UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS

UIT-T X.283

(12/97)

SECTEUR DE LA NORMALISATION
DES TÉLÉCOMMUNICATIONS
DE L'UIT

SÉRIE X: RÉSEAUX POUR DONNÉES ET COMMUNICATION ENTRE SYSTÈMES OUVERTS

Interconnexion des systèmes ouverts – Objets gérés des couches

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Technologies de l'information – Eléments d'information de gestion associés à la couche Réseau de l'OSI

Recommandation UIT-T X.283

(Antérieurement Recommandation du CCITT)

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NORME INTERNATIONALE 10733

RECOMMANDATION UIT-T X.283

TECHNOLOGIES DE L'INFORMATION – ELÉMENTS D'INFORMATION DE GESTION ASSOCIÉS À LA COUCHE RÉSEAU DE L'OSI

Résumé

La présente Recommandation | Norme internationale spécifie les informations de gestion associées à la couche Réseau de l'OSI et donne la définition des classes d'objets gérés dans la couche Réseau, la relation entre les objets gérés et les attributs, et entre les opérations exécutées par la couche et les autres objets et attributs de cette couche, et précise les actions effectuées sur les objets gérés de la couche Réseau.

Source

La Recommandation X.283 de l'UIT-T a été approuvée le 12 décembre 1997. Un texte identique est publié comme Norme internationale ISO/CEI 10733.

AVANT-PROPOS

L'UIT (Union internationale des télécommunications) est une institution spécialisée des Nations Unies dans le domaine des télécommunications. L'UIT-T (Secteur de la normalisation des télécommunications) est un organe permanent de l'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.

Dans certains secteurs des technologies de l'information qui correspondent à la sphère de compétence de l'UIT-T, les normes nécessaires se préparent en collaboration avec l'ISO et la CEI.

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.

DROITS DE PROPRIÉTÉ INTELLECTUELLE

L'UIT attire l'attention sur la possibilité que l'application ou la mise en œuvre de la présente Recommandation puisse donner lieu à l'utilisation d'un droit de propriété intellectuelle. L'UIT ne prend pas position en ce qui concerne l'existence, la validité ou l'applicabilité des droits de propriété intellectuelle, qu'ils soient revendiqués par un Membre de l'UIT ou par une tierce partie étrangère à la procédure d'élaboration des Recommandations.

A la date d'approbation de la présente Recommandation, l'UIT n'avait pas été avisée de l'existence d'une propriété intellectuelle protégée par des brevets à acquérir pour mettre en œuvre la présente Recommandation. Toutefois, comme il ne s'agit peut-être pas de renseignements les plus récents, il est vivement recommandé aux responsables de la mise en œuvre de consulter la base de données des brevets du TSB.

TABLE DES MATIÈRES

Introduction

La présente Recommandation | Norme internationale fait partie d'un ensemble de Recommandations et de Normes internationales destinées á faciliter l'interconnexion des systèmes ouverts. Cet ensemble de Recommandations et de Normes internationales traite des services, des protocoles et des informations de gestion nécessaires à la réalisation de ce type d'interconnexion.

La présente Recommandation | Norme internationale, qui définit l'information de gestion de la couche Réseau, fait partie d'un ensemble de Recommandations | Normes internationales apparentées, organisées selon la stratification définie par le *Modèle de référence pour l'interconnexion des systèmes ouverts* de la Rec. UIT-T X.200 | ISO/CEI 7498-1.

La présente version de la Recommandation | Norme internationale reprend la Rec. UIT-T X.283 (1993) et l'ISO/CEI 10733:1993 en y incorporant tous les amendements et les corrigendums techniques.

NORME INTERNATIONALE

RECOMMANDATION UIT-T

TECHNOLOGIES DE L'INFORMATION – ELÉMENTS D'INFORMATION DE GESTION ASSOCIÉS À LA COUCHE RÉSEAU DE L'OSI

1 Domaine d'application

La présente Recommandation | Norme internationale spécifie les informations de gestion relatives aux opérations de la couche OSI Réseau dans un système ouvert. Les détails de mise en œuvre de la gestion de la couche Réseau sont hors du champ d'application de la présente Recommandation | Norme internationale. On définira les attributs d'information de gestion relatifs à la structure de la couche Réseau en spécifiant ce qui suit:

- la définition des classes d'objets gérés conformément aux directives énoncées dans la "*Structure des informations de gestion*" (voir les Recommandations X.720-X.724 et l'ISO/CEI 10165) pour les objets gérés dans la couche Réseau;
- la relation entre les objets gérés et les attributs et les opérations exécutées dans la couche Réseau ainsi qu'entre les autres objets et attributs de cette couche;
- les opérations de type "action" exécutées sur les attributs des objets gérés dans la couche Réseau qui s'appliquent à la gestion des systèmes OSI.

Les Annexes D, E, F et G, qui font partie intégrante de la présente Recommandation | Norme internationale, contiennent les formulaires de déclaration de conformité d'implémentation (ICS) associés aux informations de gestion associées à la couche Réseau.

2 Références normatives

Les Recommandations et Normes internationales suivantes contiennent des dispositions qui, par suite de la référence qui y est faite, constituent des dispositions valables pour la présente Recommandation | Norme internationale. Au moment de la publication, les éditions indiquées étaient en vigueur. Toutes Recommandations et Normes sont sujettes à révision et les parties prenantes aux accords fondés sur la présente Recommandation | Norme internationale sont invitées à rechercher la possibilité d'appliquer les éditions les plus récentes des Recommandations et Normes indiquées ci-après. Les membres de la CEI et de l'ISO possèdent le registre des Normes internationales en vigueur. Le Bureau de la normalisation des télécommunications de l'UIT tient à jour une liste des Recommandations de l'UIT-T en vigueur.

2.1 Recommandations | Normes internationales identiques

- Recommandation UIT-T X.200 (1994) | ISO/CEI 7498-1:1994, *Technologies de l'information – Interconnexion des systèmes ouverts – Modèle de référence de base: le modèle de référence de base.*
- Recommandation UIT-T X.213 (1995) | ISO/CEI 8348:1996, *Technologies de l'information – Interconnexion des systèmes ouverts – Définition du service de réseau*.
- Recommandation UIT-T X.233 (1993) | ISO/CEI 8473-1:1994, *Technologies de l'information – Protocole assurant le service réseau en mode sans connexion de l'interconnexion de systèmes ouverts: spécification du protocole.*
- Recommandation UIT-T X.263 (1995) | ISO/CEI TR 9577:1996, *Technologies de l'information – Identification des protocoles dans la couche Réseau.*
- Recommandation UIT-T X.284 (1997) | ISO/CEI 10737:1998, *Technologies de l'information – Eléments d'information de gestion associés à la couche Transport de l'OSI.*
- Recommandation X.612 du CCITT (1992) | ISO/CEI 9574:1992, *Technologies de l'information – Fourniture du service de réseau en mode connexion OSI pour un terminal en mode paquet connecté à un réseau numérique avec intégration des services.*

- Recommandation X.701 du CCITT (1992) | ISO/CEI 10040:1992, *Technologies de l'information – Interconnexion des systèmes ouverts – Aperçu général de la gestion-systèmes*.
- Recommandation UIT-T X.710 (1997) | ISO/CEI 9595:1998, *Technologies de l'information – Interconnexion des systèmes ouverts – Service commun de transfert d'informations de gestion.*
- Recommandation UIT-T X.711 (1997) | ISO/CEI 9596-1:1998, *Technologies de l'information – Interconnexion des systèmes ouverts – Spécification du protocole commun de transfert d'informations de gestion.*
- Recommandation X.720 du CCITT (1992) | ISO/CEI 10165-1:1993, *Technologies de l'information – Interconnexion des systèmes ouverts – Structure des informations de gestion: modèle d'information de gestion*.
- Recommandation X.721 du CCITT (1992) | ISO/CEI 10165-2:1992, *Technologies de l'information – Interconnexion des systèmes ouverts – Structure des informations de gestion: définition des informations de gestion*.
- Recommandation X.722 du CCITT (1992) | ISO/CEI 10165-4:1992, *Technologies de l'information – Interconnexion des systèmes ouverts – Structure des informations de gestion: directives pour la définition des objets gérés*.
- Recommandation UIT-T X.723 (1993) | ISO/CEI 10165-5:1994, *Technologies de l'information – Interconnexion des systèmes ouverts – Structure des informations de gestion: informations génériques de gestion*.
- Recommandation UIT-T X.724 (1996) | ISO/CEI 10165-6:1997, *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'implémentation associés à la gestion OSI.*
- Recommandation X.730 du CCITT (1992) | ISO/CEI 10164-1:1993, *Technologies de l'information – Interconnexion des systèmes ouverts – Gestion-systèmes: fonction de gestion des objets*.
- Recommandation X.731 du CCITT (1992) | ISO/CEI 10164-2:1992, *Technologies de l'information – Interconnexion des systèmes ouverts – Gestion-systèmes: fonction de gestion d'états*.
- Recommandation X.732 du CCITT (1992) | ISO/CEI 10164-3:1993, *Technologies de l'information – Interconnexion des systèmes ouverts – Gestion-systèmes: attributs relationnels*.
- Recommandation X.733 du CCITT (1992) | ISO/CEI 10164-4:1992, *Technologies de l'information – Interconnexion des systèmes ouverts – Gestion-systèmes: fonction de signalisation des alarmes*.
- Recommandation X.734 du CCITT (1992) | ISO/CEI 10164-5:1993, *Technologies de l'information – Interconnexion des systèmes ouverts – Gestion-systèmes: fonction de gestion des rapports d'événements*.
- Recommandation X.735 du CCITT (1992) | ISO/CEI 10164-6:1993, *Technologies de l'information – Interconnexion des systèmes ouverts – Gestion-systèmes: fonction de commande des registres de consignation*.

2.2 Paires de Recommandations | Normes internationales équivalentes par leur contenu technique

- Recommandation X.208 du CCITT (1988), *Spécification de la syntaxe abstraite numéro un (ASN.1)*.

  ISO/CEI 8824:1990, *Technologies de l'information – Interconnexion de systèmes ouverts – Spécification de la notation de syntaxe abstraite numéro I (ASN.1)*.
- 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.223 (1993), *Utilisation du protocole X.25 pour mettre en œuvre le service réseau en mode connexion de l'interconnexion de systèmes ouverts pour les applications de l'UIT-T*.

  ISO/CEI 8878:1992, *Technologies de l'information – Télécommunications et échange d'informations entre systèmes – Utilisation du protocole X.25 pour fournir le service de réseau OSI en mode connexion*.
- 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*.

– Recommandation 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.*

– Recommandation X.700 du CCITT (1992), *Cadre de gestion pour l'interconnexion de systèmes ouverts pour les applications du CCITT*.

  ISO/CEI 7498-4:1989, *Systèmes de traitement de l'information – Interconnexion de systèmes ouverts – Modèle de référence de base – Partie 4: Cadre général de gestion*.

2.3 Références additionnelles

– Recommandation D.10 du CCITT (1991), *Principes généraux de tarification à appliquer aux services publics internationaux de communication de données*.

– Recommandation D.11 du CCITT (1991), *Principes spéciaux de tarification à appliquer aux services publics internationaux de communication de données à commutation par paquets assurés au moyen de la communication virtuelle*.

– Recommandation D.12 du CCITT (1980), *Unité de mesure pour la taxation du volume d'informations transmises dans le service international de communication de données avec commutation par paquets* .

– Recommandation UIT-T E.164 (1997), *Plan de numérotage des télécommunications publiques internationales.*

– Recommandation UIT-T X.2 (1996), *Services internationaux de transmission de données et fonctionnalités optionnelles offertes aux usagers des réseaux publics pour données et des réseaux numériques à intégration de services*.

