and if necessary provide additional information.

F.1.2 Symbols, abbreviations and terms

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

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

F.2 The transport subsystem managed object

F.2.1 Statement of conformance to the managed object class

TABLE F.1/X.284

transportSubsystem Managed object class support

Index	Managed object class template label	Value of object identifier for class	Support of all mandatory features? (Y/N)	Is the actual class the same as the managed object class to which conformance is claimed? (Y/N)
1	transportSubsystem	{2 14 0 3 1}		

If the answer to the actual class question in Table F.1 is no, the supplier of the implementation shall fill in the actual class support Table F.2.

TABLE F.2/X.284

transportSubsystem Actual class support

Index	Managed object class template for actual class	Value of object identifier for managed object class definition of actual class	Additional information

4) **Droits de reproduction du formulaire MOCS**
Les utilisateurs de la présente Recommandation sont autorisés à reproduire le formulaire MOCS de la présente annexe pour utiliser celui-ci conformément à son objet. Ils sont également autorisés à publier le formulaire une fois celui-ci complété.

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

F.2.2 Packages

The supplier of the implementation shall state whether or not the packages specified by this managed object of this class are supported, in Table F.3.

TABLE F.3/X.284

transportSubsystem Package support

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c1		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packagesPackage	{2 9 3 2 4 16}	"any registered package, other than this package has been instantiated"	c2		
3	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": subsystemP1		Mandatory	m		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": topPackage		Mandatory	m		
5	transportSubsystem-P		Mandatory	m		
c1: if F.1/1b then – else m c2: if F.3/1a then m else –						

F.2.3 Attributes

The supplier of the implementation shall state whether or not the attributes specified by all of the packages instantiated in a managed object of this class are supported, in the Support and Additional information columns of Table F.4. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

TABLE F.4/X.284

transportSubsystem Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c3		c4		–		–		–		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	x		m		x		–		–		x		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	x		m		x		–		–		x		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c5		c6		c5		c5		c5		c5		
5	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": subsystemId	{2 9 3 5 7 11}	GraphicString	x		m		x		–		–		–		
c3: if F.3/1a then x else – c4: if F.3/1a then m else – c5: if F.3/2a then x else – c6: if F.3/2a then m else –																

F.3 The transport entity managed object

F.3.1 Statement of conformance to the managed object class

TABLE F.5/X.284

transportEntity Managed object class support

Index	Managed object class template label	Value of object identifier for class	Support of all mandatory features? (Y/N)	Is the actual class the same as the managed object class to which conformance is claimed? (Y/N)
1	transportEntity	{2 14 0 3 2}		

If the answer to the actual class question in Table F.5 is no, the supplier of the implementation shall fill in the actual class support Table F.6.

TABLE F.6/X.284

transportEntity Actual class support

Index	Managed object class template for actual class	Value of object identifier for managed object class definition of actual class	Additional information

F.3.2 Packages

The supplier of the implementation shall state whether or not the packages specified by this managed object of this class are supported, in Table F.7.

TABLE F.7/X.284

transportEntity Package support

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c7		
2	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsEntityP1		Mandatory	m		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packagesPackage	{2 9 3 2 4 16}	"any registered package, other than this package has been instantiated"	c8		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": topPackage		Mandatory	m		
5	transportEntity-P		Mandatory	m		
c7: if F.5/1b then – else m c8: if F.7/1a then m else –						

F.3.3 Attributes

The supplier of the implementation shall state whether or not the attributes specified by all of the packages instantiated in a managed object of this class are supported, in the Support and Additional information columns of Table F.8. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

TABLE F.8/X.284

transportEntity Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
1	actualNSAP	{2 14 0 7 4}	SET OF other	c9		m		c10		c10		c10		c10		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c11		c12		–		–		–		–		
3	checksumErrorsDetected	{2 14 0 7 6}	INTEGER	c9		m		c10		–		–		c10		
4	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsEntityId	{2 9 3 5 7 0}	GraphicString	c13		m		x		–		–		x		
5	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": localSapNames	{2 9 3 5 7 6}	SET OF ObjectInstance	c9		m		c10		c10		c10		c10		
6	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c13		m		x		–		–		x		
7	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c14		m		x		–		–		x		
8	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	x		m		x		–		–		x		
9	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c15		c16		c17		c17		c17		c17		
10	protocolErrors	{2 14 0 7 7}	INTEGER	c9		m		c10		–		–		c10		
11	targetNSAP	{2 14 0 7 3}	SET OF other	c14		m		m		m		m		c10		
12	undecodedNSDUs	{2 14 0 7 5}	INTEGER	c9		m		c10		–		–		c10		

c9: if F.5/1b or G.1/3a or G.1/4a then x else –
c10: if F.5/1b then x else –
c11: if F.7/1a then (if G.1/4a then o else x) else –
c12: if F.7/1a then m else –
c13: if G.1/4a then o else x
c14: if G.1/4a then m else x
c15: if F.7/3a then (if G.1/4a then o else x) else –
c16: if F.7/3a then m else –
c17: if F.7/3a then x else –

F.3.4 Attribute group

TABLE F.9/X.284

transportEntity Attribute group support

				Get		Set to default		
Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Status	Support	Status	Support	Additional information
1	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": counters	{2 9 3 5 8 0}	checksumErrorsDetected protocolErrors undecodedNSDUs	m		c10		

F.3.5 Notifications

TABLE F.10/X.284

transportEntity Notification support

					Support										
Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Con-firmed	Non-con-firmed	Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": communicationsAlarm	{2 9 3 2 10 2}		m			tEProtocolErrorPDUHeader tEProtocolErrorReasonCode tEProtocolErrorSourceAddress	1.1	AlarmInfo		**Information Syntax** SEQUENCE	m		
								1.1.1	probableCause	{2 9 3 2 7 18}	CHOICE	m		
								1.1.1.1	globalValue	–	OBJECT IDENTIFIER	o.1		
								1.1.1.2	localValue	–	INTEGER	o.1		
								1.1.2	specificProblems	{2 9 3 2 7 27}	SET OF CHOICE	o		
								1.1.2.1	OBJECT IDENTIFIER	–	OBJECT IDENTIFIER	c:o.2		
								1.1.2.2	INTEGER	–	INTEGER	c:o.2		
								1.1.3	perceivedSeverity	{2 9 3 2 7 17}	ENUMERATED	m		
								1.1.4	backedUpStatus	{2 9 3 2 7 11}	BOOLEAN	o		
								1.1.5	backUpObject	{2 9 3 2 7 40}	ObjectInstance	o		
								1.1.6	trendIndication	{2 9 3 2 7 30}	ENUMERATED	o		
								1.1.7	thresholdInfo	{2 9 3 2 7 29}	SEQUENCE	o		
								1.1.7.1	triggeredThreshold	–	AttributeId	c:m		
								1.1.7.2	observedValue		CHOICE	c:m		
								1.1.7.2.1	integer	–	INTEGER	c:o.3		
								1.1.7.2.2	real	–	REAL	c:o.3		
								1.1.7.3	thresholdLevel	–	CHOICE	c:o		
								1.1.7.3.1	up	–	SEQUENCE	c:o.4		

TABLE F.10/X.284 *(continued)*

transportEntity Notification support

					Support										
Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Con-firmed	Non-con-firmed	Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
								1.1.7.3.1.1	high	–	CHOICE	c:m		
								1.1.7.3.1.1.1	integer	–	INTEGER	c:o.5		
								1.1.7.3.1.1.2	real	–	REAL	c:o.5		
								1.1.7.3.1.2	low	–	CHOICE	c:o		
								1.1.7.3.1.2.1	integer	–	INTEGER	c:o.6		
								1.1.7.3.1.2.2	real	–	REAL	c:o.6		
								1.1.7.3.2	down	–	SEQUENCE	c:o.4		
								1.1.7.3.2.1	high	–	CHOICE	c:m		
								1.1.7.3.2.1.1	integer	–	INTEGER	c:o.7		
								1.1.7.3.2.1.2	real	–	REAL	c:o.7		
								1.1.7.3.2.2	low	–	CHOICE	c:m		
								1.1.7.3.2.2.1	integer	–	INTEGER	c:o.8		
								1.1.7.3.2.2.2	real	–	REAL	c:o.8		
								1.1.7.4	armTime	–	GeneralizedTime	c:o		
								1.1.8	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								1.1.9	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								1.1.9.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								1.1.9.2	sourceObjectInst	–	ObjectInstance	c:o		
								1.1.10	stateChangeDefinition	{2 9 3 2 7 28}	SET OF SEQUENCE	o		
								1.1.10.1	attributeID	–	AttributeId	c:m		
								1.1.10.2	oldAttributeValue	–	ANY DEFINED BY attributeID	c:o		
								1.1.10.3	newAttributeValue	–	ANY DEFINED BY attributeID	c:m		
								1.1.11	monitoredAttributes	{2 9 3 2 7 15}	SET OF Attribute	o		
								1.1.12	proposedRepairActions	{2 9 3 2 7 19}	SET OF CHOICE	o		

TABLE F.10/X.284 *(continued)*

transportEntity 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
					Con-firmed	Non-con-firmed								
								1.1.12.1	OBJECT IDENTIFIER	–	OBJECT IDENTIFIER	c:o.9		
								1.1.12.2	INTEGER	–	INTEGER	c:o.9		
								1.1.13	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								1.1.14	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								1.1.14.1	identifier	–	OBJECT IDENTIFIER	c:m		
								1.1.14.2	significance	–	BOOLEAN	c:o		
								1.1.14.3	information	–	ANY DEFINED BY identifier	c:m		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectCreation	{2 9 3 2 10 6}		m				2.1	ObjectInfo		**Information Syntax** SEQUENCE	m		
								2.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								2.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								2.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								2.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								2.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								2.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								2.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								2.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								2.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								2.1.6.2	significance	–	BOOLEAN	c:o		
								2.1.6.3	information	–	ANY DEFINED BY identifier	c:m		

TABLE F.10/X.284 *(concluded)*

transportEntity 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
					Con-firmed	Non-con-firmed								
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectDeletion	{2 9 3 2 10 7}		m				3.1	ObjectInfo		**Information Syntax** SEQUENCE	m		
								3.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								3.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								3.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								3.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								3.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								3.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								3.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								3.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								3.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								3.1.6.2	significance	–	BOOLEAN	c:o		
								3.1.6.3	information	–	ANY DEFINED BY identifier	c:m		

F.3.6 Parameters

TABLE F.11/X.284

transportEntity Parameter support

Index	Parameter template label	Value of object identifier for parameter	Constraints and values	Status	Support	Additional information
1	tEProtocolErrorPDUHeader	{2 14 0 5 1}	EVENT-INFO communicationsAlarm	m		
2	tEProtocolErrorReasonCode	{2 14 0 5 3}	EVENT-INFO communicationsAlarm	m		
3	tEProtocolErrorSourceAddress	{2 14 0 5 2}	EVENT-INFO communicationsAlarm	m		

F.4 The connectionless-mode transport protocol machine managed object

F.4.1 Statement of conformance to the managed object class

TABLE F.12/X.284

clmodeTPM Managed object class support

Index	Managed object class template label	Value of object identifier for class	Support of all mandatory features? (Y/N)	Is the actual class the same as the managed object class to which conformance is claimed? (Y/N)
1	clmodeTPM	{2 14 0 3 3}		

If the answer to the actual class question in Table F.12 is no, the supplier of the implementation shall fill in the actual class support Table F.13.