– Recommandation UIT-T X.25 (1993), *Interface entre équipement terminal de traitement de données et équipement de terminaison de circuit de données pour terminaux fonctionnant en mode paquet et raccordés par circuit spécialisé à des réseaux publics pour données*.

– Recommandation UIT-T X.121 (1996), *Plan de numérotage international pour les réseaux publics pour données*.

– ISO/CEI 8208:1995, *Technologies de l'information – Communication de données – Protocole X.25 de couche paquet pour terminal de données*.

– ISO 8648:1988, *Systèmes de traitement de l'information – Interconnexion de systèmes ouverts – Organisation interne de la couche Réseau*.

– ISO/CEI 8881:1989, *Systèmes de traitement de l'information – Communication de données – Emploi du protocole X.25 au niveau paquet dans des réseaux locaux* .

– ISO 9542:1988, *Systèmes de traitement de l'information – Téléinformatique – Protocole de routage d'un système d'extrémité à un système intermédiaire à utiliser conjointement avec le protocole fournissant le service de réseau en mode sans connexion (ISO 8473)*.

– ISO/CEI 10030:1990, *Technologies de l'information – Télécommunications et échange d'informations entre systèmes – Protocole d'échange d'informations pour le routage d'un système d'extrémité à utiliser conjointement avec l'ISO/CEI 8878.*

– ISO/CEI 10177:1993, *Technologies de l'information – Télécommunications et échange d'informations entre systèmes – Fourniture du service de la couche interne de réseau en mode connexion par des systèmes intermédiaires utilisant l'ISO/CEI 8208, protocole X.25 de couche paquet.*

– ISO/CEI TR 13532:1995, *Technologies de l'information – Télécommunications et échange d'informations entre systèmes – Combinaisons de protocole pour la fourniture et le support du service de réseau OSI.*

– ISO/CEI 10589:1992, *Technologies de l'information – Communication de données et échange d'informations entre systèmes – Protocole intra-domaine de routage d'un système intermédiaire à un système intermédiaire, à utiliser conjointement avec le protocole fournissant le service de réseau en mode sans connexion (ISO 8473)*.

3 Définitions

Pour les besoins de la présente Recommandation | Norme internationale, les définitions suivantes s'appliquent.

3.1 Modèle de référence de base

La présente Recommandation | Norme internationale utilise les termes suivants, définis dans le *Modèle de référence OSI* (voir la Rec. UIT-T X.200 | ISO/CEI 7498-1):

a) système ouvert;

b) point d'accès au service réseau (NSAP);

c) couche Réseau;

d) protocole de réseau;

e) gestion de couche;

f) gestion-systèmes.

3.2 Modèle d'information

La présente Recommandation | Norme internationale utilise les termes suivants, définis dans la *Structure des informations de gestion: modèle d'information de gestion* (voir la Rec. X.720 du CCITT | ISO/CEI 10165-1):

a) attributs;

b) type d'attribut;

c) confinement;

d) nom distinctif;

e) héritage;

f) objet géré;

g) opérations de gestion;

h) notifications;

i) classe d'objets;

j) nom distinctif relatif;

k) sous-classe;

l) superclasse.

3.3 Directives pour la définition des objets gérés (GDMO, *guidelines for the definition of managed objects*)

La présente Recommandation | Norme internationale utilise les termes suivants, définis dans la *Structure des informations de gestion: directives pour la définition des objets gérés* (voir la Rec. X.722 du CCITT | ISO/CEI 10165-4):

a) définition de la classe d'objets gérés;

b) modèle (classe prédéfinie);

c) paramètre.

3.4 Cadre général de gestion

La présente Recommandation | Norme internationale utilise le terme suivant, qui est défini dans le *Cadre de gestion pour l'interconnexion de systèmes ouverts* (voir la Rec. X.700 du CCITT | ISO/CEI 7498-4):

– information de gestion.

4 Symboles et abréviations

Dans le cadre de la définition des objets gérés et des modèles de directives pour la définition des objets gérés (GDMO), les abréviations suivantes sont couramment utilisées comme élément d'identification documentaire, afin de permettre de s'y reporter:

DMI Définition des informations de gestion (*definition of management information*)
Rec. X.721 du CCITT (1992) | ISO/CEI 10165-2:1992

GMI Informations génériques de gestion (*generic management information*)
Rec. UIT-T X.723 (1993) | ISO/CEI 10165-5:1994

Pour les besoins de la présente Recommandation | Norme internationale, les symboles et abréviations suivants sont utilisés:

BCUG Groupe fermé d'utilisateurs bilatéral (*bilateral closed user group*)

CLNP Protocole de couche Réseau en mode sans connexion (*connectionless-mode network protocol*)

CLNS Service de couche Réseau en mode sans connexion (*connectionless-mode network service*)

CMIP Protocole de transfert d'informations communes de gestion (*common management information protocol*)

CMIS Service de transfert d'informations communes de gestion (*common management information service*)

CONS Service de couche Réseau en mode connexion (*connection-mode network service*)

CUG Groupe fermé d'utilisateurs (*closed user group*)

ES Système d'extrémité (*end system*)

ESH Appel du système d'extrémité (*end system hello*)

ER PDU Unités de données de protocole de signalisation d'erreur (*error report protocol data unit*)

IS Système intermédiaire (*intermediate system*)

ISH Appel du système intermédiaire (*intermediate system hello*)

IVMO Objet géré valeurs initiales (*initial values managed object*)

LCN Numéro de canal logique (*logical channel number*)

MCS Récapitulatif de conformité de gestion (*management conformance summary*)

MICS Déclaration de conformité d'information de gestion (*management information conformance statement*)

MO Objet géré (*managed object*)

MOCS Déclaration de conformité d'objet géré (*managed object conformance statement*)

MRCS Déclaration de conformité de relation gérée (*managed relationship conformance statement*)

NSAP Point d'accès au service de la couche Réseau (*network service access point*)

NSE Elément du service de la couche Réseau (*network service element*)

NUI Identification de l'utilisateur de la couche Réseau (*network user identification*)

PLE Entité de la couche Paquet (*packet layer entity*)

PVC Circuit virtuel permanent (*permanent virtual circuit*)

RD PDU Unité de données de protocole de réacheminement (*redirect protocol data unit*)

RDN Nom distinctif relatif (*relative distinguished name*)

SNDCF Fonction de convergence de sous-réseau dépendant (*subnetwork dependent convergence function*)

SNPA Point de rattachement au sous-réseau (*subnetwork point of attachment*)

VC Communication virtuelle (*virtual call*)

5 Eléments d'information de gestion relatifs à la structure de la couche Réseau

5.1 Hiérarchie des objets gérés

5.1.1 Liste des objets gérés

L'ensemble suivant des classes d'objets gérés est défini pour la couche Réseau de l'OSI:

a) objet géré sous-système de la couche Réseau (voir 5.3);
b) objet géré entité de la couche Réseau (voir 5.4);
c) objet géré point NSAP (voir 5.5);
d) objet géré service de la couche Réseau en mode sans connexion (voir 5.6);
e) objet géré lien (voir 5.7);
f) objet géré service de la couche Réseau en mode connexion (voir 5.8);
g) objet géré connexion de la couche Réseau (voir 5.9);
h) objet géré ETTD d'entité PLE X.25 (voir 5.10.3);
i) objet géré ETCD d'entité PLE X.25 (voir 5.10.4);
j) objet géré valeurs initiales d'ETTD d'entité PLE X.25 (voir 5.10.5);
k) objet géré valeurs initiales d'ETCD d'entité PLE X.25 (voir 5.10.6);
l) objet géré ETTD de circuit virtuel permanent (voir 5.11.4);
m) objet géré ETCD de circuit virtuel permanent (voir 5.11.5);
n) objet géré valeurs initiales de communication virtuelle (voir 5.11.6);
o) objet géré ETTD de communication virtuelle (voir 5.11.7);
p) objet géré ETCD de communication virtuelle (voir 5.11.8);
q) objet géré décomptes selon série de Recommandations D (voir 5.11.9).

Les classes d'objets gérés suivantes ne sont jamais instanciées mais n'existent que pour engendrer des sous-classes:

a) objet géré entité PLE X.25 (voir 5.10.1);
b) objet géré valeurs initiales d'entité PLE X.25 (voir 5.10.2);
c) objet géré circuit virtuel (voir 5.11.1);
d) objet géré ETTD de circuit virtuel (voir 5.11.2);
e) objet géré ETCD de circuit virtuel (voir 5.11.3).

Ces objets gérés représentent l'aspect gestion OSI des éléments d'un système ouvert qui assurent le service de la couche Réseau de l'OSI relevant des opérations de gestion OSI.

5.1.2 Hiérarchie de confinement

La hiérarchie de confinement est décrite à la Figure 1. Les objets gérés qui peuvent avoir des instances multiples sont illustrés par des cases multiples. Ces objets sont définis en détail dans les paragraphes suivants.

L'objet géré (MO) sous-système de la couche Réseau est subordonné à l'objet géré système de la couche Réseau. Les objets gérés entité PLE X.25 et IVMO d'entité PLE X.25 sont des exemples appelés "objets gérés de point SNPA", qui sont des objets gérés spécifiques d'un sous-réseau. On prévoit l'apparition d'un certain nombre de nouveaux objets gérés de type point SNPA, par exemple pour le RNIS.

L'objet géré point SNPA se rapporte au protocole utilisé pour accéder à un sous-réseau. Il existe par exemple un objet géré point SNPA pour chaque entité PLE X.25. L'objet géré service cLNS se rapporte aux fonctions des protocoles de service CLNS (selon la Rec. UIT-T X.233 | ISO/CEI 8473-1, l'ISO 9542 et l'ISO/CEI 10589). Ces fonctions sont applicables au fonctionnement général du protocole dans son ensemble plutôt que dans ses relations avec des points de rattachement individuels. L'objet géré lien se rapporte, pour sa part, aux fonctions de convergence des sous-réseaux (SNDCF). L'objet géré service cONS et ses objets gérés lien associés sont de même applicables aux protocoles associés au service CONS (selon la Rec. UIT-T X.223 | ISO/CEI 8878, la Rec. X.612 du CCITT | ISO/CEI 9574, l'ISO/CEI 10030, l'ISO/CEI 10177, etc.).

Pour les directives concernant les objets gérés contenus dans l'arbre de confinement qui doivent être instanciés pour une mise en œuvre conforme, voir les articles applicables de la déclaration de conformité de cette instance.