TABLE F.13/X.284

clmodeTPM Actual class support

Index	Managed object class template for actual class	Value of object identifier for managed object class definition of actual class	Additional information

F.4.2 Packages

The supplier of the implementation shall state whether or not the packages specified by this managed object of this class are supported, in Table F.14.

TABLE F.14/X.284

clmodeTPM Package support

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c18		
2	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": clProtocolMachineP1		Mandatory	m		
3	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": clProtocolMachineP2	{2 9 3 5 4 1}	"there is a requirement to keep statistics concerning remote connectionless protocol machines that this protocol machine communicates with"	o		
4	clmodeTPM-P		Mandatory	m		
5	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packagesPackage	{2 9 3 2 4 16}	"any registered package, other than this package has been instantiated"	c19		
6	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": topPackage		Mandatory	m		
c18: if F.12/1b then – else m c19: if F.14/1a or F.14/3a then m else –						

F.4.3 Attributes

The supplier of the implementation shall state whether or not the attributes specified by all of the packages instantiated in a managed object of this class are supported, in the Support and Additional information columns of Table F.15. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

TABLE F.15/X.284

clmodeTPM Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": administrativeState	{2 9 3 2 7 31}	ENUMERATED	c20		m		m		–		–		c21		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c22		c23		–		–		–		–		
3	clChecksumOption	{2 14 0 7 9}	BOOLEAN	c20		m		m		–		–		m		
4	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": clProtocolMachineId	{2 9 3 5 7 2}	GraphicString	c24		m		x		–		–		x		
5	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c24		m		x		–		–		x		
6	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c20		m		x		–		–		x		
7	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	c25		m		c21		–		–		c21		
8	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	c25		m		c21		–		–		c21		
9	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	x		m		x		–		–		x		
10	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c26		c27		c28		c28		c28		c28		

TABLE F.15/X.284 *(concluded)*

clmodeTPM Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
11	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": pdusReceivedCounter	{2 9 3 2 7 86}	INTEGER	c25		m		c21		–		–		c21		
12	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": pdusSentCounter	{2 9 3 2 7 88}	INTEGER	c25		m		c21		–		–		c21		
13	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": totalRemoteSAPs	{2 9 3 5 7 13}	INTEGER	c29		c30		c21		–		–		c21		
14	undeliverablePDUsCounter	{2 14 0 7 10}	INTEGER	c25		m		c21		–		–		c21		

c20: if G.1/7a then m else x
c21: if F.12/1b then x else –
c22: if F.14/1a then (if G.1/7a then o else x) else –
c23: if F.14/1a then m else –
c24: if G.1/7a then o else x
c25: if F.12/1b or G.1/6a or G.1/8a then x else –
c26: if F.14/5a then (if G.1/7a then o else x) else –
c27: if F.14/5a then m else –
c28: if F.14/5a then x else –
c29: if F.14/3a and (F.12/1b or G.1/6a or G.1/8a) then x else –
c30: if F.14/3a then m else –

F.4.4 Attribute groups

TABLE F.16/X.284

clmodeTPM Attribute group support

				Get		Set to default		
Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Status	Support	Status	Support	Additional information
1	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": counters	{2 9 3 5 8 0}	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": pdusReceivedCounter "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": pdusSentCounter undeliverablePDUsCounter	m		c21		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": state	{2 9 3 2 8 1}	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": administrativeState "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	m		c21		

F.4.5 Notifications

TABLE F.17/X.284

clmodeTPM 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
					Con-firmed	Non-con-firmed								
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": communicationsAlarm	{2 9 3 2 10 2}		m			clPMPDUHeader clPMSourceAddress	1.1	AlarmInfo		**Information Syntax** SEQUENCE	m		
								1.1.1	probableCause	{2 9 3 2 7 18}	CHOICE	m		
								1.1.1.1	globalValue	–	OBJECT IDENTIFIER	o.1		
								1.1.1.2	localValue	–	INTEGER	o.1		
								1.1.2	specificProblems	{2 9 3 2 7 27}	SET OF CHOICE	o		
								1.1.2.1	OBJECT IDENTIFIER	–	OBJECT IDENTIFIER	c:o.2		
								1.1.2.2	INTEGER	–	INTEGER	c:o.2		
								1.1.3	perceivedSeverity	{2 9 3 2 7 17}	ENUMERATED	m		
								1.1.4	backedUpStatus	{2 9 3 2 7 11}	BOOLEAN	o		
								1.1.5	backUpObject	{2 9 3 2 7 40}	ObjectInstance	o		
								1.1.6	trendIndication	{2 9 3 2 7 30}	ENUMERATED	o		
								1.1.7	thresholdInfo	{2 9 3 2 7 29}	SEQUENCE	o		
								1.1.7.1	triggeredThreshold	–	AttributeId	c:m		
								1.1.7.2	observedValue	–	CHOICE	c:m		
								1.1.7.2.1	integer	–	INTEGER	c:o.3		
								1.1.7.2.2	real	–	REAL	c:o.3		
								1.1.7.3	thresholdLevel	–	CHOICE	c:o		
								1.1.7.3.1	up	–	SEQUENCE	c:o.4		
								1.1.7.3.1.1	high	–	CHOICE	c:m		
								1.1.7.3.1.1.1	integer	–	INTEGER	c:o.5		
								1.1.7.3.1.1.2	real	–	REAL	c:o.5		

TABLE F.17/X.284 *(continued)*

clmodeTPM 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
					Con-firmed	Non-con-firmed								
								1.1.7.3.1.2	low	–	CHOICE	c:o		
								1.1.7.3.1.2.1	integer	–	INTEGER	c:o.6		
								1.1.7.3.1.2.2	real	–	REAL	c:o.6		
								1.1.7.3.2	down	–	SEQUENCE	c:o.4		
								1.1.7.3.2.1	high	–	CHOICE	c:m		
								1.1.7.3.2.1.1	integer	–	INTEGER	c:o.7		
								1.1.7.3.2.1.2	real	–	REAL	c:o.7		
								1.1.7.3.2.2	low	–	CHOICE	c:m		
								1.1.7.3.2.2.1	integer	–	INTEGER	c:o.8		
								1.1.7.3.2.2.2	real	–	REAL	c:o.8		
								1.1.7.4	armTime	–	GeneralizedTime	c:o		
								1.1.8	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								1.1.9	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								1.1.9.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								1.1.9.2	sourceObjectInst	–	ObjectInstance	c:o		
								1.1.10	stateChangeDefinition	{2 9 3 2 7 28}	SET OF SEQUENCE	o		
								1.1.10.1	attributeID	–	AttributeId	c:m		
								1.1.10.2	oldAttributeValue	–	ANY DEFINED BY attributeID	c:o		
								1.1.10.3	newAttributeValue	–	ANY DEFINED BY attributeID	c:m		
								1.1.11	monitoredAttributes	{2 9 3 2 7 15}	SET OF Attribute	o		
								1.1.12	proposedRepairActions	{2 9 3 2 7 19}	SET OF CHOICE	o		

TABLE F.17/X.284 *(continued)*

clmodeTPM 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
					Con-firmed	Non-con-firmed								
								1.1.12.1	OBJECT IDENTIFIER	–	OBJECT IDENTIFIER	c:o.9		
								1.1.12.2	INTEGER	–	INTEGER	c:o.9		
								1.1.13	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								1.1.14	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								1.1.14.1	identifier	–	OBJECT IDENTIFIER	c:m		
								1.1.14.2	significance	–	BOOLEAN	c:o		
								1.1.14.3	information	–	ANY DEFINED BY identifier	c:m		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectCreation	{2 9 3 2 10 6}		m				2.1	ObjectInfo		**Information Syntax** SEQUENCE	m		
								2.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								2.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								2.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								2.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								2.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								2.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								2.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								2.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								2.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								2.1.6.2	significance	–	BOOLEAN	c:o		
								2.1.6.3	information	–	ANY DEFINED BY identifier	c:m		

TABLE F.17/X.284 *(continued)*

clmodeTPM 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
					Con-firmed	Non-con-firmed								
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectDeletion	{2 9 3 2 10 7}		m				3.1	ObjectInfo		**Information Syntax** SEQUENCE	m		
								3.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								3.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								3.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								3.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								3.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								3.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								3.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								3.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								3.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								3.1.6.2	significance	–	BOOLEAN	c:o		
								3.1.6.3	information	–	ANY DEFINED BY identifier	c:m		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": stateChange	{2 9 3 2 10 14}		m				4.1	StateChangeInfo		**Information Syntax** SEQUENCE	m		
								4.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								4.1.2	attributeIdentifierList	{2 9 3 2 7 8}	SET OF AttributeId	o		
								4.1.3	stateChangeDefinition	{2 9 3 2 7 28}	SET OF SEQUENCE	m		

TABLE F.17/X.284 *(concluded)*

clmodeTPM 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
					Con-firmed	Non-con-firmed								
								4.1.3.1	attributeID	–	AttributeId	m		
								4.1.3.2	oldAttributeValue	–	ANY DEFINED BY attributeID	o		
								4.1.3.3	newAttributeValue	–	ANY DEFINED BY attributeID	m		
								4.1.4	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								4.1.5	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								4.1.5.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								4.1.5.2	sourceObjectInst	–	ObjectInstance	c:o		
								4.1.6	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								4.1.7	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								4.1.7.1	identifier	–	OBJECT IDENTIFIER	c:m		
								4.1.7.2	significance	–	BOOLEAN	c:o		
								4.1.7.3	information	–	ANY DEFINED BY identifier	c:m		

F.4.6 Actions

TABLE F.18/X.284

clmodeTPM Action support

Index	Action type template label	Value of object identifier for action type	Constraints and values	Status	Support	Additional information	Subindex	Action field name label	Constraints and values	Status	Support	Additional information
1	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": activate	{2 9 3 5 9 0}		m			1.1	ActionInfo	**Information Syntax** SET OF SEQUENCE	m		
							1.1.1	identifier	OBJECT IDENTIFIER	m		
							1.1.2	significance	BOOLEAN	o		
							1.1.3	information	ANY DEFINED BY identifier	m		
							1.2	ActionReply	**Reply Syntax** SET OF SEQUENCE	m		
							1.2.1	identifier	OBJECT IDENTIFIER	m		
							1.2.2	significance	BOOLEAN	o		
							1.2.3	information	ANY DEFINED BY identifier	m		
2	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": deactivate	{2 9 3 5 9 1}		m			2.1	ActionInfo	**Information Syntax** SET OF SEQUENCE	m		
							2.1.1	identifier	OBJECT IDENTIFIER	m		
							2.1.2	significance	BOOLEAN	o		
							2.1.3	information	ANY DEFINED BY identifier	m		
							2.2	ActionReply	**Reply Syntax** SET OF SEQUENCE	m		
							2.2.1	identifier	OBJECT IDENTIFIER	m		
							2.2.2	significance	BOOLEAN	o		
							2.2.3	information	ANY DEFINED BY identifier	m		

F.4.7 Parameters

TABLE F.19/X.284

clmodeTPM Parameter support

Index	Package template label	Value of object identifier for parameter	Constraints and values	Status	Support	Additional information
1	clPMPDUHeader	{2 14 0 5 4}	EVENT-INFO communicationsAlarm	m		
2	clPMSourceAddress	{2 14 0 5 5}	EVENT-INFO communicationsAlarm	m		

F.5 The connection-oriented transport protocol machine managed object

F.5.1 Statement of conformance to the managed object class

TABLE F.20/X.284

comodeTPM Managed object class support

Index	Managed object class template label	Value of object identifier for class	Support of all mandatory features? (Y/N)	Is the actual class the same as the managed object class to which conformance is claimed? (Y/N)
1	comodeTPM	{2 14 0 3 4}		

If the answer to the actual class question in Table F.20 is no, the supplier of the implementation shall fill in the actual class support Table F.21.

TABLE F.21/X.284

comodeTPM Actual class support

Index	Managed object class template for actual class	Value of object identifier for managed object class definition of actual class	Additional information

F.5.2 Packages

The supplier of the implementation shall state whether or not the packages specified by this managed object of this class are supported, in Table F.22.

TABLE F.22/X.284

comodeTPM Package support

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c31		
2	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": coProtocolMachineP1		Mandatory	m		
3	comodeTPM-P		Mandatory	m		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packagesPackage	{2 9 3 2 4 16}	"any registered package, other than this package has been instantiated"	c32		
5	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": topPackage		Mandatory	m		
c31: if F.20/1b then – else m c32: if F.22/1a then m else –						

F.5.3 Attributes

The supplier of the implementation shall state whether or not the attributes specified by all of the packages instantiated in a managed object of this class are supported, in the Support and Additional information columns of Table F.23. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

TABLE F.23/X.284

comodeTPM Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": administrativeState	{2 9 3 2 7 31}	ENUMERATED	c33		m		m		–		–		c34		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c35		c36		–		–		–		–		
3	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": coProtocolMachineId	{2 9 3 5 7 3}	GraphicString	c37		m		x		–		–		x		
4	localErrorDisconnects	{2 14 0 7 18}	INTEGER	c38		m		c34		–		–		c34		
5	localSuccessfulConnections	{2 14 0 7 14}	INTEGER	c38		m		c34		–		–		c34		
6	localUnsuccessfulConnections	{2 14 0 7 16}	INTEGER	c38		m		c34		–		–		c34		
7	maxConnections	{2 14 0 7 13}	INTEGER	c33		m		m		–		–		m		
8	maxOpenConnections	{2 14 0 7 21}	INTEGER	c33		m		c34		–		–		m		
9	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c37		m		x		–		–		x		
10	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c33		m		x		–		–		x		
11	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	c38		m		c34		–		–		c34		
12	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	c38		m		c34		–		–		c34		
13	openConnections	{2 14 0 7 12}	INTEGER	c38		m		c34		–		–		c34		
14	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	x		m		x		–		–		x		

TABLE F.23/X.284 *(concluded)*

comodeTPM Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
15	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c39		c40		c41		c41		c41		c41		
16	remoteErrorDisconnects	{2 14 0 7 19}	INTEGER	c38		m		c34		–		–		c34		
17	remoteSuccessfulConnections	{2 14 0 7 15}	INTEGER	c38		m		c34		–		–		c34		
18	remoteUnsuccessfulConnections	{2 14 0 7 17}	INTEGER	c38		m		c34		–		–		c34		
19	unassociatedTPDUs	{2 14 0 7 20}	INTEGER	c38		m		c34		–		–		c34		

c33: if G.1/10a then m else x
c34: if F.20/1b then x else –
c35: if F.22/1a then (if G.1/10a then o else x) else –
c36: if F.22/1a then m else –
c37: if G.1/10a then o else x
c38: if F.20/1b or G.1/9a or G.1/11a then x else –
c39: if F.22/4a then (if G.1/10a then o else x) else –
c40: if F.22/4a then m else –
c41: if F.22/4a then x else –

F.5.4 Attribute group

TABLE F.24/X.284

comodeTPM Attribute group support

				Get		Set to default		
Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Status	Support	Status	Support	Additional information
1	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": counters	{2 9 3 5 8 0}	localErrorDisconnects localSuccessfulConnections localUnsuccessfulConnections maxOpenConnections "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter openConnections remoteErrorDisconnects remoteSuccessfulConnections remoteUnsuccessfulConnections unassociatedTPDUs	m		c34		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": state	{2 9 3 2 8 1}	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": administrativeState "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	m		c34		

F.5.5 Notifications

TABLE F.25/X.284

comodeTPM 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
					Con-firmed	Non-con-firmed								
1	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsInformation	{2 9 3 5 10 0}		m			calledNSAPAddress-PAR calledTSelector-PAR callingNSAPAddress-PAR callingTSelector-PAR networkConnectionIDs-PAR rejectionCause	1.1	communicationsInformation		**Information Syntax** SEQUENCE	m		
								1.1.1	informationType	{2 9 3 5 7 5}	OBJECT IDENTIFIER	m		
								1.1.2	informationData	{2 9 3 5 7 4}	SET OF SEQUENCE	o		
								1.1.2.1	identifier	–	OBJECT IDENTIFIER	c:m		
								1.1.2.2	significance	–	BOOLEAN	c:o		
								1.1.2.3	information	–	ANY DEFINED BY identifier	c:m		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectCreation	{2 9 3 2 10 6}		m				2.1	ObjectInfo		**Information Syntax** SEQUENCE	m		
								2.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								2.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		

TABLE F.25/X.284 *(continued)*

comodeTPM Notification support

					Support									
Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Con-firmed	Non-con-firmed	Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
								2.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								2.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								2.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								2.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								2.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								2.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								2.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								2.1.6.2	significance	–	BOOLEAN	c:o		
								2.1.6.3	information	–	ANY DEFINED BY identifier	c:m		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectDeletion	{2 9 3 2 10 7}		m				3.1	ObjectInfo		**Information Syntax** SEQUENCE	m		
								3.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								3.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								3.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								3.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								3.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								3.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								3.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								3.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		

TABLE F.25/X.284 *(concluded)*

comodeTPM Notification support

					Support									
Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Con-firmed	Non-con-firmed	Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
								3.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								3.1.6.2	significance	–	BOOLEAN	c:o		
								3.1.6.3	information	–	ANY DEFINED BY identifier	c:m		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": stateChange	{2 9 3 2 10 14}		m				4.1	StateChangeInfo		**Information Syntax** SEQUENCE	m		
								4.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								4.1.2	attributeIdentifierList	{2 9 3 2 7 8}	SET OF AttributeId	o		
								4.1.3	stateChangeDefinition	{2 9 3 2 7 28}	SET OF SEQUENCE	m		
								4.1.3.1	attributeID	–	AttributeId	m		
								4.1.3.2	oldAttributeValue	–	ANY DEFINED BY attributeID	o		
								4.1.3.3	newAttributeValue	–	ANY DEFINED BY attributeID	m		
								4.1.4	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								4.1.5	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								4.1.5.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								4.1.5.2	sourceObjectInst	–	ObjectInstance	c:o		
								4.1.6	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								4.1.7	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								4.1.7.1	identifier	–	OBJECT IDENTIFIER	c:m		
								4.1.7.2	significance	–	BOOLEAN	c:o		
								4.1.7.3	information	–	ANY DEFINED BY identifier	c:m		

F.5.6 Actions

TABLE F.26/X.284

comodeTPM Action support

Index	Action type template label	Value of object identifier for action type	Constraints and values	Status	Support	Additional information	Subindex	Action field name label	Constraints and values	Status	Support	Additional information
1	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": activate	{2 9 3 5 9 0}		m			1.1	ActionInfo	**Information Syntax** SET OF SEQUENCE	m		
							1.1.1	identifier	OBJECT IDENTIFIER	m		
							1.1.2	significance	BOOLEAN	o		
							1.1.3	information	ANY DEFINED BY identifier	m		
							1.2	ActionReply	**Reply Syntax** SET OF SEQUENCE	m		
							1.2.1	identifier	OBJECT IDENTIFIER	m		
							1.2.2	significance	BOOLEAN	o		
							1.2.3	information	ANY DEFINED BY identifier	m		
2	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": deactivate	{2 9 3 5 9 1}		m			2.1	ActionInfo	**Information Syntax** SET OF SEQUENCE	m		
							2.1.1	identifier	OBJECT IDENTIFIER	m		
							2.1.2	significance	BOOLEAN	o		
							2.1.3	information	ANY DEFINED BY identifier	m		
							2.2	ActionReply	**Reply Syntax** SET OF SEQUENCE	m		
							2.2.1	identifier	OBJECT IDENTIFIER	m		
							2.2.2	significance	BOOLEAN	o		
							2.2.3	information	ANY DEFINED BY identifier	m		

F.5.7 Parameters

TABLE F.27/X.284

comodeTPM Parameter support

Index	Parameter template label	Value of object identifier for parameter	Constraints and values	Status	Support	Additional information
1	calledNSAPAddress-PAR	(Not registered)	EVENT-INFO communicationsInformation	m		
2	calledTSelector-PAR	(Not registered)	EVENT-INFO communicationsInformation	m		
3	callingNSAPAddress-PAR	(Not registered)	EVENT-INFO communicationsInformation	m		
4	callingTSelector-PAR	(Not registered)	EVENT-INFO communicationsInformation	m		
5	networkConnectionIDs-PAR	(Not registered)	EVENT-INFO communicationsInformation	m		
6	rejectionCause	{2 14 0 5 7}	EVENT-INFO communicationsInformation	m		

F.6 The TSAP managed object

F.6.1 Statement of conformance to the managed object class

TABLE F.28/X.284

tSAP Managed object class support

Index	Managed object class template label	Value of object identifier for class	Support of all mandatory features? (Y/N)	Is the actual class the same as the managed object class to which conformance is claimed? (Y/N)
1	tSAP	{2 14 0 3 5}		

If the answer to the actual class question in Table F.28 is no, the supplier of the implementation shall fill in the actual class support Table F.29.