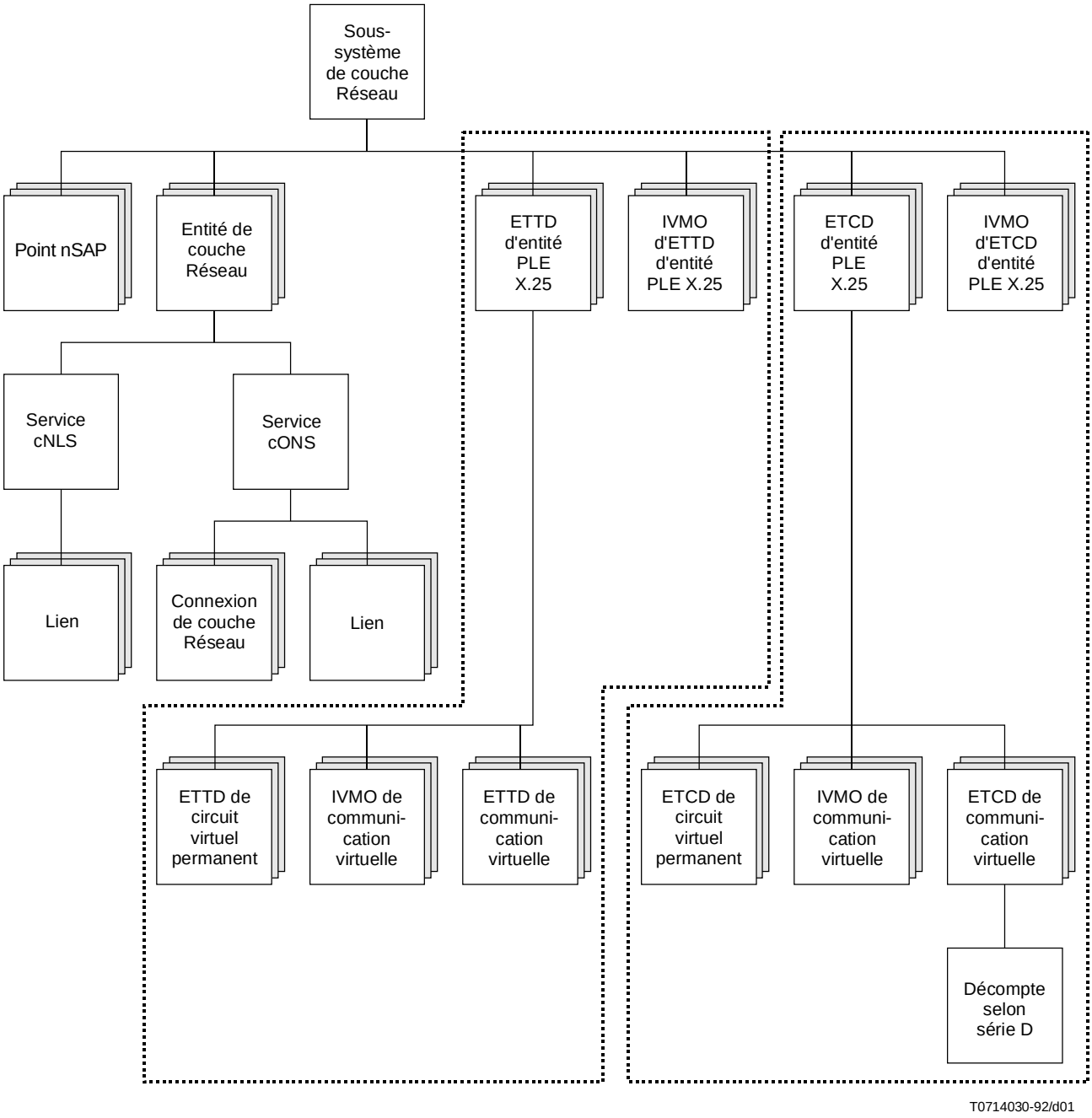

Figure 1 – Hiérarchie de confinement dans la couche Réseau

5.1.3 Relations

5.1.3.1 Généralités

Les paragraphes suivants décrivent chaque type de relation. L'utilisation d'attributs relationnels est illustrée par des exemples dans l'Annexe C.

5.1.3.2 Liens

Il existe une relation entre les objets gérés lien et point SNPA (les attributs sN-ServiceProvider et sN-SAP pointent tous les deux vers le même objet géré). Par exemple, un lien relatif à l'opération de la fonction SNDCF selon la Rec. UIT-T X.233 | ISO/CEI 8473-1 pour le protocole X.25 possède une relation avec un objet géré ETTD d'entité PLE X.25. La relation d'un lien ne correspond qu'à un seul point SNPA. Dans le cas d'une entité de la couche Réseau contenant une seule machine protocole selon la Rec. UIT-T X.233 | ISO/CEI 8473-1 opérant sur un certain nombre

d'entités PLE X.25, il existera donc un certain nombre d'objets gérés lien, reliés chacun à un objet géré ETTD d'entité PLE X.25 différent. Bien qu'un seul lien ne corresponde qu'à un seul point SNPA, il se peut qu'un certain nombre d'autres liens soient en correspondance avec le même point SNPA. Il peut par exemple exister des liens de service cONS et des liens de service cLNS qui utilisent le même ETTD d'entité PLE X.25 et donc le même objet géré point SNPA.

Dans certains cas d'exploitation de la couche Réseau, il peut n'y avoir aucun protocole d'accès spécifique. Par exemple, la Rec. UIT-T X.233 | ISO/CEI 8473-1 contient une fonction SNDCF pour usage direct dans le service de liaison de données. Dans ces cas, le lien possède des relations (attributs sN-ServiceProvider et sN-SAP pointant vers différents objets gérés) non pas avec un point SNPA mais avec des objets gérés appropriés de la couche Liaison de données.

5.1.3.3 Points NSAP

Il existe une relation (par l'attribut localSAPNames) entre un objet géré entité de couche Réseau et un objet géré point nSAP. Chaque objet géré nSAP ne se rapporte qu'à une seule entité de couche Réseau, bien qu'une même entité de la couche Réseau puisse être reliée à plusieurs objets gérés point nSAP.

5.1.3.4 Clients de couche n + 1

L'objet géré point nSAP possède un ensemble de relations (par l'attribut userEntityName) avec les clients de couche n + 1 [normalement l'entité de la couche Transport, qui possède une relation (par l'attribut actualNSAP) avec l'objet géré point nSAP].

5.1.3.5 Services de couche n – 1

Les objets gérés lien comme entité PLE X.25 ont tous les deux des relations (par les attributs sN-ServiceProvider et sN-SAP) avec les objets gérés de la couche Liaison de données appropriés.

5.1.3.6 Connexions

Il existe une relation (par l'attribut underlyingConnectionNames) entre un objet géré connexion de transport et son objet géré sous-jacent, connexion de couche Réseau (s'il en existe un), ainsi qu'entre l'objet géré connexion de couche Réseau et l'objet géré sous-jacent ETTD de communication virtuelle. La relation entre l'objet géré ETTD de communication virtuelle et un objet quelconque géré sous-jacent de couche Liaison de données est implicitement présente en tant que résultat des relations, avec la couche Liaison de données, des objets gérés connexes ETTD d'entité PLE X.25 ou ETCD d'entité PLE X.25, comme décrit plus haut.

Il existe en outre une relation (par l'objet géré point NSAP local) entre l'objet géré connexion de couche Réseau et l'objet géré correspondant point nSAP.

5.1.4 Capacités minimales de filtrage d'événements

Les définitions relatives à la gestion de la couche Réseau, contenues dans la présente Recommandation | Norme internationale, impliquent l'émission fréquente, sinon excessive, de notifications au cours des opérations normales exécutées dans la couche. Ces notifications sont particulièrement utiles à la gestion efficace des dérangements car elles facilitent le repérage et la localisation des situations d'erreur. Afin d'éviter la diffusion trop importante de ces rapports d'événement dans les conditions normales de fonctionnement, il est préconisé de doter le système d'un minimum de fonctionnalités permettant d'effectuer une sélection sur la base:

a) de la classe d'objets gérés d'origine;

b) des valeurs d'identification d'objets contenues dans les champs cause probable et problèmes spécifiques des messages d'alarme relatifs à la communication et sur la base des informations de communication contenues dans le champ type de communication.

5.1.5 Utilisation des champs facultatifs

Lorsque dans la présente Recommandation | Norme internationale il est fait référence à la syntaxe ASN.1 définie dans la Rec. UIT-T X.723 | ISO/CEI 10165-5 ou dans la Rec. X.721 du CCITT | ISO/CEI 10165-2, seuls les champs suivants doivent être employés:

a) champs qui ne sont pas notés comme étant "OPTIONAL" dans la syntaxe ASN.1;

b) champs qui sont notés "OPTIONAL" mais dont l'usage est explicitement prescrit par la présente Recommandation | Norme internationale;

c) champs qui sont notés "OPTIONAL" mais du type ASN.1 "SET OF ManagementExtension".

L'utilisation de tout autre champ est interdite.

5.2 Classes prédéfinies de comportements communs

commonCreationDeletion-B BEHAVIOUR
DEFINED AS
!Managed object class imports the ISO/IEC 10165-2 objectCreation and objectDeletion notifications. Used as follows:
objectCreation - Generated whenever an instance of the managed object class is created. Implementations may optionally include the sourceIndicator parameter in the notification. If creation occurred as a result of internal operation of the resource, the value 'resourceOperation' is used. If creation occurred in response to a management operation, the value 'managementOperation' is used. A value of 'unknown' may be returned if it is not possible to determine the source of the operation. None of the other optional parameters are used.
objectDeletion - Generated whenever an instance of the managed object class is deleted. Implementations may optionally include the sourceIndicator parameter in the notification. If deletion occurred as a result of internal operation of the resource, the value 'resourceOperation' is used. If deletion occurred in response to a management operation, the value 'managementOperation' is used. A value of 'unknown' may be returned if it is not possible to determine the source of the operation. None of the other optional parameters are used.!;

commonStateChange-B BEHAVIOUR
DEFINED AS
!Managed object class imports the ISO/IEC 10165-2 stateChange notification. Used to report the changes to the operationalState attribute, and where present, the administrativeState attribute. A single parameter set is included in the State change definition field. Only the (mandatory) attributeId and (optional) newAttributeValue parameters are used.!;

octetsSentReceivedCounter-B BEHAVIOUR
DEFINED AS
!The octetsSentCounter and octetsReceivedCounter shall count only user data octets in valid data packets. They shall not count user data octets in data packets which are rejected for any reason, nor user data octets in non data packets.!;

successfulConnectionEstablishment-B BEHAVIOUR
DEFINED AS
!This Package imports the communicationsInformation notification from "GMI".
It is used to report the following events.
successfulConnectionEstablishment: Generated when a connection is successfully established. However, the precise synchronization between the notification and the corresponding protocol and service interface interactions is not defined by this Specification.
The value NLM.successfulConnectionEstablishment shall be reported in the informationType field.!;

deactivateConnection-B BEHAVIOUR
DEFINED AS
!The Deactivate action causes the connection to be terminated. The termination should occur as rapidly as practical, but no particular time constraints are implied. Typically, this action simulates a disconnect request received across the service interface. If a more rapid means for terminating the connection exists, then this should be used. The termination shall occur in conformance to the protocol standard. The Managed Object remains in existence after completion of the Deactivate action. It is subsequently deleted when the connection is terminated, in the same way as if the connection has been terminated by other means. A deactivate action may fail (with the ProcessingError response) if it is temporarily not possible to terminate the connection.!;

```
resettingTimer-B BEHAVIOUR
        DEFINED AS
            !This attribute specifies the interval between certain events
            in the operation of the protocol state machine. If the value of this
            attribute is changed to a new value while the protocol state machine
            is in operation, the implementation shall take the necessary steps
            to ensure that for any time interval which was in progress when the
            corresponding attribute was changed, the next expiration of that
            interval takes place no later than the expiration of the interval in
            progress or the specified interval whichever is the sooner. The
            precision with which this time shall be implemented shall be the
            same as that associated with the basic operation of the timer
            attribute.!;
```

5.3 L'objet géré sous-système de couche Réseau

```
-- Objet géré par sous-système de couche Réseau
--
-- Un système comporte exactement un seul objet géré de ce type. Sa fonction est de contenir
-- les objets gérés entité de couche Réseau, point nSAP ainsi que point SNPA comme décrit
-- dans les articles suivants.
--
-- L'objet géré sous-système de couche Réseau ne peut ni être créé ni supprimé
-- explicitement par une opération de gestion. Son existence est inhérente à celle
-- du système.

networkSubsystem MANAGED OBJECT CLASS
        DERIVED FROM "GMI":subsystem;
        CHARACTERIZED BY networkSubsystem-P PACKAGE
            ATTRIBUTES
                "GMI":subsystemId
                    INITIAL VALUE NLM.networkSubsystemId-Value
                    GET;;;

REGISTERED AS { NLM.moi networkSubsystem (1) };

-- Corrélations de noms

networkSubsystem-system NAME BINDING
        SUBORDINATE OBJECT CLASS networkSubsystem AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS "DMI":system AND SUBCLASSES;
            WITH ATTRIBUTE "GMI":subsystemId;
REGISTERED AS { NLM.nboi networkSubsystem-system (1) };
```

5.4 L'objet géré entité de couche Réseau

```
-- Il peut exister plusieurs instances de cet objet géré dans un système.
-- Sa définition permet de le supprimer et de le créer explicitement au moyen d'une
-- opération de gestion; ou de le créer et de le supprimer automatiquement dans le
-- cadre d'une opération du système.

networkEntity MANAGED OBJECT CLASS
        DERIVED FROM "GMI":communicationsEntity;
        CHARACTERIZED BY networkEntity-P PACKAGE
            BEHAVIOUR commonCreationDeletion-B;
            ATTRIBUTES
                networkEntityTitles
                    GET-REPLACE
                    ADD-REMOVE,
                systemTypes GET;
            NOTIFICATIONS
                "DMI":objectDeletion,
                "DMI":objectCreation;
            ;;
REGISTERED AS { NLM.moi networkEntity (22) };

-- Corrélations de noms
```

```
networkEntity-networkSubsystem-Automatic NAME BINDING
        SUBORDINATE OBJECT CLASS networkEntity AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS networkSubsystem AND SUBCLASSES;
            WITH ATTRIBUTE "GMI":communicationsEntityId;
        BEHAVIOUR networkEntity-networkSubsystem-Automatic-B BEHAVIOUR
            DEFINED AS !This name binding shall be used when the
                networkEntity MO is created automatically by the operation
                of the system. The details of these operations are outside
                the scope of this Specification.!;;
REGISTERED AS { NLM.nboi networkEntity-networkSubsystem-Automatic (27) };

networkEntity-networkSubsystem-Management NAME BINDING
        SUBORDINATE OBJECT CLASS networkEntity AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS networkSubsystem AND SUBCLASSES;
            WITH ATTRIBUTE "GMI":communicationsEntityId;
        BEHAVIOUR networkEntity-networkSubsystem-Management-B BEHAVIOUR
            DEFINED AS !This name binding shall be used when the
                networkEntity MO is created automatically by system management.!;;
        CREATE;
        DELETE;
REGISTERED AS { NLM.nboi networkEntity-networkSubsystem-Management (28) };

-- Attributs

networkEntityTitles ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.NAddresses;
        MATCHES FOR EQUALITY;
        BEHAVIOUR networkEntityTitles-B BEHAVIOUR
            DEFINED AS !The set of Network Entity Titles
                (having the same abstract syntax as an NSAP address),
                which unambiguously identify the Network Entity in
                an End or Intermediate System. The value may be entered by a system
                management operation or it may be derived by some local means, for example
                by autoconfiguration.!;;
REGISTERED AS { NLM.aoi networkEntityTitles (3) };

systemTypes ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.SystemTypes;
        MATCHES FOR EQUALITY;
        BEHAVIOUR systemTypes-B BEHAVIOUR
            DEFINED AS !The set of system roles supported by this Network Entity.
                This may be End System, Intermediate System or both. The actual
                role in which a particular instance of the protocol machine
                is operating is determined by the operationalSystemType attribute
                of the cLNS or cONS MO.!;;
REGISTERED AS { NLM.aoi systemTypes (108) };
```

5.5 L'objet géré point NSAP

```
-- Il existe un seul objet géré point nSAP pour chaque ensemble de points NSAP supporté
-- par le sous-système de couche Réseau associé à un client donné de la couche Transport.
-- Chaque objet géré point NSAP correspond à un ensemble d'un ou de plusieurs points
-- NSAP supporté(s) par le sous-système de couche Réseau.
--
-- Il n'existe pas plus d'un seul client de la couche Transport associé à un même objet géré
-- point nSAP mais il peut exister plus d'un seul objet géré point nSAP (avec les ensembles
-- correspondants de points NSAP) associé à un même client de la couche Transport.
-- La définition de cet objet permet de le créer et de le supprimer explicitement au moyen
-- d'une opération de gestion ou de le créer et de le supprimer automatiquement dans le
-- cadre d'une opération du système.

nSAP MANAGED OBJECT CLASS
        DERIVED FROM "GMI":sap2;
        CHARACTERIZED BY nSAP-P PACKAGE
            BEHAVIOUR commonCreationDeletion-B;
```

```
            ATTRIBUTES
                "GMI":sap2Address
                    INITIAL VALUE DERIVATION RULE nAddressesIV-B
                    GET;
            NOTIFICATIONS
                "DMI":objectDeletion,
                "DMI":objectCreation;
        ;;
REGISTERED AS { NLM.moi nSAP (4) };


-- Comportements

nAddressesIV-B BEHAVIOUR
        DEFINED AS !If the package is created using the nSAP-networkSubsystem-Automatic
            name binding the initial value of this attribute is not constrained by this
            Specification. However, if the package is created using the
            nSAP-networkSubsystem-Management name binding the initial value shall
            be specified in the CMIP create.!;

-- Corrélations de noms

nSAP-networkSubsystem-Automatic NAME BINDING
        SUBORDINATE OBJECT CLASS nSAP AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS networkSubsystem AND SUBCLASSES;
            WITH ATTRIBUTE "GMI":sapId;
        BEHAVIOUR nSAP-networkSubsystem-Automatic-B BEHAVIOUR
            DEFINED AS !This name binding shall be used when the nSAP MO is created automatically by the
                operation of the network entity. For example, by the use of autoconfiguration or dynamic
                NSAP Address assignment techniques. The details of the operation of these techniques are
                outside the scope of this Specification.!;;
REGISTERED AS { NLM.nboi nSAP-networkSubsystem-Automatic (4) };


nSAP-networkSubsystem-Management NAME BINDING
        SUBORDINATE OBJECT CLASS nSAP AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS networkSubsystem AND SUBCLASSES;
            WITH ATTRIBUTE "GMI":sapId;
        BEHAVIOUR nSAP-networkSubsystem-Management-B BEHAVIOUR
            DEFINED AS !This name binding shall be used when the nSAP MO is created by system
                management.
                The value of the sap2Address attribute shall be specified in the CMIP create.!;;
        CREATE;
        DELETE;
REGISTERED AS { NLM.nboi nSAP-networkSubsystem-Management (5) };
```