TABLE F.29/X.284

tSAP Actual class support

Index	Managed object class template for actual class	Value of object identifier for managed object class definition of actual class	Additional information

F.6.2 Packages

The supplier of the implementation shall state whether or not the packages specified by this managed object of this class are supported, in Table F.30.

TABLE F.30/X.284

tSAP Package support

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c42		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packagesPackage	{2 9 3 2 4 16}	"any registered package, other than this package has been instantiated"	c43		
3	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": sap1P1		Mandatory	m		
4	tSAP-P		Mandatory	m		
5	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": topPackage		Mandatory	m		
c42: if F.28/1b then – else m c43: if F.30/1a then m else –						

F.6.3 Attributes

The supplier of the implementation shall state whether or not the attributes specified by all of the packages instantiated in a managed object of this class are supported, in the Support and Additional information columns of Table F.31. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

TABLE F.31/X.284

tSAP Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c44		c45		–		–		–		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c46		m		x		–		–		x		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c47		m		x		–		–		x		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c48		c49		c50		c50		c50		c50		
5	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": sap1Address	{2 9 3 5 7 8}	INTEGER	c51		m		c52		–		–		c52		
6	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": sapId	{2 9 3 5 7 10}	GraphicString	c46		m		x		–		–		x		
7	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": userEntityNames	{2 9 3 5 7 15}	SET OF ObjectInstance	c51		m		c52		c52		c52		c52		

c44: if F.30/1a then (if G.1/13a then o else x) else –
c45: if F.30/1a then m else –
c46: if G.1/13a then o else x
c47: if G.1/13a then m else x
c48: if F.30/2a then (if G.1/13a then o else x) else –
c49: if F.30/2a then m else –
c50: if F.30/2a then x else –
c51: if F.28/1b or G.1/12a or G.1/14a then x else –
c52: if F.28/1b then x else –

F.6.4 Notifications

TABLE F.32/X.284

tSAP 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
					Con-firmed	Non-con-firmed								
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectCreation	{2 9 3 2 10 6}		m				1.1	ObjectInfo		**Information Syntax** SEQUENCE	m		
								1.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								1.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								1.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								1.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								1.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								1.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								1.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								1.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								1.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								1.1.6.2	significance	–	BOOLEAN	c:o		
								1.1.6.3	information	–	ANY DEFINED BY identifier	c:m		

TABLE F.32/X.284 *(concluded)*

tSAP Notification support

					Support									
Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Con-firmed	Non-con-firmed	Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectDeletion	{2 9 3 2 10 7}		m				2.1	ObjectInfo		**Information Syntax** SEQUENCE	m		
								2.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								2.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								2.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								2.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								2.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								2.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								2.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								2.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								2.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								2.1.6.2	significance	–	BOOLEAN	c:o		
								2.1.6.3	information	–	ANY DEFINED BY identifier	c:m		

F.7 The transport connection managed object

F.7.1 Statement of conformance to the managed object class

TABLE F.33/X.284

transportConnection Managed object class support

Index	Managed object class template label	Value of object identifier for class	Support of all mandatory features? (Y/N)	Is the actual class the same as the managed object class to which conformance is claimed? (Y/N)
1	transportConnection	{2 14 0 3 7}		

If the answer to the actual class question in Table F.33 is no, the supplier of the implementation shall fill in the actual class support Table F.34.

TABLE F.34/X.284

transportConnection Actual class support

Index	Managed object class template for actual class	Value of object identifier for managed object class definition of actual class	Additional information

F.7.2 Packages

The supplier of the implementation shall state whether or not the packages specified by this managed object of this class are supported, in Table F.35.

TABLE F.35/X.284

transportConnection Package support

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c53		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packagesPackage	{2 9 3 2 4 16}	"any registered package, other than this package has been instantiated"	c54		
3	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": singlePeerConnectionP1		Mandatory	m		
4	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": singlePeerConnectionP2	{2 9 3 5 4 2}	"The names of the connections supported by this connection can be provided"	o		

TABLE F.35/X.284

transportConnection Package support

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
5	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": topPackage		Mandatory	m		
6	transportConnection-P		Mandatory	m		
7	transportConnectionClass1-P	{2 14 0 4 5}	"At the initiating side, present if class 1 is requested or can be accepted following class negotiation procedures. At the responding side, present if class 1 is chosen"	o		
8	transportConnectionClass2-P	{2 14 0 4 6}	"At the initiating side, present if class 2 is requested or can be accepted following class negotiation procedures. At the responding side, present if class 2 is chosen"	o		
9	transportConnectionClass3-P	{2 14 0 4 7}	"At the initiating side, present if class 3 is requested or can be accepted following class negotiation procedures. At the responding side, present if class 3 is chosen"	o		
10	transportConnectionClass4-P	{2 14 0 4 8}	"At the initiating side, present if class 4 is requested or can be accepted following class negotiation procedures. At the responding side, present if class 4 is chosen"	o		
11	transportConnectionNCMS-P	{2 14 0 4 9}	"NCMS is implemented"	o		
c53: if F.33/1b then – else m c54: if F.35/1a or F.35/2a or F.35/4a or F.35/7a or F.35/8a or F.35/9a or F.35/10a or F.35/11a then m else –						

F.7.3 Attributes

The supplier of the implementation shall state whether or not the attributes specified by all of the packages instantiated in a managed object of this class are supported, in the Support and Additional information columns of Table F.36. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

TABLE F.36/X.284

transportConnection Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
1	acknowledgeTime	{2 14 0 7 47}	SEQUENCE	c55		c56		c57		–		–		c57		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c58		c59		–		–		–		–		
3	calledNSAPAddress	{2 14 0 7 58}	OCTET STRING	x		m		c60		–		–		c60		
4	calledTSelector	{2 14 0 7 56}	OCTET STRING	x		m		c60		–		–		c60		
5	callingNSAPAddress	{2 14 0 7 57}	OCTET STRING	x		m		c60		–		–		c60		
6	callingTSelector	{2 14 0 7 55}	OCTET STRING	x		m		c60		–		–		c60		
7	checksumNonuse	{2 14 0 7 43}	BOOLEAN	c55		c56		c57		–		–		c57		
8	connectionDirection	{2 14 0 7 60}	ENUMERATED	x		m		c60		–		–		c60		
9	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": connectionId	{2 9 3 5 7 1}	GraphicString	x		m		x		–		–		x		
10	explicitFlowControl	{2 14 0 7 45}	BOOLEAN	c61		c62		c63		–		–		c63		
11	extendedFormat	{2 14 0 7 41}	BOOLEAN	c55		c56		c57		–		–		c57		
12	inactivityTime	{2 14 0 7 46}	SEQUENCE	c55		c56		c57		–		–		c57		
13	localReference	{2 14 0 7 53}	INTEGER	x		m		c60		–		–		c60		
14	maxTPDUSize	{2 14 0 7 51}	INTEGER	x		m		c60		–		–		c60		
15	maxTransmissions	{2 14 0 7 52}	INTEGER	c55		c56		c57		–		–		c57		
16	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	x		m		x		–		–		x		
17	networkConnectionIDs	{2 14 0 7 61}	SET OF other	x		m		c60		c60		c60		c60		
18	networkExpeditedData	{2 14 0 7 42}	BOOLEAN	c64		c65		c66		–		–		c66		
19	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	x		m		x		–		–		x		

TABLE F.36/X.284 *(concluded)*

transportConnection Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
20	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	x		m		c60		–		–		c60		
21	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	x		m		c60		–		–		c60		
22	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c67		c68		c67		c67		c67		c67		
23	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": pdusReceivedCounter	{2 9 3 2 7 86}	INTEGER	x		m		c60		–		–		c60		
24	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": pdusRetransmittedErrorCounter	{2 9 3 2 7 87}	INTEGER	x		m		c60		–		–		c60		
25	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": pdusSentCounter	{2 9 3 2 7 88}	INTEGER	x		m		c60		–		–		c60		
26	protocolClass	{2 14 0 7 40}	ENUMERATED	x		m		c60		–		–		c60		
27	protocolErrors	{2 14 0 7 7}	INTEGER	x		m		c60		–		–		c60		
28	reassignmentTime	{2 14 0 7 48}	SEQUENCE	c69		c70		c71		–		–		c71		
29	reassignmentsAfterFailure	{2 14 0 7 62}	INTEGER	c69		c70		c71		–		–		c71		
30	receiptConfirmation	{2 14 0 7 44}	BOOLEAN	c64		c65		c66		–		–		c66		
31	relatingNCCMONames	{2 14 0 7 66}	SET OF other	c72		c73		c74		c74		c74		c74		
32	remoteReference	{2 14 0 7 54}	INTEGER	x		m		c60		–		–		c60		
33	respondingNSAPAddress	{2 14 0 7 59}	OCTET STRING	x		m		c60		–		–		c60		

TABLE F.36/X.284 *(concluded)*

transportConnection Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
34	retransmissionTime	{2 14 0 7 49}	SEQUENCE	c55		c56		c57		–		–		c57		
35	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": supportedConnectionNames	{2 9 3 5 7 12}	SET OF ObjectInstance	c75		c76		c77		c77		c77		c77		
36	transportExpeditedService	{2 14 0 7 65}	BOOLEAN	c55		c56		c57		–		–		c57		
37	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": underlyingConnectionNames	{2 9 3 5 7 14}	SET OF ObjectInstance	x		m		c60		c60		c60		c60		
38	windowTimer	{2 14 0 7 50}	SEQUENCE	c61		c62		c63		–		–		c63		

c55: if F.35/10a then x else –
c56: if F.35/10a then m else –
c57: if F.33/1b and F.35/10a then x else –
c58: if F.35/1a then x else –
c59: if F.35/1a then m else –
c60: if F.33/1b then x else –
c61: if F.35/8a then x else –
c62: if F.35/8a then m else –
c63: if F.33/1b and F.35/8a then x else –
c64: if F.35/7a then x else –
c65: if F.35/7a then m else –
c66: if F.33/1b and F.35/7a then x else –
c67: if F.35/2a then x else –
c68: if F.35/2a then m else –
c69: if F.35/9a then x else –
c70: if F.35/9a then m else –
c71: if F.33/1b and F.35/9a then x else –
c72: if F.35/11a then x else –
c73: if F.35/11a then m else –
c74: if F.33/1b and F.35/11a then x else –
c75: if F.35/4a then x else –
c76: if F.35/4a then m else –
c77: if F.33/1b and F.35/4a then x else –

F.7.4 Attribute group

TABLE F.37/X.284

transportConnection Attribute group support

				Get		Set to default		
Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Status	Support	Status	Support	Additional information
1	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": counters	{2 9 3 5 8 0}	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": pdusReceivedCounter "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": pdusRetransmittedErrorCounter "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": pdusSentCounter protocolErrors	m		c60		

F.7.5 Notifications

TABLE F.38/X.284

transportConnection 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
					Con-firmed	Non-con-firmed								
1	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsInformation	{2 9 3 5 10 0}		m			calledNSAPAddress-PAR calledTSelector-PAR callingNSAPAddress-PAR callingTSelector-PAR connectionDirection-PAR maxTPDUSize-PAR networkConnectionIDs-PAR protocolClass-PAR respondingNSAPAddress-PAR transportConnectionName	1.1	CommunicationsInformation		**Information Syntax** SEQUENCE	m		

TABLE F.38/X.284 *(continued)*

transportConnection Notification support

					Support										
Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Con-firmed	Non-con-firmed	Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
								1.1.1	informationType	{2 9 3 5 7 5}	OBJECT IDENTIFIER	m		
								1.1.2	informationData	{2 9 3 5 7 4}	SET OF SEQUENCE	o		
								1.1.2.1	identifier	–	OBJECT IDENTIFIER	c:m		
								1.1.2.2	significance	–	BOOLEAN	c:o		
								1.1.2.3	information	–	ANY DEFINED BY identifier	c:m		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectCreation	{2 9 3 2 10 6}		m			calledNSAPAddress-PAR calledTSelector-PAR callingNSAPAddress-PAR callingTSelector-PAR connectionDirection-PAR maxTPDUSize-PAR networkConnectionIDs-PAR protocolClass-PAR respondingNSAPAddress-PAR transportConnectionName	2.1	ObjectInfo		**Information Syntax** SEQUENCE	m		

TABLE F.38/X.284 *(continued)*

transportConnection Notification support

					Support										
Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Con-firmed	Non-con-firmed	Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
								2.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								2.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								2.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								2.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								2.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								2.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								2.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								2.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								2.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								2.1.6.2	significance	–	BOOLEAN	c:o		
								2.1.6.3	information	–	ANY DEFINED BY identifier	c:m		

TABLE F.38/X.284 *(continued)*

transportConnection Notification support

					Support									
Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Con-firmed	Non-con-firmed	Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectDeletion	{2 9 3 2 10 7}		m			calledNSAPAddress-PAR calledTSelector-PAR callingNSAPAddress-PAR callingTSelector-PAR connectionDirection-PAR maxTPDUSize-PAR networkConnectionIDs-PAR objectDeletionCause protocolClass-PAR respondingNSAPAddress-PAR transportConnectionName	3.1	ObjectInfo		**Information Syntax** SEQUENCE	m		

TABLE F.38/X.284 *(concluded)*

transportConnection Notification support

					Support										
Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Con-firmed	Non-con-firmed	Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
								3.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								3.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								3.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								3.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								3.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								3.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								3.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								3.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								3.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								3.1.6.2	significance	–	BOOLEAN	c:o		
								3.1.6.3	information	–	ANY DEFINED BY identifier	c:m		

F.7.6 Parameters

TABLE F.39/X.284

transportConnection Parameter support

Index	Parameter template label	Value of object identifier for parameter	Constraints and values	Status	Support	Additional information
1	calledNSAPAddress-PAR	(Not registered)	EVENT-INFO communicationsInformation	m		
2	calledTSelector-PAR	(Not registered)	EVENT-INFO communicationsInformation	m		
3	callingNSAPAddress-PAR	(Not registered)	EVENT-INFO communicationsInformation	m		
4	callingTSelector-PAR	(Not registered)	EVENT-INFO communicationsInformation	m		
5	connectionDirection-PAR	(Not registered)	EVENT-INFO communicationsInformation	m		
6	maxTPDUSize-PAR	(Not registered)	EVENT-INFO communicationsInformation	m		
7	networkConnectionIDs-PAR	(Not registered)	EVENT-INFO communicationsInformation	m		
8	protocolClass-PAR	(Not registered)	EVENT-INFO communicationsInformation	m		
9	respondingNSAPAddress-PAR	(Not registered)	EVENT-INFO communicationsInformation	m		
10	transportConnectionName	(Not registered)	EVENT-INFO communicationsInformation	m		
11	calledNSAPAddress-PAR	(Not registered)	EVENT-INFO objectCreation	m		
12	calledTSelector-PAR	(Not registered)	EVENT-INFO objectCreation	m		
13	callingNSAPAddress-PAR	(Not registered)	EVENT-INFO objectCreation	m		
14	callingTSelector-PAR	(Not registered)	EVENT-INFO objectCreation	m		
15	connectionDirection-PAR	(Not registered)	EVENT-INFO objectCreation	m		
16	maxTPDUSize-PAR	(Not registered)	EVENT-INFO objectCreation	m		
17	networkConnectionIDs-PAR	(Not registered)	EVENT-INFO objectCreation	m		
18	protocolClass-PAR	(Not registered)	EVENT-INFO objectCreation	m		
19	respondingNSAPAddress-PAR	(Not registered)	EVENT-INFO objectCreation	m		
20	transportConnectionName	(Not registered)	EVENT-INFO objectCreation	m		
21	calledNSAPAddress-PAR	(Not registered)	EVENT-INFO objectDeletion	m		
22	calledTSelector-PAR	(Not registered)	EVENT-INFO objectDeletion	m		
23	callingNSAPAddress-PAR	(Not registered)	EVENT-INFO objectDeletion	m		
24	callingTSelector-PAR	(Not registered)	EVENT-INFO objectDeletion	m		
25	connectionDirection-PAR	(Not registered)	EVENT-INFO objectDeletion	m		
26	maxTPDUSize-PAR	(Not registered)	EVENT-INFO objectDeletion	m		
27	networkConnectionIDs-PAR	(Not registered)	EVENT-INFO objectDeletion	m		
28	objectDeletionCause	{2 14 0 5 6}	EVENT-INFO objectDeletion	m		
29	protocolClass-PAR	(Not registered)	EVENT-INFO objectDeletion	m		
30	respondingNSAPAddress-PAR	(Not registered)	EVENT-INFO objectDeletion	m		
31	transportConnectionName	(Not registered)	EVENT-INFO objectDeletion	m		

F.8 The transport connection IVMO

F.8.1 Statement of conformance to the managed object class

TABLE F.40/X.284

transportConnectionIVMO Managed object class support

Index	Managed object class template label	Value of object identifier for class	Support of all mandatory features? (Y/N)	Is the actual class the same as the managed object class to which conformance is claimed? (Y/N)
1	transportConnectionIVMO	{2 14 0 3 6}		

If the answer to the actual class question in Table F.40 is no, the supplier of the implementation shall fill in the actual class support Table F.41.

TABLE F.41/X.284

transportConnectionIVMO Actual class support

Index	Managed object class template for actual class	Value of object identifier for managed object class definition of actual class	Additional information

F.8.2 Packages

The supplier of the implementation shall state whether or not the packages specified by this managed object of this class are supported, in Table F.42.

TABLE F.42/X.284

transportConnectionIVMO Package support

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c78		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packagesPackage	{2 9 3 2 4 16}	"any registered package, other than this package has been instantiated"	c79		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": topPackage		Mandatory	m		
4	transportConnectionIVMO-P		Mandatory	m		
5	transportConnectionIVMOClass1-P	{2 14 0 4 1}	"Transport Class 1 is implemented"	c80		

TABLE F.42/X.284 *(concluded)*

transportConnectionIVMO Package support

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
6	transportConnectionIVMOClass2-P	{2 14 0 4 2}	"Transport Class 2 is implemented"	c81		
7	transportConnectionIVMOClass3-P	{2 14 0 4 3}	"Transport Class 3 is implemented"	c82		
8	transportConnectionIVMOClass4-P	{2 14 0 4 4}	"Transport Class 4 is implemented"	c83		
c78: if F.40/1b then – else m c79: if F.42/1a or F.42/5a or F.42/6a or F.42/7a or F.42/8a then m else – c80: if F.35/7a then m else o c81: if F.35/8a then m else o c82: if F.35/9a then m else o c83: if F.35/10a then m else o						

F.8.3 Attributes

The supplier of the implementation shall state whether or not the attributes specified by all of the packages instantiated in a managed object of this class are supported, in the Support and Additional information columns of Table F.43. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