5.6 L'objet géré service de couche Réseau en mode sans connexion

```
-- Il n'existe pas plus d'un seul de ces objets gérés par entité de couche Réseau.
-- La définition de ce type d'objet permet de le créer et de le supprimer explicitement
-- au moyen d'une opération de gestion mais, dans certains systèmes, il existera de façon
-- intrinsèque et aucune création ou suppression par opération de gestion ne sera possible.
-- Des corrélations de noms sont définies pour ces deux cas.
--
-- Lorsque la machine protocole est exploitable, le paramètre operationalState
-- doit avoir la valeur "enabled"; sinon, il doit avoir la valeur "disabled".
-- Les transitions du paramètre operationalState doivent être signalées au moyen
-- de la notification stateChange. Un objet géré service cLNS peut être créé
-- dans l'état d'exploitation "enabled".

cLNS MANAGED OBJECT CLASS
        DERIVED FROM "GMI":clProtocolMachine;
        CHARACTERIZED BY cLNS-P PACKAGE
            BEHAVIOUR commonStateChange-B,
                commonCreationDeletion-B;
```

```
            ATTRIBUTES
                "DMI":administrativeState GET-REPLACE,
                "GMI":clProtocolMachineId
                    INITIAL VALUE NLM.cLNSId-Value
                    GET,
                supportedProtocols GET,
                operationalSystemType
                    INITIAL VALUE DERIVATION RULE operationalSystemTypeIV-B
                    GET;
            ATTRIBUTE GROUPS
                "DMI":state
                    "DMI":administrativeState
                    "DMI":operationalState;
            ACTIONS
                "GMI":activate,
                "GMI":deactivate;
            NOTIFICATIONS
                "DMI":objectCreation,
                "DMI":objectDeletion,
                "DMI":stateChange;
            ;;
        CONDITIONAL PACKAGES
            cLNS8473-P
                PRESENT IF !The protocol defined in ITU-T Rec. X.233 |ISO/IEC 8473-1 is used to implement
                    the CLNS!,
            cLNSChecksum-P
                PRESENT IF !The ITU-T Rec. X.233 |ISO/IEC 8473-1 Generate Checksum option is
                     implemented!,
-- Les lots suivants sont associés à l'ISO/CEI 10589
            "ISO/IEC 10589":cLNSISISBasic-P
                PRESENT IF !The system is an ISO 10589 IS!,
            "ISO/IEC 10589":cLNSISISAuthentication-P
                PRESENT IF !The system is an ISO 10589 IS
                    and the authentication procedures are implemented!,
            "ISO/IEC 10589":cLNSISISPartitionRepair-P
                PRESENT IF !The system is an ISO 10589 Level 2 IS
                    and the partition repair procedures are implemented!,
            "ISO/IEC 10589":cLNSISISLevel2-P
                PRESENT IF !The system is an ISO 10589 Level 2 IS!,
            "ISO/IEC 10589":cLNSISISLevel2Authentication-P
                PRESENT IF !The system is an ISO 10589 Level 2 IS
                    and the authentication procedures are implemented!;
REGISTERED AS { NLM.moi cLNS (21) };

-- Lots prédéfinis

cLNS8473-P PACKAGE
        BEHAVIOUR cLNS8473-P-B BEHAVIOUR
            DEFINED AS !Present when ITU-T Rec. X.233 |ISO/IEC 8473-1 is used to provide the CLNS.!;,
            cLNS8473PImportedNotifications-B,
            cLNS8473PImportedCounters-B;
        ATTRIBUTES
            "DMI":octetsSentCounter GET,
            "DMI":octetsReceivedCounter GET,
            segmentsReceived GET,
            segmentsSent GET,
            segmentsDiscarded GET,
            assemblingSegmentsDiscarded GET,
            errorReportsReceived GET,
            pDUDiscards GET,
            congestionDiscards GET,
            maximumLifetime GET-REPLACE;
        ATTRIBUTE GROUPS
            "GMI":counters
                "DMI":octetsSentCounter
                "DMI":octetsReceivedCounter
                segmentsReceived
                segmentsDiscarded
```

```
                assemblingSegmentsDiscarded
                errorReportsReceived
                pDUDiscards
                congestionDiscards;
        NOTIFICATIONS
            "DMI":communicationsAlarm
                notificationPDUHeader;
REGISTERED AS { NLM.poi cLNS8473-P (20) };

cLNSChecksum-P PACKAGE
        BEHAVIOUR cLNSChecksum-P-B BEHAVIOUR
            DEFINED AS !When present checksum generation is controlled by
                the enableChecksum attribute.!;;
        ATTRIBUTES
            enableChecksum REPLACE-WITH-DEFAULT
                DEFAULT VALUE NLM.false
                GET-REPLACE;
REGISTERED AS { NLM.poi cLNSChecksum-P (1) };

-- Comportements

cLNS8473PImportedCounters-B BEHAVIOUR
        DEFINED AS !The cLNS8473-P package imports octetsSentCounter and octetsReceivedCounter from
            ISO/IEC 10165-2. They are used to count the number of octets of data transmitted or received by
            the local network entity in ITU-T Rec. X.233 | ISO/IEC 8473-1 Data PDUs. (i.e. those which which
            have a source or
            destination N-Address, respectively, which corresponds to that one of those of the local network
            entity.)!;

cLNS8473PImportedNotifications-B BEHAVIOUR
        DEFINED AS !The cLNS8473-P package imports the communicationsAlarm notification from
            Rec. 721 | ISO/IEC 10165-2.
            It is used to report the following cLNS managed object events.
            pDUDiscard:
                Generated when a data NPDU is discarded due
                to any of the reasons specified in ITU-T Rec. X.233 | ISO/IEC 8473-1 Table 7, with
                the exception of 'PDU Discarded due to Congestion' The header of the PDU in error
                shall be reported as a parameter in the additionalInformation field of the
                communicationsAlarm, using the notificationPDUHeader parameters.
                The significance sub-parameter of each item of additionalInformation
                shall be set to the value 'False' (i.e. not significant) so that a managing
                system receiving the event report will be less likely to reject it.
                The value NLM.pDUDiscard and that corresponding to the Reason For Discard
                shall both be reported in the specificProblems parameter.
                The probableCause shall be set to NLM.communicationsProtocolError.
                The perceivedSeverity shall be set to 'Minor'. A subsequent communicationsAlarm
                with a perceivedSeverity value of 'Cleared' shall not be generated.
                No other fields or parameters shall be used, with the exception of further
                parameters in the AdditionalInformation field.
                A PDU which does not contain one of the protocol identifiers defined
                in ITU-T Rec. X.233 | ISO/IEC 8473-1 shall not cause this event.
                A PDU with a protocol ID 1000 0001 shall not cause this event if it does not also contain
                the Version/Protocol Identifier extension in 7.2.4 of ITU-T Rec. X.233 | ISO/IEC 8473-1.
                If an error report PDU is generated, the PDU header and Discard Reason in the error
                report shall be the same as those in the corresponding notification.!
        ;

operationalSystemTypeIV-B BEHAVIOUR
        DEFINED AS !If the MO is created by management operation (using the
            cLNS-networkEntity-Management or
            cONS-networkEntity-Management name binding), the initial value of the
            operationalSystemType attribute shall be specified in the CMIP create. Otherwise,
            the value shall be determined in an implementation specific manner. The value
            shall be one of those present in the systemTypes attribute of the
            superior Network Entity MO.!;

-- Corrélations de noms

cLNS-networkEntity-Management NAME BINDING
        SUBORDINATE OBJECT CLASS cLNS AND SUBCLASSES;
```

```
        NAMED BY
            SUPERIOR OBJECT CLASS networkEntity AND SUBCLASSES;
            WITH ATTRIBUTE "GMI":clProtocolMachineId;
        BEHAVIOUR cLNS-networkEntity-Management-B BEHAVIOUR
            DEFINED AS !The name binding that applies when the cLNS managed object
                can be created and deleted by management.!;;
        CREATE;
        DELETE ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS { NLM.nboi cLNS-networkEntity-Management (3) };

cLNS-networkEntity-Automatic NAME BINDING
        SUBORDINATE OBJECT CLASS cLNS AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS networkEntity AND SUBCLASSES;
            WITH ATTRIBUTE "GMI":clProtocolMachineId;
        BEHAVIOUR cLNS-networkEntity-Automatic-B BEHAVIOUR
            DEFINED AS !The name binding that applies when the cLNS managed object
                cannot be created or deleted by management.!;;
REGISTERED AS { NLM.nboi cLNS-networkEntity-Automatic (16) };

-- Attributs

assemblingSegmentsDiscarded ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR assemblingSegmentsDiscarded-B BEHAVIOUR
            DEFINED AS !Counter of segments discarded due to reassembly time expiry.
                This is the number of data and error report NPDUs discarded
                due to reassembly time expiry.!;;
REGISTERED AS { NLM.aoi assemblingSegmentsDiscarded (8) };

congestionDiscards ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR congestionDiscards-B BEHAVIOUR
            DEFINED AS !Counter of PDUs discarded due to congestion.
                This is the number of data or error report PDUs discarded due to congestion.
                This counter is incremented irrespective of the setting of the Error Report bit in the
                received PDU.!;;
REGISTERED AS { NLM.aoi congestionDiscards (11) };

enableChecksum ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR enableChecksum-B BEHAVIOUR
            DEFINED AS !When True, the generation of checksums is enabled.!;;
REGISTERED AS { NLM.aoi enableChecksum (4) };

errorReportsReceived ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR errorReportsReceived-B BEHAVIOUR
            DEFINED AS !Counter of received error reports.
                This is the number of error report NPDUs received which were addressed to the local
                network entity.!;;
REGISTERED AS { NLM.aoi errorReportsReceived (9) };

maximumLifetime ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Lifetime;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR maximumLifetime-B BEHAVIOUR
            DEFINED AS !Maximum PDU lifetime (in half seconds).
                This attribute controls the maximum value (in half seconds) which may be placed
                in the lifetime field of any ITU-T Rec. X.233 | ISO/IEC 8473-1 data or error report PDU
                generated by the local network entity.
                It does not affect the lifetime field of any PDUs not generated by this network entity,
                for example those relayed by this system acting as an Intermediate System. PDUs generated
                by the local network entity are permitted to have a lower value of lifetime field than this
                attribute, but shall not have a larger value. The means by which the value of the lifetime field
                is determined for an individual PDU is outside the scope of this Specification, provided that it
                meets the above constraints.!;;
REGISTERED AS { NLM.aoi maximumLifetime (102) };
```

```
operationalSystemType ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.SystemType;
        MATCHES FOR EQUALITY;
        BEHAVIOUR operationalSystemType-B BEHAVIOUR
            DEFINED AS !The system role in which this instance is operating.
            A value of ES indicates that the system
            shall perform no forwarding operations upon non-local PDUs.
            A value of IS indicates that the system is permitted to perform
            forwarding operations, but the decision to forward individual PDUs,
            or not to forward them, shall be taken on the basis of the available
            routing information.!;;
REGISTERED AS { NLM.aoi operationalSystemType (109) };

pDUDiscards ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR pDUDiscards-B BEHAVIOUR
            DEFINED AS !Counter of PDUs discarded (except for congestion).
                This is the number of data or error report PDUs discarded for any of the reasons
                specified in ITU-T Rec. X.233 | ISO/IEC 8473-1 Table 7 with the exception of 'PDU discarded
                due to congestion'.
                This counter is incremented irrespective of the setting of the Error Report bit in the
                received PDU.!;;
                received PDU.!;;
                -- NOTE – Ce compteur cumule donc le nombre de notifications de type communicationsAlarm
                -- contenant une valeur specificProblem de l'attribut pDUDiscard
                -- (contrairement aux événements du protocole CMIP, où cette valeur peut être supprimée)
                -- comme prescrit par le paragraphe 9.8.5 (document N4852 SC 21)
                -- conformément aux directives pour la définition des objets gérés (GDMO).
REGISTERED AS { NLM.aoi pDUDiscards (10) };

segmentsDiscarded ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR segmentsDiscarded-B BEHAVIOUR
            DEFINED AS !Counter of segments discarded.
                This is the number of data and error report NPDUs discarded
                without being delivered to a Network Service user or forwarded. This includes
                segments discarded for any reason except reassembly time expiry.!;;
REGISTERED AS { NLM.aoi segmentsDiscarded (7) };

segmentsReceived ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR segmentsReceived-B BEHAVIOUR
            DEFINED AS !Counter of segments received.
                This is the number of data and error report NPDUs received
                prior to reassembly, including those which may subsequently be discarded.!;;
REGISTERED AS { NLM.aoi segmentsReceived (6) };

segmentsSent ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR segmentsSent-B BEHAVIOUR
            DEFINED AS !Counter of segments Sent.
                This is the number of data and error report NPDUs sent
                after segmentation processing occurs.!;;
REGISTERED AS { NLM.aoi segmentsSent (118) };

supportedProtocols ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.SupportedProtocols;
        MATCHES FOR EQUALITY, SET-COMPARISON, SET-INTERSECTION;
        BEHAVIOUR supportedProtocols-B BEHAVIOUR
            DEFINED AS !The set of Connectionless Network protocols supported
                by this instance of the cLNS protocol machine, expressed except
                where otherwise indicated (for example because there are more
                than one protocol described in a single International Standard)
                as the registered object identifiers of the relevant
                International Standard. The operation of a particular protocol
                over a particular linkage is determined by the linkage
                operationalProtocols attribute. The value of the
                supportedProtocols attribute is determined by the implementation.!;;
REGISTERED AS { NLM.aoi supportedProtocols (110) };

-- Paramètres
```

```
notificationPDUHeader PARAMETER
        CONTEXT EVENT-INFO;
        WITH SYNTAX NLM.OctetString;
        BEHAVIOUR notificationPDUHeader-B BEHAVIOUR
            DEFINED AS !The header of the data NPDU header which caused this event.!;;
REGISTERED AS { NLM.proi notificationPDUHeader (1) };
```

5.7 L'objet géré lien

```
-- Objet géré lien
--
-- Il existe un seul de ce type d'objet géré par fourniture distincte du service sous-jacent
-- à la machine protocole supérieure. Sa définition permet de le créer et de le supprimer
-- explicitement au moyen d'une opération de gestion. Mais dans certains systèmes
-- il aura une existence intrinsèque et aucune opération de gestion ne pourra ni le créer
-- ni le supprimer. Des corrélations de noms sont définies pour ces deux cas.
--
-- Lorsque le lien peut être mis en œuvre, l'attribut operationalState doit avoir la valeur
-- "activé"; sinon, il doit avoir la valeur "inactivé". Les transitions d'état de l'attribut
-- operationalState doivent être signalées au moyen de la notification stateChange.
-- Un objet géré lien peut être créé dans l'état opérationnel "activé".

linkage MANAGED OBJECT CLASS
        DERIVED FROM "DMI":top;
        CHARACTERIZED BY linkage-P PACKAGE
            BEHAVIOUR commonCreationDeletion-B,
                      commonStateChange-B;
            ATTRIBUTES
                linkageId GET,
                "DMI":operationalState GET,
                "DMI":administrativeState GET-REPLACE,
                sN-ServiceProvider
                    INITIAL VALUE DERIVATION RULE sN-ServiceProviderIV-B
                    GET,
                sN-SAP GET,
                operationalProtocols
                    INITIAL VALUE DERIVATION RULE operationalProtocolIV-B
                    GET;
            ATTRIBUTE GROUPS
                "DMI":state
                    "DMI":administrativeState
                    "DMI":operationalState;
            ACTIONS
                "GMI":activate,
                "GMI":deactivate;
            NOTIFICATIONS
                "DMI":stateChange,
                "DMI":objectCreation,
                "DMI":objectDeletion;
            ;;
        CONDITIONAL PACKAGES
            linkage-ISO9542IS-P
                PRESENT IF !support for ISO 9542 operating as an IS!,
            linkage-ISO9542ES-P
                PRESENT IF !support for ISO 9542 operating as an ES!,
            linkage-ISO9542Checksum-P
                PRESENT IF !support for ISO 9542 PDU Header Checksum Generation function!,
            linkageInitialMinimumTimer-P
                PRESENT IF !support for the initial minimum timer attribute of the ITU-T Rec. X.233 |
                    ISO/IEC 8473-1SNDCF when operating ITU-T Rec. X.233 | ISO/IEC 8473-1 over
                    an ISO/IEC 8208 or ITU-T Rec.X.25 or CO Datalink Service!,
            linkageReserveTimer-P
                PRESENT IF !support for the reserve timer attribute of the ITU-T Rec. X.233 | ISO/IEC 8473-1
                SNDCF when operating ITU-T Rec. X.233 | ISO/IEC 8473-1 over an ISO/IEC 8208 or ITU-T
                Rec. X.25 or CO Datalink Service!,
            linkageIdleTimer-P
```

```
                    PRESENT IF !support for the idle timer attribute of the ITU-T Rec. X.233 | ISO/IEC 8473-1
                    SNDCF when operating ITU-T Rec. X.233 | ISO/IEC 8473-1 over an ISO/IEC 8208 or ITU-T Rec.
                    X.25 or CO Datalink Service!,
               linkage-ISO8473-ISO8208SNDCF-P
                    PRESENT IF !operating ITU-T Rec. X.233 | ISO/IEC 8473-1 over ISO/IEC 8208 or
                    ITU-T Rec. X.25!,
               linkageCODLService-P
                    PRESENT IF !operating ITU-T Rec. X.233 | ISO/IEC 8473-1 over the CO Datalink Service!,
-- Les lots prédéfinis suivants sont associés à l'ISO/CEI 10589
               "ISO/IEC 10589":linkageISISBasic-P
                    PRESENT IF !the system is an ISO 10589 IS!,
               "ISO/IEC 10589":linkageISISAuthentication-P
                    PRESENT IF !the authentication procedures are implemented
                         on an ISO 10589 IS!,
               "ISO/IEC 10589":linkageISISBroadcast-P
                    PRESENT IF !the linkage is a broadcast circuit
                         on an ISO 10589 IS!,
               "ISO/IEC 10589":linkageISISDACallEstablishmentMetricIncrement-P
                    PRESENT IF !the linkage is a DA Circuit and support is implemented for
                         call establishment metric increment values greater than zero on an
                         ISO/IEC 10589 IS!,
               "ISO/IEC 10589":linkageISISPtToPt-P
                    PRESENT IF !the linkage is a point to point circuit
                         on an ISO 10589 IS!,
               "ISO/IEC 10589":linkageISISStatic-P
                    PRESENT IF !the linkage is an X.25 static circuit (IN or OUT)
                         on an ISO 10589 IS!,
               "ISO/IEC 10589":linkageISISLevel2-P
                    PRESENT IF !the system is an ISO/IEC 10589 level 2 IS!,
               "ISO/IEC 10589":linkageISISlevel2Broadcast-P
                    PRESENT IF !the linkage is a broadcast circuit on an ISO 10589 level 2 IS!;
REGISTERED AS { NLM.moi linkage (23) };

-- Lots prédéfinis

linkageCODLService-P PACKAGE
          BEHAVIOUR linkageCODLService-P-B BEHAVIOUR
               DEFINED AS !Controls the operation of CO Datalink as an SNDCF for ITU-T Rec. X.233 | ISO/IEC
                    8473-1.!;;
          ATTRIBUTES
               callsPlaced GET,
               callsFailed GET;
          ATTRIBUTE GROUPS
               "GMI":counters
                    callsPlaced
                    callsFailed;
REGISTERED AS { NLM.poi linkageCODLService-P (9) };

linkageIdleTimer-P PACKAGE
          BEHAVIOUR linkageIdleTimer-P-B BEHAVIOUR
               DEFINED AS !Controls the ability, when implemented, of an ISO/IEC 8208 or ITU-T Rec. X.25 or CO
                    Datalink SNDCF
                    for ITU-T Rec. X.233 | ISO/IEC 8473-1 to close an established Virtual Call when it is idle.!;;
          ATTRIBUTES
               idleTimer REPLACE-WITH-DEFAULT
                    GET-REPLACE;
REGISTERED AS { NLM.poi linkageIdleTimer-P (5) };

linkageInitialMinimumTimer-P PACKAGE
          BEHAVIOUR linkageInitialMinimumTimer-P-B BEHAVIOUR
               DEFINED AS !Controls the ability, when implemented, of an ISO/IEC 8208 or ITU-T Rec. X.25 or CO
                    Datalink SNDCF for ITU-T Rec. X.233 | ISO/IEC 8473-1 to close an established Virtual Call
                    when it is idle, but only after a minimum time after its establishment.!;;
          ATTRIBUTES
               initialMinimumTimer REPLACE-WITH-DEFAULT
                    GET-REPLACE;
REGISTERED AS { NLM.poi linkageInitialMinimumTimer-P (7) };
```

```
linkage-ISO8473-ISO8208SNDCF-P  PACKAGE
        BEHAVIOUR linkage-ISO8473-ISO8208SNDCF-P-B BEHAVIOUR
            DEFINED AS !Controls the operation of ISO/IEC 8208 or ITU-T Rec. X.25 as an SNDCF for
                ITU-T Rec. X.233 | ISO/IEC 8473-1.!;;
        ATTRIBUTES
            callsPlaced GET,
            callsFailed GET;
        ATTRIBUTE GROUPS
            "GMI":counters
                callsPlaced
                callsFailed;
REGISTERED AS { NLM.poi linkage-ISO8473-ISO8208SNDCF-P (4) };

linkage-ISO9542Checksum-P PACKAGE
        BEHAVIOUR linkage-ISO9542Checksum-P-B BEHAVIOUR
            DEFINED AS !When present, checksum generation is controlled
                by the enableChecksum attribute.!;;
        ATTRIBUTES
            enableChecksum REPLACE-WITH-DEFAULT
                DEFAULT VALUE NLM.false
                GET-REPLACE;
REGISTERED AS { NLM.poi linkage-ISO9542Checksum-P(17) };

linkage-ISO9542ES-P PACKAGE
        BEHAVIOUR
            linkage-ISO9542ES-P-B BEHAVIOUR
                DEFINED AS !Controls the operation of ISO 9542 on an End System.!;,
            linkage-ISO9542ImportedAlarmNotifications-B,
            linkage-ISO9542ISReachabilityChange-B,
            linkage-ISO9542ESReachabilityChange-B;
        ATTRIBUTES
            iSO9542OperationalSubsets GET-REPLACE,
            holdingTimerMultiplier
                REPLACE-WITH-DEFAULT
                DEFAULT VALUE NLM.holdingTimerMultiplierDefault
                PERMITTED VALUES NLM.HoldingTimerMultiplierPermitted
                REQUIRED VALUES NLM.HoldingTimerMultiplierRequired
                GET-REPLACE,
            manualISSNPAAddress REPLACE-WITH-DEFAULT
                GET-REPLACE ADD-REMOVE,
            defaultESConfigTimer REPLACE-WITH-DEFAULT
                GET-REPLACE,
            activeESConfigTimer GET,
            iSReachabilityChanges GET,
            invalid9542PDUs GET;
        ATTRIBUTE GROUPS
            "GMI":counters
                iSReachabilityChanges
                invalid9542PDUs;
        NOTIFICATIONS
            "DMI":communicationsAlarm,
            "GMI":communicationsInformation
                reachabilityChange;
REGISTERED AS { NLM.poi linkage-ISO9542ES-P (21) };

linkage-ISO9542IS-P PACKAGE
        BEHAVIOUR linkage-ISO9542IS-P-B BEHAVIOUR
            DEFINED AS !Controls the operation of ISO 9542 on an Intermediate System.!;,
            linkage-ISO9542ImportedAlarmNotifications-B,
            linkage-ISO9542ISReachabilityChange-B,
            linkage-ISO9542ESReachabilityChange-B;
        ATTRIBUTES
            iSO9542OperationalSubsets GET-REPLACE,
            holdingTimerMultiplier
            REPLACE-WITH-DEFAULT
                DEFAULT VALUE NLM.holdingTimerMultiplierDefault
                PERMITTED VALUES NLM.HoldingTimerMultiplierPermitted
                REQUIRED VALUES NLM.HoldingTimerMultiplierRequired
                GET-REPLACE,
```

```
            iSConfigurationTimer REPLACE-WITH-DEFAULT
                DEFAULT VALUE NLM.iSConfigurationTimerDefault
                GET-REPLACE,
            suggestedESConfigurationTimer REPLACE-WITH-DEFAULT
                DEFAULT VALUE NLM.suggestedESConfigurationTimerDefault
                GET-REPLACE,
            redirectHoldingTime
                REPLACE-WITH-DEFAULT
                DEFAULT VALUE NLM.redirectHoldingTime-Default
                PERMITTED VALUES NLM.RedirectHoldingTime-Permitted
                GET-REPLACE,
            eSReachabilityChanges GET,
            invalid9542PDUs GET;
        ATTRIBUTE GROUPS
            "GMI":counters
                eSReachabilityChanges
                invalid9542PDUs;
        NOTIFICATIONS
            "DMI":communicationsAlarm,
            "GMI":communicationsInformation
                reachabilityChange;
REGISTERED AS { NLM.poi linkage-ISO9542IS-P (22) };

linkageReserveTimer-P PACKAGE
        BEHAVIOUR linkageReserveTimer-P-B BEHAVIOUR
            DEFINED AS !Controls the ability, when implemented, of an ISO/IEC 8208 or ITU-T Rec. X.25 or
            CO Datalink SNDCF
                for ITU-T Rec. X.233 | ISO/IEC 8473-1 to close an established Virtual Call when it is idle, but
                retain resources for its
                re-establishment.!;;
        ATTRIBUTES
            reserveTimer REPLACE-WITH-DEFAULT
                GET-REPLACE;
REGISTERED AS { NLM.poi linkageReserveTimer-P (6) };

-- Comportements

linkage-ISO9542ISReachabilityChange-B BEHAVIOUR
        DEFINED AS
            !This package imports the communicationsInformation notification
            from Rec. X.723 | ISO/IEC 10165-5.
            It is used to report the following events.
            iSReachabilityChange:
                Generated when an ES or IS detects a change
                in the reachability of a neighbouring IS.
                The value NLM.iSReachabilityChange shall be reported in the
                informationType field.
                The new State, NET of the IS concerned, snpaAddress (where
                available) and the reason for the change shall be reported
                in the informationData field using the reachabilityChange
                PARAMETER.!;

linkage-ISO9542ESReachabilityChange-B BEHAVIOUR
        DEFINED AS
            !This package imports the communicationsInformation notification
            from Rec. X.723 | ISO/IEC 10165-5.
            It is used to report the following events.

            eSReachabilityChange:

                Generated when an ES or IS detects a change
                in the reachability of a neighboring ES.
                The value NLM.eSReachabilityChange shall be reported in the
                informationType field.
                The new State, set of NSAPAddresses of the IS concerned,
                the snpaAddress (where available) and the reason for
                the change shall be reported in the informationData field
                using the reachabilityChange PARAMETER.!;
```

```
linkage-ISO9542ImportedAlarmNotifications-B BEHAVIOUR
        DEFINED AS !This package imports the communicationsAlarm notification
            from Rec. X.721 (1992) | ISO/IEC 10165-2.
            It is used to report the following events.

            invalid9542PDU:

                Generated when an ISO 9542 PDU is received which is discarded
                as result of the PDU Header Error Detection or Protocol Error Processing Functions
                specified in ISO 9542.
                The significance sub-parameter of each item of additionalInformation
                shall be set to the value 'False' (i.e. not significant) so that a managing
                system receiving the event report will be less likely to reject it.
                The value NLM.iSO9542PDUDiscard shall be reported in the specificProblems parameter.
                The probableCause shall be set to NLM.communicationsProtocolError.
                The perceivedSeverity shall be set to 'Minor'. A subsequent communicationsAlarm
                with a perceivedSeverity value of 'Cleared' shall not be generated.
                No other fields or parameters shall be used, with the exception of further
                parameters in the AdditionalInformation field.!;

operationalProtocolIV-B BEHAVIOUR
        DEFINED AS !If the linkage MO is created by management operation (using the
            linkage-cLNS-Management name binding), the initial value of the
            operationalProtocols attribute shall be specified in the CMIP create.
            Otherwise, the value shall be determined in an implementation specific manner.!;

sN-ServiceProviderIV-B BEHAVIOUR
        DEFINED AS !If the linkage MO is created by management operation (using the
            linkage-cONS-Management or linkage-cONS-Management name bindings),
            the initial value of the sN-ServiceProvider attribute shall be specified in the CMIP create.
            Otherwise, the value shall be determined in an implementation specific manner.!;

-- Corrélations de noms

linkage-cLNS-Management NAME BINDING
        SUBORDINATE OBJECT CLASS linkage AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS cLNS AND SUBCLASSES;
            WITH ATTRIBUTE linkageId;
        BEHAVIOUR sN-ServiceProviderIV-B, operationalProtocolIV-B,
            linkage-cLNS-Management-B BEHAVIOUR
            DEFINED AS !The name binding which applies when the linkage managed object
                can be created and deleted by management as a subordinate object of the cLNS
                managed object class.!;;
        CREATE WITH-REFERENCE-OBJECT;
        DELETE;
REGISTERED AS { NLM.nboi linkage-cLNS-Management (20) };

linkage-cONS-Management NAME BINDING
        SUBORDINATE OBJECT CLASS linkage AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS cONS AND SUBCLASSES;
            WITH ATTRIBUTE linkageId;
        BEHAVIOUR sN-ServiceProviderIV-B,
            linkage-cONS-Management-B BEHAVIOUR
            DEFINED AS !The name binding which applies when the linkage managed object
                can be created and deleted by management as a subordinate object of the cONS
                managed object class.!;;
        CREATE WITH-REFERENCE-OBJECT;
        DELETE;
REGISTERED AS { NLM.nboi linkage-cONS-Management (21) };

linkage-cLNS-Automatic NAME BINDING
        SUBORDINATE OBJECT CLASS linkage AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS cLNS AND SUBCLASSES;
            WITH ATTRIBUTE linkageId;
        BEHAVIOUR sN-ServiceProviderIV-B, operationalProtocolIV-B,
            linkage-cLNS-Automatic-B BEHAVIOUR
```

```
            DEFINED AS !The name binding which applies when the linkage managed object
                cannot be created and deleted by management as a subordinate object of the cLNS
                managed object class.!;;
REGISTERED AS { NLM.nboi linkage-cLNS-Automatic (22) };

linkage-cONS-Automatic NAME BINDING
        SUBORDINATE OBJECT CLASS linkage AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS cONS AND SUBCLASSES;
            WITH ATTRIBUTE linkageId;
        BEHAVIOUR sN-ServiceProviderIV-B,
            linkage-cONS-Automatic-B BEHAVIOUR
            DEFINED AS !The name binding which applies when the linkage managed object
                cannot be created and deleted by management as a subordinate object of the cONS
                managed object class.!;;
REGISTERED AS { NLM.nboi linkage-cONS-Automatic (23) };

-- Attributs

activeESConfigTimer ATTRIBUTE
        DERIVED FROM "GMI":timer;
        BEHAVIOUR activeESConfigTimer-B BEHAVIOUR
            DEFINED AS !Currently active value for the ISO 9542 ES configuration timer
                in seconds.!;;
REGISTERED AS { NLM.aoi activeESConfigTimer (22) };

callsFailed ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR callsFailed-B BEHAVIOUR
            DEFINED AS !Counter of the number of X.25 call failures
                while attempting establishment by the SNDCF.!;;
REGISTERED AS { NLM.aoi callsFailed (30) };

callsPlaced ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR callsPlaced-B BEHAVIOUR
            DEFINED AS !Counter of the number of X.25 VCs successfully established
                by the SNDCF.!;;
REGISTERED AS { NLM.aoi callsPlaced (29) };

defaultESConfigTimer ATTRIBUTE
        DERIVED FROM "GMI":timer;
        BEHAVIOUR resettingTimer-B, defaultESConfigTimer-B BEHAVIOUR
            DEFINED AS !Default value for the ISO 9542 ES configuration timer
                in seconds. This value is used when the ES has not received,
                or has not chosen to accept, a suggested configuration timer
                value from an Intermediate System.!;;
REGISTERED AS { NLM.aoi defaultESConfigTimer (21) };

eSReachabilityChanges ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR eSReachabilityChanges-B BEHAVIOUR
            DEFINED AS !Count of the number of changes in reachability of End Systems
                from this system.!;;
REGISTERED AS { NLM.aoi eSReachabilityChanges (27) };

holdingTimerMultiplier ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Integer;
        BEHAVIOUR holdingTimerMultiplier-B BEHAVIOUR
            DEFINED AS !The factor to derive holding timer from configuration timer.
                This value, when multiplied by a configuration timer yields the value of
                the holding timer parameter issued with configuration information. The semantics of
                this parameter are such that it is permissible to also add a delta value to the result to
                compensate for possible delays and imprecision of timers. The result of the calculation
                is truncated, upon overflow, to the maximum value for the parameter permitted by the
                protocol (65535).!;;
REGISTERED AS { NLM.aoi holdingTimerMultiplier (20) };

idleTimer ATTRIBUTE
        DERIVED FROM "GMI":timer;
        BEHAVIOUR idleTimer-B BEHAVIOUR
```

```
            DEFINED AS !Time in seconds before release of an idle call.
                This timer determines the interval (in seconds) for which a call is
                permitted to remain idle (i.e. no data traffic in either direction) before being
                released by the SNDCF.!;;
REGISTERED AS { NLM.aoi idleTimer (31) };

initialMinimumTimer ATTRIBUTE
        DERIVED FROM "GMI":timer;
        BEHAVIOUR initialMinimumTimer-B BEHAVIOUR
            DEFINED AS !Minimum time in seconds to retain call after establishment.
                This timer determines the interval (in seconds) that a call shall remain
                connected after being established, irrespective of traffic. (NOTE – This should be
                set small enough so that the call is cleared before the start of the next charging interval.)!;;
REGISTERED AS { NLM.aoi initialMinimumTimer (33) };

invalid9542PDUs ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR invalid9542PDUs-B BEHAVIOUR
            DEFINED AS !Counter of invalid 9542 PDUs received.
                This is the number of ISO 9542 PDUs received which are discarded
                as a result of the PDU Header Error Detection or Protocol Error Processing Functions
                specified in ISO 9542.!;;
                -- NOTE – Ce compteur cumulera donc le nombre de notifications
                -- de type communicationsAlarm qui ont été émises avec une valeur
                -- NLM.iSO9542PDUDiscard dans l'attribut specificProblem.
REGISTERED AS { NLM.aoi invalid9542PDUs (101) };

iSConfigurationTimer ATTRIBUTE
        DERIVED FROM "GMI":timer;
        BEHAVIOUR resettingTimer-B, iSConfigurationTimer-B BEHAVIOUR
            DEFINED AS !Value in seconds for the ISO 9542 IS configuration timer.
                It is used to determine how often an IS reports configuration information to ESs.!;;
REGISTERED AS { NLM.aoi iSConfigurationTimer (24) };

iSO9542OperationalSubsets ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.ISO9542Subsets;
        MATCHES FOR EQUALITY;
        BEHAVIOUR iSO9542OperationalSubsets-B BEHAVIOUR
            DEFINED AS !The set of ISO 9542 subsets operational on this linkage.!;;
REGISTERED AS { NLM.aoi iSO9542OperationalSubsets (115) };

iSReachabilityChanges ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR iSReachabilityChanges-B BEHAVIOUR
            DEFINED AS !Counter of the number of changes in reachability of Intermediate Systems
                from this system.!;;
REGISTERED AS { NLM.aoi iSReachabilityChanges (23) };

linkageId ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.GraphicStringBase;
        MATCHES FOR EQUALITY, SUBSTRINGS;
        BEHAVIOUR linkageId-B BEHAVIOUR
            DEFINED AS !The naming attribute of the linkage MO instance.!;;
REGISTERED AS { NLM.aoi linkageId (17) };

manualISSNPAAddress ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.ManualISSNPAAddress;
        MATCHES FOR SET-COMPARISON, SET-INTERSECTION;
        BEHAVIOUR manualISSNPAAddress-B BEHAVIOUR
            DEFINED AS !The set of SNPA Addresses to which calls associated with the SNDCF are to be
                established in the absence of any other information. The maximum set cardinality shall be
                implementation specific. An attempt to set the value of an element
                of this set to a type of SNPAAddress which is not supported by this
                linkage shall result in a failure of the SET operation.!;;
REGISTERED AS { NLM.aoi manualISSNPAAddress (28) };

operationalProtocols ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.SupportedProtocols;
        MATCHES FOR EQUALITY, SET-COMPARISON, SET-INTERSECTION;
        BEHAVIOUR operationalProtocols-B BEHAVIOUR
```

```
            DEFINED AS !The set of network layer protocols supported
                by this instance of the linkage MO, expressed
                as the registered object identifiers of the relevant
                International Standard.!;;
REGISTERED AS { NLM.aoi operationalProtocols (111) };

redirectHoldingTime ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.RedirectHoldingTime;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR redirectHoldingTime-B BEHAVIOUR
            DEFINED AS !The holding time (in seconds) to be specified in Redirect PDUs
                generated by this system.!;;
REGISTERED AS { NLM.aoi redirectHoldingTime (26) };

reserveTimer ATTRIBUTE
        DERIVED FROM "GMI":timer;
        BEHAVIOUR reserveTimer-B BEHAVIOUR
            DEFINED AS !Time in seconds to reserve resources for call re-establishment.
                This timer determines the interval (in seconds) for which an attempt
                shall be made to retain those resources, as determined by the implementation,
                whose retention will increase the probability of successful re-establishment of an idled VC.!;;
REGISTERED AS { NLM.aoi reserveTimer (32) };

sN-SAP ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.LocalDistinguishedName;
        MATCHES FOR EQUALITY;
        BEHAVIOUR sN-SAP-B BEHAVIOUR
            DEFINED AS !Distinguished name of the service provider SAP MO
                (if present).
                This is obtained via an internal interface when the linkage is
                enabled. The sN-SAP may be a relationship to an SAP MO in the
                Datalink Layer, or it may be a relationship to another Managed Object
                within the Network Layer which is not an SAP MO.
                For example, when operating ITU-T Rec. X.233 | ISO/IEC 8473-1 over the ISO/IEC 8208 or
                ITU-T Rec. X.25 SNDCF,
                it is a relationship to the same x25PLE-DTE MO which is pointed to by the
                sN-ServiceProvider Attribute.!;;
REGISTERED AS { NLM.aoi sN-SAP (18) };

sN-ServiceProvider ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.LocalDistinguishedName;
        MATCHES FOR EQUALITY;
        BEHAVIOUR sN-ServiceProvider-B BEHAVIOUR
            DEFINED AS !Distinguished name of the SN service provider MO.
                This attribute identifies the subnetwork entity to be used to support the linkage,
                when enabled. The subnetwork service provider may be in the Datalink Layer,
                or it may be in the Network Layer
                (for example when operating ITU-T Rec. X.233 | ISO/IEC 8473-1 over the ISO/IEC 8208 or
                ITU-T Rec. X.25 SNDCF).!;;
REGISTERED AS { NLM.aoi sN-ServiceProvider (19) };

suggestedESConfigurationTimer ATTRIBUTE
        DERIVED FROM "GMI":timer;
        BEHAVIOUR resettingTimer-B, suggestedESConfigurationTimer-B BEHAVIOUR
            DEFINED AS !Value to be used for the ISO 9542 suggested ES configuration timer
                value (in seconds),
                advertised in IS hellos generated by this network entity.!;;
REGISTERED AS { NLM.aoi suggestedESConfigurationTimer (25) };

-- Paramètres

reachabilityChange PARAMETER
        CONTEXT EVENT-INFO;
        WITH SYNTAX NLM.ReachabilityChangeSyntax;
REGISTERED AS { NLM.proi reachabilityChange (12) };
```