TABLE F.43/X.284

transportConnectionIVMO Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c84		c85		–		–		–		-		
2	checksumNonuse	{2 14 0 7 43}	BOOLEAN	c86		c86		c86		–		–		c86		
3	explicitFlowControl	{2 14 0 7 45}	BOOLEAN	c87		c87		c87		–		–		c87		
4	extendedFormat	{2 14 0 7 41}	BOOLEAN	c86		c86		c86		–		–		c86		
5	inactivityTime	{2 14 0 7 46}	SEQUENCE	c86		c86		c86		–		–		c86		
6	maxTPDUSize	{2 14 0 7 51}	INTEGER	m		m		m		–		–		m		
7	maxTransmissions	{2 14 0 7 52}	INTEGER	c86		c86		c86		–		–		c86		
8	maximumWindow	{2 14 0 7 36}	INTEGER	c86		c86		c86		–		–		c86		
9	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	o		m		x		–		–		x		
10	networkExpeditedData	{2 14 0 7 42}	BOOLEAN	c88		c88		c88		–		–		c88		
11	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	m		m		x		–		–		x		
12	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c89		c90		c91		c91		c91		c91		
13	protocolClasses	{2 14 0 7 26}	SET OF ENUMERATED	m		m		m		c92		c92		m		
14	reassignmentTime	{2 14 0 7 48}	SEQUENCE	c93		c93		c93		–		–		c93		

TABLE F.43/X.284 *(concluded)*

transportConnectionIVMO Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
15	receiptConfirmation	{2 14 0 7 44}	BOOLEAN	c88		c88		c88		–		–		c88		
16	retransmissionTime	{2 14 0 7 49}	SEQUENCE	c86		c86		c86		–		–		c86		
17	transportConnectionIVMOId	{2 14 0 7 25}	GraphicString	o		m		x		–		–		x		
18	transportExpeditedService	{2 14 0 7 65}	BOOLEAN	c86		c86		c86		–		–		c86		
19	windowTimer	{2 14 0 7 50}	SEQUENCE	c86		c86		c86		–		–		c86		

c84: if F.42/1a then o else –

c85: if F.42/1a then m else –

c86: if F.42/8a then m else –

c87: if F.42/6a then m else –

c88: if F.42/5a then m else –

c89: if F.42/2a then o else –

c90: if F.42/2a then m else –

c91: if F.42/2a then x else –

c92: if F.40/1b then x else –

c93: if F.42/7a then m else –

F.9 The communication information record managed object (ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994)

F.9.1 Statement of conformance to the managed object class

TABLE F.44/X.284

communicationInformationRecord Managed object class support

Index	Managed object class template label	Value of object identifier for class	Support of all mandatory features? (Y/N)	Is the actual class the same as the managed object class to which conformance is claimed? (Y/N)
1	communicationInformationRecord	{2 9 3 5 4 0}		

If the answer to the actual class question in Table F.44 is no, the supplier of the implementation shall fill in the actual class support Table F.45.

TABLE F.45/X.284

communicationInformationRecord Actual class support

Index	Managed object class template for actual class	Value of object identifier for managed object class definition of actual class	Additional information

F.9.2 Packages

The supplier of the implementation shall state whether or not the packages specified by this managed object of this class are supported, in Table F.46.

TABLE F.46/X.284

communicationInformationRecord Package support

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c94		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packagesPackage	{2 9 3 2 4 16}	"any registered package, other than this package has been instantiated"	c95		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": topPackage		Mandatory	m		
4	logRecordPackage		Mandatory	m		
5	eventLogRecordPackage		Mandatory	m		
6	eventTimePackage	{2 9 3 2 4 11}	"the event time parameter was present in the received event report"	o		

TABLE F.46/X.284 *(concluded)*

communicationInformationRecord Package support

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
7	notificationIdentifierPackage	{2 9 3 2 4 24}	"the notification identifier parameter is present in the notification or event report corresponding to the instance of an event record or an instance of its subclasses"	o		
8	correlatedNotificationsPackage	{2 9 3 2 4 23}	"the correlatedNotifications parameter is present in the notification or event report corresponding to the instance of an event record or an instance of its subclasses"	o		
9	additionalTextPackage	{2 9 3 2 4 19}	"the Additional text parameter is present in the notification or report corresponding to the instance of event record or an instance of its subclasses"	o		
10	additionalInformationPackage	{2 9 3 2 4 18}	"the Additional information parameter is present in the notification or report corresponding to the instance of event record or an instance of its subclasses"	o		
11	communicationInformationRecordP1		Mandatory	m		
12	informationDataPackage	{2 14 0 4 1}	"the informationData parameter is present in the communicationsInformation event report corresponding to the instance of communicationsInformationRecord"	o		
c94: if F.44/1b then – else m c95: if F.46/2a or F.46/6a or F.46/7a or F.46/8a or F.46/9a or F.46/10a or F.46/12a then m else –						

F.9.3 Attributes

The supplier of the implementation shall state whether or not the attributes specified by all of the packages instantiated in a managed object of this class are supported, in the Support and Additional information columns of Table F.40. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

TABLE F.47/X.284

communicationInformationRecord Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c96		c97		–		–		–		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	x		m		x		–		–		–		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	x		m		x		–		–		–		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c98		c99		c98		c98		c98		–		
5	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": logRecordId	{2 9 3 2 7 3}		x		m		x		–		–		–		
6	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": loggingTime	{2 9 3 2 7 59}		x		m		x		–		–		–		
7	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": managedObjectClass	{2 9 3 2 7 60}		x		m		x		–		–		–		
8	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": managedObjectInstance	{2 9 3 2 7 61}		x		m		x		–		–		–		
9	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": eventType	{2 9 3 2 7 14}		x		m		x		–		–		–		
10	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": eventTime	{2 9 3 2 7 13}		c100		c101		c100		–		–		–		

TABLE F.47/X.284 *(concluded)*

communicationInformationRecord Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
11	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": notificationIdentifier	{2 9 3 2 7 16}		c102		c103		c102		–		–		–		
12	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": correlatedNotifications	{2 9 3 2 7 12}		c104		c105		c104		–		–		–		
13	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": additionalText	{2 9 3 2 7 7}		c106		c107		c106		–		–		–		
14	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": additionalInformation	{2 9 3 2 7 6}		c108		c109		c108		–		–		–		
15	informationType	{2 14 0 7 43}		x		m		x		–		–		–		
16	informationData	{2 14 0 7 45}		c110		c111		c110		c110		c110		–		

c96: if F.46/1a then x else –
c97: if F.46/1a then m else –
c98: if F.46/2a then x else –
c99: if F.46/2a then m else –
c100: if F.46/6a then m else –
c101: if F.46/6a then x else –
c102: if F.46/7a then m else –
c103: if F.46/7a then x else –
c104: if F.46/8a then m else –
c105: if F.46/8a then x else –
c106: if F.46/9a then m else –
c107: if F.46/9a then x else –
c108: if F.46/10a then m else –
c109: if F.46/10a then x else –
c110: if F.46/12a then x else –
c111: if F.46/12a then m else –

F.10 The NCMS Protocol Machine managed object

F.10.1 Statement of conformance to the managed object class

TABLE F.48/X.284

ncmsPM Managed object class support

Index	Managed object class template label	Value of object identifier for class	Support of all mandatory features? (Y/N)	Is the actual class the same as the managed object class to which conformance is claimed? (Y/N)
1	ncmsPM	{2 14 0 3 8}		

If the answer to the actual class question in Table F.48 is no, the supplier of the implementation shall fill in the actual class support Table F.49.

TABLE F.49/X.284

ncmsPM Actual class support

Index	Managed object class template for actual class	Value of object identifier for managed object class definition of actual class	Additional information

F.10.2 Packages

The supplier of the implementation shall state whether or not the packages specified by this managed object of this class are supported, in Table F.50.

TABLE F.50/X.284

ncmsPM Package support

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c112		
2	ncmsPM-P		Mandatory	m		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packagesPackage	{2 9 3 2 4 16}	"any registered package, other than this package has been instantiated"	c113		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": topPackage		Mandatory	m		
c112: if F.48/1b then – else m c113: if F.50/1a then m else –						

F.10.3 Attributes

The supplier of the implementation shall state whether or not the attributes specified by all of the packages instantiated in a managed object of this class are supported, in the Support and Additional information columns of Table F.51. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

TABLE F.51/X.284

ncmsPM Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": administrativeState	{2 9 3 2 7 31}	ENUMERATED	c114		m		m		–		–		c115		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c116		c117		–		–		–		–		
3	ncmsPMId	{2 14 0 7 67}	GraphicString	c118		m		x		–		–		x		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c118		m		x		–		–		x		
5	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c114		m		x		–		–		x		
6	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	x		m		x		–		–		x		
7	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c119		c120		c121		c121		c121		c121		

c114: if G.1/19a then m else x

c115: if F.48/1b then x else –

c116: if F.50/1a then (if G.1/19a then o else x) else –

c117: if F.50/1a then m else –

c118: if G.1/19a then o else x

c119: if F.50/3a then (if G.1/19a then o else x) else –

c120: if F.50/3a then m else –

c121: if F.50/3a then x else –

F.10.4 Notifications

TABLE F.52/X.284

ncmsPM 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
					Con-firmed	Non-con-firmed								
1	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsInformation	{2 9 3 5 10 0}		m			ncmsPMPDUHeader ncmsPMSourceAddress	1.1	CommunicationsInformation		**Information Syntax** SEQUENCE	m		
								1.1.1	informationType	{2 9 3 5 7 5}	OBJECT IDENTIFIER	m		
								1.1.2	informationData	{2 9 3 5 7 4}	SET OF SEQUENCE	o		
								1.1.2.1	identifier	–	OBJECT IDENTIFIER	c:m		
								1.1.2.2	significance	–	BOOLEAN	c:o		
								1.1.2.3	information	–	ANY DEFINED BY identifier	c:m		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectCreation	{2 9 3 2 10 6}		m				2.1	ObjectInfo		**Information Syntax** SEQUENCE	m		
								2.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								2.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								2.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								2.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								2.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								2.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		

TABLE F.52/X.284 *(continued)*

ncmsPM Notification support

					Support									
Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Con-firmed	Non-con-firmed	Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
								2.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								2.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								2.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								2.1.6.2	significance	–	BOOLEAN	c:o		
								2.1.6.3	information	–	ANY DEFINED BY identifier	c:m		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectDeletion	{2 9 3 2 10 7}		m				3.1	ObjectInfo		**Information Syntax** SEQUENCE	m		
								3.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								3.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								3.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								3.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								3.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								3.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								3.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								3.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								3.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								3.1.6.2	significance	–	BOOLEAN	c:o		
								3.1.6.3	information	–	ANY DEFINED BY identifier	c:m		