5.8 L'objet géré service de couche Réseau en mode connexion

```
-- Il n'existe pas plus d'un seul de ces objets gérés par entité de couche Réseau.
-- La définition de cet objet permet de le créer et de le supprimer explicitement
-- au moyen d'une opération de gestion. Mais dans certains systèmes, il aura une existence
-- intrinsèque et aucune opération de gestion ne pourra ni le créer
-- ni le supprimer. Des corrélations de noms sont définies pour ces deux cas.
-- Lorsque la machine protocole est exploitable, l'attribut operationalState doit avoir
-- la valeur "activé"; sinon il doit avoir la valeur "désactivé". Les transitions d'état
-- de l'attribut operationalState doivent être signalées au moyen de la
-- notification stateChange. Un objet géré service cONS peut être créé dans
-- l'état opérationnel "activé".

cONS MANAGED OBJECT CLASS
        DERIVED FROM "GMI":coProtocolMachine;
        CHARACTERIZED BY cONS-P PACKAGE
            BEHAVIOUR commonStateChange-B,
                commonCreationDeletion-B;
            ATTRIBUTES
                "DMI":administrativeState GET-REPLACE,
                "GMI":coProtocolMachineId
                    INITIAL VALUE NLM.cONSId-Value
                    GET,
                operationalSystemType
                    INITIAL VALUE DERIVATION RULE operationalSystemTypeIV-B
                    GET;
            ATTRIBUTE GROUPS
                "DMI":state
                    "DMI":administrativeState
                    "DMI":operationalState;
            ACTIONS
                "GMI":activate,
                "GMI":deactivate,
                "GMI":deactivateWhenNoUsers;
            NOTIFICATIONS
                "DMI":objectCreation,
                "DMI":objectDeletion,
                "DMI":stateChange;
        ;;
REGISTERED AS { NLM.moi cONS (24) };

-- Corrélations de noms

cONS-networkEntity-Management NAME BINDING
        SUBORDINATE OBJECT CLASS cONS AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS networkEntity AND SUBCLASSES;
            WITH ATTRIBUTE "GMI":coProtocolMachineId;
        BEHAVIOUR cONS-networkEntity-Management-B BEHAVIOUR
            DEFINED AS !The name binding that applies when the cONS managed object
                can be created and deleted by management.!;;
        CREATE;
        DELETE ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS { NLM.nboi cONS-networkEntity-Management (8) };

cONS-networkEntity-Automatic NAME BINDING
        SUBORDINATE OBJECT CLASS cONS AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS networkEntity AND SUBCLASSES;
            WITH ATTRIBUTE "GMI":coProtocolMachineId;
        BEHAVIOUR cONS-networkEntity-Automatic-B BEHAVIOUR
            DEFINED AS !The name binding that applies when the cONS managed object
                cannot be created or deleted by management.!;;
REGISTERED AS { NLM.nboi cONS-networkEntity-Automatic (17) };
```