TABLE F.52/X.284 *(concluded)*

ncmsPM Notification support

					Support										
Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Con-firmed	Non-con-firmed	Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": stateChange	{2 9 3 2 10 14}		m				4.1	StateChangeInfo		**Information Syntax** SEQUENCE	m		
								4.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								4.1.2	attributeIdentifierList	{2 9 3 2 7 8}	SET OF AttributeId	o		
								4.1.3	stateChangeDefinition	{2 9 3 2 7 28}	SET OF SEQUENCE	m		
								4.1.3.1	attributeID	–	AttributeId	m		
								4.1.3.2	oldAttributeValue	–	ANY DEFINED BY attributeID	o		
								4.1.3.3	newAttributeValue	–	ANY DEFINED BY attributeID	m		
								4.1.4	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								4.1.5	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								4.1.5.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								4.1.5.2	sourceObjectInst	–	ObjectInstance	c:o		
								4.1.6	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								4.1.7	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								4.1.7.1	identifier	–	OBJECT IDENTIFIER	c:m		
								4.1.7.2	significance	–	BOOLEAN	c:o		
								4.1.7.3	information	–	ANY DEFINED BY identifier	c:m		

F.10.5 Actions

TABLE F.53/X.284

ncmsPM Action support

Index	Action type template label	Value of object identifier for action type	Constraints and values	Status	Support	Additional information	Subindex	Action field name label	Constraints and values	Status	Support	Additional information
1	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": activate	{2 9 3 5 9 0}		m			1.1	ActionInfo	**Information Syntax** SET OF SEQUENCE	m		
							1.1.1	identifier	OBJECT IDENTIFIER	m		
							1.1.2	significance	BOOLEAN	o		
							1.1.3	information	ANY DEFINED BY identifier	m		
							1.2	ActionReply	**Reply Syntax** SET OF SEQUENCE	m		
							1.2.1	identifier	OBJECT IDENTIFIER	m		
							1.2.2	significance	BOOLEAN	o		
							1.2.3	information	ANY DEFINED BY identifier	m		
2	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": deactivate	{2 9 3 5 9 1}		m			2.1	ActionInfo	**Information Syntax** SET OF SEQUENCE	m		
							2.1.1	identifier	OBJECT IDENTIFIER	m		
							2.1.2	significance	BOOLEAN	o		
							2.1.3	information	ANY DEFINED BY identifier	m		
							2.2	ActionReply	**Reply Syntax** SET OF SEQUENCE	m		
							2.2.1	identifier	OBJECT IDENTIFIER	m		
							2.2.2	significance	BOOLEAN	o		
							2.2.3	information	ANY DEFINED BY identifier	m		

F.10.6 Parameters

TABLE F.54/X.284

ncmsPM Parameter support

Index	Parameter template label	Value of object identifier for parameter	Constraints and values	Status	Support	Additional information
1	ncmsPMPDUHeader	{2 14 0 5 8}	EVENT-INFO communicationsInformation	m		
2	ncmsPMSourceAddress	{2 14 0 5 9}	EVENT-INFO communicationsInformation	m		

F.11 The Network Connection Control managed object

F.11.1 Statement of conformance to the managed object class

TABLE F.55/X.284

ncc Managed object class support

Index	Managed object class template label	Value of object identifier for class	Support of all mandatory features? (Y/N)	Is the actual class the same as the managed object class to which conformance is claimed? (Y/N)
1	ncc	{2 14 0 3 9}		

If the answer to the actual class question in Table F.55 is no, the supplier of the implementation shall fill in the actual class support Table F.56.

TABLE F.56/X.284

ncc Actual class support

Index	Managed object class template for actual class	Value of object identifier for managed object class definition of actual class	Additional information

F.11.2 Packages

The supplier of the implementation shall state whether or not the packages specified by this managed object of this class are supported, in Table F.57.

TABLE F.57/X.284

ncc Package support

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c122		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packagesPackage	{2 9 3 2 4 16}	"any registered package, other than this package has been instantiated"	c123		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": topPackage		Mandatory	m		
4	ncc-P		Mandatory	m		
c122: if F.55/1b then – else m c123: if F.57/1a then m else –						

F.11.3 Attributes

The supplier of the implementation shall state whether or not the attributes specified by all of the packages instantiated in a managed object of this class are supported, in the Support and Additional information columns of Table F.58. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

TABLE F.58/X.284

ncc Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c124		c125		–		–		–		–		
2	nccId	{2 14 0 7 68}	GraphicString	o		m		x		–		–		x		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	o		m		x		–		–		x		
4	ncc-COL	{2 14 0 7 70}	ENUMERATED	c126		m		c126		–		–		c126		
5	nc-REC	{2 14 0 7 72}	ENUMERATED	c126		m		c126		–		–		c126		
6	nc-REF	{2 14 0 7 73}	INTEGER	c126		m		c126		–		–		c126		
7	nc-PREF	{2 14 0 7 71}	ENUMERATED	c126		m		c126		–		–		c126		
8	nc-Right	{2 14 0 7 75}	ENUMERATED	c126		m		c126		–		–		c126		
9	ncRecoveries	{2 14 0 7 74}	INTEGER	c126		m		c126		–		–		c126		
10	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	m		m		x		–		–		x		
11	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c127		c128		c129		c129		c129		c129		
12	ttrNCTime	{2 14 0 7 79}	SEQUENCE	c126		m		c126		–		–		c126		
13	tpdNCTime	{2 14 0 7 78}	SEQUENCE	c126		m		c126		–		–		c126		
14	tfrNCTime	{2 14 0 7 77}	SEQUENCE	c126		m		c126		–		–		c126		
15	sourceOfAllocation	{2 14 0 7 76}	ENUMERATED	c126		m		c126		–		–		c126		
16	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": underlyingConnectionNames	{2 9 3 5 7 14}	SET OF ObjectInstance	c126		m		c126		c126		c126		c126		

c124: if F.57/1a then o else –

c125: if F.57/1a then m else –

c126: if F.55/1b then x else –

c127: if F.57/2a then o else –

c128: if F.57/2a then m else –

c129: if F.57/2a then x else –

F.11.4 Notifications

TABLE F.59/X.284

ncc 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
					Con-firmed	Non-con-firmed								
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectCreation	{2 9 3 2 10 6}		m				1.1	ObjectInfo		**Information Syntax** SEQUENCE	m		
								1.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								1.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								1.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								1.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								1.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								1.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								1.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								1.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								1.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								1.1.6.2	significance	–	BOOLEAN	c:o		
								1.1.6.3	information	–	ANY DEFINED BY identifier	c:m		

TABLE F.59/X.284 *(concluded)*

ncc 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
					Con-firmed	Non-con-firmed								
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectDeletion	{2 9 3 2 10 7}		m				2.1	ObjectInfo		**Information Syntax** SEQUENCE	m		
								2.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								2.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								2.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								2.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								2.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								2.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								2.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								2.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								2.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								2.1.6.2	significance	–	BOOLEAN	c:o		
								2.1.6.3	information	–	ANY DEFINED BY identifier	c:m		

F.12 The Network Connection Control Initial Value managed object

F.12.1 Statement of conformance to the managed object class

TABLE F.60/X.284

nccIVMO Managed object class support

Index	Managed object class template label	Value of object identifier for class	Support of all mandatory features? (Y/N)	Is the actual class the same as the managed object class to which conformance is claimed? (Y/N)
1	nccIVMO	{2 14 0 3 10}		

If the answer to the actual class question in Table F.60 is no, the supplier of the implementation shall fill in the actual class support Table F.61.

TABLE F.61/X.284

nccIVMO Actual class support

Index	Managed object class template for actual class	Value of object identifier for managed object class definition of actual class	Additional information

F.12.2 Packages

The supplier of the implementation shall state whether or not the packages specified by this managed object of this class are supported, in Table F.62.

TABLE F.62/X.284

nccIVMO Package support

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c130		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packagesPackage	{2 9 3 2 4 16}	"any registered package, other than this package has been instantiated"	c131		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": topPackage		Mandatory	m		
4	nccIVMO-P		Mandatory	m		
c130: if F.60/1b then – else m c131: if F.62/1a then m else –						

F.12.3 Attributes

The supplier of the implementation shall state whether or not the attributes specified by all of the packages instantiated in a managed object of this class are supported, in the Support and Additional information columns of Table F.63. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

TABLE F.63/X.284

nccIVMO Attribute support

				Set by create		Get		Replace		Add		Remove		Set to default		
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Additional information
1	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c132		c133		–		–		–		–		
2	nccIVMOId	{2 14 0 7 69}	GraphicString	o		m		x		–		–		x		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	o		m		x		–		–		x		
4	ncc-COL	{2 14 0 7 70}	ENUMERATED	m		m		m		–		–		m		
5	nc-REC	{2 14 0 7 72}	ENUMERATED	m		m		m		–		–		m		
6	nc-PREF	{2 14 0 7 71}	ENUMERATED	m		m		m		–		–		m		
7	nc-Right	{2 14 0 7 75}	ENUMERATED	m		m		m		–		–		m		
8	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	m		m		x		–		–		x		
9	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c134		c135		c136		c136		c136		c136		
10	ttrNCTime	{2 14 0 7 79}	SEQUENCE	m		m		m		–		–		m		
11	tpdNCTime	{2 14 0 7 78}	SEQUENCE	m		m		m		–		–		m		
12	tfrNCTime	{2 14 0 7 77}	SEQUENCE	m		m		m		–		–		m		

c132: if F.62/1a then o else –

c133: if F.62/1a then m else –

c134: if F.62/2a then o else –

c135: if F.62/2a then m else –

c136: if F.62/2a then x else –

Annexe G[6)]

Formulaire MRCS pour les corrélations de noms

G.1 Introduction

The purpose of this MRCS proforma for name bindings is to provide a mechanism for a supplier which claims conformance to a name binding to provide conformance information in a standard form.

G.2 Instructions for completing the MRCS proforma for name binding to produce a MRCS[7)]

The supplier of the implementation shall state which items are supported in the tables below and if necessary provide additional information.

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6) **Droits de reproduction du formulaire MRCS**
Les utilisateurs de la présente Recommandation sont autorisés à reproduire le formulaire MRCS de la présente annexe pour utiliser celui-ci conformément à son objet. Ils sont également autorisés à publier le formulaire une fois celui-ci complété.

7) Instructions for completing the MRCS proforma are found in ITU-T Rec.X.724 | ISO/IEC 10165-6, clause 5.

G.3 Statement of conformance to the name binding

TABLE G.1/X.284

Name Binding support

Index	Name binding template label	Value of object identifier for name binding	Constraints and values	Status	Support	Additional information	Subindex	Operation	Constraints and values	Status	Support	Additional information
1	transportSubsystem-system	{2 14 0 6 1}	Superior class: "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": system AND SUBCLASSES	o			1.1	Create support		x		
							1.1.1	Create with reference object		–		
							1.1.2	Create with automatic instance naming		–		
							1.2	Delete support		x		
							1.2.1	Delete only if no contained objects		–		
							1.2.2	Delete contained objects		–		
2	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": subsystem-system	{2 9 3 5 6 6}	Superior class: "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": system AND SUBCLASSES	o			2.1	Create support		x		
							2.1.2	Create with reference object		–		
							2.1.3	Create with automatic instance naming		–		
							2.2	Delete support		x		
							2.2.1	Delete only if no contained objects		–		
							2.2.2	Delete contained objects		–		
3	transportEntity-transportSubsystem-Automatic	{2 14 0 6 11}	Superior class: transportSubsystem AND SUBCLASSES	o			3.1	Create support		x		
							3.1.2	Create with reference object		–		
							3.1.2	Create with automatic instance naming		–		
							3.2	Delete support		x		
							3.2.1	Delete only if no contained objects		–		
							3.2.2	Delete contained objects		–		

TABLE G.1/X.284 *(continued)*

Name Binding support

Index	Name binding template label	Value of object identifier for name binding	Constraints and values	Status	Support	Additional information	Subindex	Operation	Constraints and values	Status	Support	Additional information
4	transportEntity-transportSubsystem-Management	{2 14 0 6 12}	Superior class: transportSubsystem AND SUBCLASSES	o			4.1	Create support		m		
							4.1.1	Create with reference object		–		
							4.1.2	Create with automatic instance naming		–		
							4.2	Delete support		m		
							4.2.1	Delete only if no contained objects		–		
							4.2.2	Delete contained objects		–		
5	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsEntity-subsystem	{2 9 3 5 6 1}	Superior class: "UIT-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": subsystem AND SUBCLASSES	o			5.1	Create support		x		
							5.1.1	Create with reference object		–		
							5.1.2	Create with automatic instance naming		–		
							5.2	Delete support		x		
							5.2.1	Delete only if no contained objects		–		
							5.1.2	Delete contained objects		–		
6	clmodeTPM-transportEntity-Automatic	{2 14 0 6 9}	Superior class: transportEntity AND SUBCLASSES	o			6.1	Create support		x		
							6.1.1	Create with reference object		–		
							6.1.2	Create with automatic instance naming		–		
							6.2	Delete support		x		
							6.2.1	Delete only if no contained objects		–		
							6.2.2	Delete contained objects		–		

TABLE G.1/X.284 *(continued)*

Name Binding support

Index	Name binding template label	Value of object identifier for name binding	Constraints and values	Status	Support	Additional information	Subindex	Operation	Constraints and values	Status	Support	Additional information
7	clmodeTPM-transportEntity-Management	{2 14 0 6 3}	Superior class: transportEntity AND SUBCLASSES	o			7.1	Create support		m		
							7.1.1	Create with reference object		–		
							7.1.2	Create with automatic instance naming		–		
							7.2	Delete support		m		
							7.2.1	Delete only if no contained objects		m		
							7.2.1	Delete contained objects		x		
8	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": clProtocolMachine-entity	{2 9 3 5 6 0}	Superior class: "ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsEntity AND SUBCLASSES	o			8.1	Create support		x		
							8.1.1	Create with reference object		–		
							8.1.2	Create with automatic instance naming		–		
							8.2	Delete support		x		
							8.2.1	Delete only if no contained objects		–		
							8.2.2	Delete contained objects		–		
9	comodeTPM-transportEntity-Automatic	{2 14 0 6 10}	Superior class: transportEntity AND SUBCLASSES	o			9.1	Create support		x		
							9.1.1	Create with reference object		–		
							9.1.2	Create with automatic instance naming		–		
							9.2	Delete support		x		
							9.2.1	Delete only if no contained objects		–		
							9.2.2	Delete contained objects		–		

TABLE G.1/X.284 *(continued)*

Name Binding support

Index	Name binding template label	Value of object identifier for name binding	Constraints and values	Status	Support	Additional information	Subindex	Operation	Constraints and values	Status	Support	Additional information
10	comodeTPM-transportEntity-Management	{2 14 0 6 4}	Superior class: transportEntity AND SUBCLASSES	o			10.1	Create support		m		
							10.1.1	Create with reference object		–		
							10.1.2	Create with automatic instance naming		–		
							10.2	Delete support		m		
							10.2.1	Delete only if no contained objects		m		
							10.2.2	Delete contained objects		x		
11	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": coProtocolMachine-entity	{2 9 3 5 6 2}	Superior class: "ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsEntity AND SUBCLASSES	o			11.1	Create support		x		
							11.1.1	Create with reference object		–		
							11.1.2	Create with automatic instance naming		–		
							11.2	Delete support		x		
							11.2.1	Delete only if no contained objects		–		
							11.2.2	Delete contained objects		–		
12	tSAP-transportEntity-Automatic	{2 14 0 6 5}	Superior class: transportEntity AND SUBCLASSES	o			12.1	Create support		x		
							12.1.1	Create with reference object		–		
							12.1.2	Create with automatic instance naming		–		
							12.2	Delete support		x		
							12.2.1	Delete only if no contained objects		–		
							12.2.2	Delete contained objects		–		

TABLE G.1/X.284 *(continued)*

Name Binding support

Index	Name binding template label	Value of object identifier for name binding	Constraints and values	Status	Support	Additional information	Subindex	Operation	Constraints and values	Status	Support	Additional information
13	tSAP-transportEntity-Management	{2 14 0 6 6}	Superior class: transportEntity AND SUBCLASSES	o			13.1	Create support		m		
							13.1.1	Create with reference object		–		
							13.1.2	Create with automatic instance naming		–		
							13.2	Delete support		m		
							13.2.1	Delete only if no contained objects		m		
							13.2.2	Delete contained objects		x		
14	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": sap1-communicationsEntity	{2 9 3 5 6 3}	Superior class: "ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsEntity AND SUBCLASSES	o			14.1	Create support		x		
							14.1.1	Create with reference object		–		
							14.1.2	Create with automatic instance naming		–		
							14.2	Delete support		x		
							14.2.1	Delete only if no contained objects		–		
							14.2.2	Delete contained objects		–		
15	transportConnection-comodeTPM	{2 14 0 6 8}	Superior class: comodeTPM AND SUBCLASSES	o			15.1	Create support		x		
							15.1.1	Create with reference object		–		
							15.1.2	Create with automatic instance naming		–		
							15.2	Delete support		x		
							15.2.1	Delete only if no contained objects		–		
							15.2.2	Delete contained objects		–		

TABLE G.1/X.284 *(continued)*

Name Binding support

Index	Name binding template label	Value of object identifier for name binding	Constraints and values	Status	Support	Additional information	Subindex	Operation	Constraints and values	Status	Support	Additional information
16	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": singlePeerConnection-coProtocolMachine	{2 9 3 5 6 5}	Superior class: "ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": coProtocolMachine AND SUBCLASSES	o			16.1	Create support		x		
							16.1.1	Create with reference object		–		
							16.1.2	Create with automatic instance naming		–		
							16.2	Delete support		x		
							16.2.1	Delete only if no contained objects		–		
							16.2.2	Delete contained objects		–		
17	transportConnectionIVMO-comodeTPM	{2 14 0 6 7}	Superior class: comodeTPM AND SUBCLASSES	o			17.1	Create support		m		
							17.1.1	Create with reference object		m		
							17.1.2	Create with automatic instance naming		–		
							17.2	Delete support		m		
							17.2.1	Delete only if no contained objects		m		
							17.2.2	Delete contained objects		x		
18	ncmsPM-transportEntity-Automatic	{2 14 0 6 14}	Superior class: transportEntity AND SUBCLASSES	o			18.1	Create support		x		
							18.1.1	Create with reference object		–		
							18.1.2	Create with automatic instance naming		–		
							18.2	Delete support		x		
							18.2.1	Delete only if no contained objects		–		
							18.2.2	Delete contained objects		–		

TABLE G.1/X.284 *(concluded)*

Name Binding support

Index	Name binding template label	Value of object identifier for name binding	Constraints and values	Status	Support	Additional information	Subindex	Operation	Constraints and values	Status	Support	Additional information
19	ncmsPM-transportEntity-Management	{2 14 0 6 13}	Superior class: transportEntity AND SUBCLASSES	o			19.1	Create support		m		
							19.1.1	Create with reference object		–		
							19.1.2	Create with automatic instance naming		–		
							19.2	Delete support		m		
							19.2.1	Delete only if no contained objects		m		
							19.2.2	Delete contained objects		x		
20	ncc-ncmsPM	{2 14 0 6 15}	Superior class: ncmsPM AND SUBCLASSES	o			20.1	Create support		m		
							20.1.1	Create with reference object		m		
							20.1.2	Create with automatic instance naming		–		
							20.2	Delete support		m		
							20.2.1	Delete only if no contained objects		–		
							20.2.2	Delete contained objects		–		
21	nccIVMO-ncmsPM	{2 14 0 6 16}	Superior class: ncmsPM AND SUBCLASSES	o			21.1	Create support		m		
							21.1.1	Create with reference object		m		
							21.1.2	Create with automatic instance naming		–		
							21.2	Delete support		m		
							21.2.1	Delete only if no contained objects		–		
							21.2.2	Delete contained objects		–		

SÉRIES DES RECOMMANDATIONS UIT-T

Série A	Organisation du travail de l'UIT-T
Série B	Moyens d'expression
Série C	Statistiques générales des télécommunications
Série D	Principes généraux de tarification
Série E	Réseau téléphonique et RNIS
Série F	Services de télécommunication non téléphoniques
Série G	Systèmes et supports de transmission
Série H	Transmission des signaux autres que téléphoniques
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Série J	Transmission des signaux radiophoniques et télévisuels
Série K	Protection contre les perturbations
Série L	Construction, installation et protection des câbles et autres éléments des installations extérieures
Série M	Maintenance: systèmes de transmission, de télégraphie, de télécopie, circuits téléphoniques et circuits loués internationaux
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