5.9 L'objet géré connexion de couche Réseau

```
-- Il existe une seule instance de cet objet géré par connexion de couche Réseau.
-- Cet objet est créé et supprimé au moyen d'une opération de la
-- machine protocole.
--
-- Dans certaines configurations, l'attribut de couche sous-jacente ConnectionNames
-- peut contenir plusieurs noms distinctifs. Dans ce cas, le type d'objet géré
-- sous-jacent (et donc la ressource sous-jacente correspondante)
-- ne peut être déterminé que par examen de l'objet géré
-- vers lequel ce nom distinctif pointe.

networkConnection MANAGED OBJECT CLASS
        DERIVED FROM "GMI":singlePeerConnection;
        CHARACTERIZED BY networkConnection-P PACKAGE
            BEHAVIOUR
                commonCreationDeletion-B,
                successfulConnectionEstablishment-B,
                deactivateConnection-B,
                networkConnection-P-B BEHAVIOUR
                DEFINED AS !The "GMI":underlyingConnectionNames
                    attribute shall contain the distinguished name(s) of the
                    other MO(s) which represent the resources used to support
                    this connection. In the case of the CONS operating
                    directly over X.25, this shall be the single distinguished
                    name of the underlying virtual call or permanent
                    virtual circuit MO.!;;
            ATTRIBUTES
                localNSAPMO GET,
                remoteNSAPAddress GET;
            ACTIONS
                "GMI":deactivate;
            NOTIFICATIONS
                "DMI":objectCreation,
                "DMI":objectDeletion,
                "GMI":communicationsInformation;
            ;;
REGISTERED AS { NLM.moi networkConnection (13) };

-- Corrélations de noms

networkConnection-cONS NAME BINDING
        SUBORDINATE OBJECT CLASS networkConnection AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS cONS AND SUBCLASSES;
            WITH ATTRIBUTE "GMI":connectionId;
        DELETE;
REGISTERED AS { NLM.nboi networkConnection-cONS (19) };

-- Attributs

localNSAPMO ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.LocalDistinguishedName;
        MATCHES FOR EQUALITY;
        BEHAVIOUR localNSAPMO-B BEHAVIOUR
            DEFINED AS !Pointer to local nSAP MO.
                This is a relationship attribute which points to the
                local nSAP MO which is associated with the connection.!;;
REGISTERED AS { NLM.aoi localNSAPMO (106) };

remoteNSAPAddress ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.NAddress;
        MATCHES FOR EQUALITY;
        BEHAVIOUR remoteNSAPAddress-B BEHAVIOUR
            DEFINED AS !The remote NSAP Address
                associated with the connection.!;;
REGISTERED AS { NLM.aoi remoteNSAPAddress (107) };
```

5.10 Les objets gérés entité PLE X.25 et analogues

5.10.1 L'objet géré entité PLE X.25

```
-- Cette classe d'objets gérés n'est jamais instanciée. Elle sert d'objet géré générique
-- entité PLE X.25 dont héritent les deux classes d'objets gérés ETTD d'entité PLE X.25 et
-- ETCD d'entité PLE X.25.
--
-- A noter qu'il est nécessaire que les valeurs de l'élément de dénomination pour identifier
-- l'entité PLE X.25 (x25PLEId) soient uniques dans toutes les instances
-- des objets gérés qui en sont dérivés et qui ont une entité supérieure commune.

x25PLE MANAGED OBJECT CLASS
        DERIVED FROM "DMI":top;
        CHARACTERIZED BY x25PLE-P PACKAGE
            BEHAVIOUR commonStateChange-B,
                commonCreationDeletion-B,
                logicalChannelAssignmentsX25PLE-P-B BEHAVIOUR
                DEFINED AS !The logicalChannelAssignments attribute shall not be replaceable
                    when the value of the operationalState attribute is 'enabled'.!;;
            ATTRIBUTES
                x25PLEId GET,
                "DMI":operationalState GET,
                "DMI":administrativeState GET-REPLACE,
                protocolVersionSupported GET,
                localDTEAddress GET-REPLACE,
                x25PLEMode GET-REPLACE,
                defaultThroughputClasses REPLACE-WITH-DEFAULT
                    DEFAULT VALUE NLM.nullBidirectionalValues
                    GET-REPLACE,
                flowControlParameterNegotiation REPLACE-WITH-DEFAULT
                    GET-REPLACE,
                defaultPacketSizes REPLACE-WITH-DEFAULT
                    DEFAULT VALUE NLM.nullBidirectionalValues
                    GET-REPLACE,
                defaultWindowSizes REPLACE-WITH-DEFAULT
                    DEFAULT VALUE NLM.nullBidirectionalValues
                    GET-REPLACE,
                throughputClassNegotiation REPLACE-WITH-DEFAULT
                    GET-REPLACE,
                sN-ServiceProvider REPLACE-WITH-DEFAULT
                    GET-REPLACE,
                sN-SAP GET,
                logicalChannelAssignments GET-REPLACE;
            ATTRIBUTE GROUPS
                "DMI":state
                    "DMI":administrativeState
                    "DMI":operationalState;
            ACTIONS
                "GMI":activate,
                "GMI":deactivate;
            NOTIFICATIONS
                "DMI":stateChange,
                "DMI":objectCreation,
                "DMI":objectDeletion;
            ;;
REGISTERED AS { NLM.moi x25PLE (25) };
```

5.10.2 L'objet géré valeurs initiales d'entité PLE X.25

```
-- Cette classe d'objets gérés n'est jamais instanciée. Elle sert d'objet IVMO d'entité PLE
-- X.25 dont héritent les deux classes d'objets gérés IVMO d'ETTD d'entité PLE X.25 et
-- IVMO d'ETCD d'entité PLE X.25.
--
-- A noter qu'il est nécessaire que les valeurs de l'attribut de dénomination pour
-- l'identification de l'objet IVMO d'entité PLE X.25 (x25PLEIVMOId) soient uniques dans
-- toutes les instances des objets gérés qui en sont dérivés et qui ont une entité supérieure
-- commune.
```

```
x25PLEIVMO MANAGED OBJECT CLASS
        DERIVED FROM "DMI":top;
        CHARACTERIZED BY x25PLEIVMO-P PACKAGE
            BEHAVIOUR commonCreationDeletion-B;
            ATTRIBUTES
                defaultPacketSizes REPLACE-WITH-DEFAULT
                    DEFAULT VALUE NLM.nullBidirectionalValues
                    GET-REPLACE,
                defaultThroughputClasses REPLACE-WITH-DEFAULT
                    DEFAULT VALUE NLM.nullBidirectionalValues
                    GET-REPLACE,
                defaultWindowSizes REPLACE-WITH-DEFAULT
                    DEFAULT VALUE NLM.nullBidirectionalValues
                    GET-REPLACE,
                flowControlParameterNegotiation REPLACE-WITH-DEFAULT
                    GET-REPLACE,
                localDTEAddress GET-REPLACE,
                logicalChannelAssignments GET-REPLACE,
                sN-ServiceProvider GET-REPLACE,
                throughputClassNegotiation REPLACE-WITH-DEFAULT
                    GET-REPLACE,
                x25PLEIVMOId GET,
                x25PLEMode GET-REPLACE;
            NOTIFICATIONS
                "DMI":objectCreation,
                "DMI":objectDeletion;
            ;;
REGISTERED AS { NLM.moi x25PLEIVMO (26) };
```

5.10.3 L'objet géré ETTD d'entité PLE X.25

```
-- Il peut exister plusieurs instances d'objets gérés de ce type dans un système,
-- correspondant à de multiples entités PLE X.25.
--
-- La définition de cet objet géré permet de le créer et de le supprimer explicitement
-- ou automatiquement, au moyen d'une opération du système. Lorsqu'une instance de cet
-- objet géré est créée automatiquement, une instance de l'IVMO d'ETTD
-- d'entité PLE X.25 peut être utilisée comme origine des valeurs initiales pour les attributs de cet objet
-- géré.
--
-- Lorsque l'entité PLE X.25 est exploitable, l'attribut operationalState doit avoir la valeur
-- "activé"; sinon, il doit avoir la valeur "inactivé". Les transitions d'état de l'attribut
-- operationalState doivent être signalées au moyen de la notification stateChange.
```

```
x25PLE-DTE MANAGED OBJECT CLASS
        DERIVED FROM x25PLE;
        CHARACTERIZED BY x25PLE-DTE-P PACKAGE
            BEHAVIOUR
                x25PLEPImportedNotifications-B;
            ATTRIBUTES
                callDeflectionSubscription REPLACE-WITH-DEFAULT
                    GET-REPLACE,
                callRequestResponseTimer REPLACE-WITH-DEFAULT
                    DEFAULT VALUE NLM.callRequestResponseTimerDefault
                    GET-REPLACE,
                extendedPacketSequenceNumbering REPLACE-WITH-DEFAULT
                    GET-REPLACE,
                maxActiveCircuits REPLACE-WITH-DEFAULT
                    DEFAULT VALUE NLM.nullChoiceInteger
                    GET-REPLACE,
                minimumRecallTimer REPLACE-WITH-DEFAULT
                    GET-REPLACE,
                resetRequestResponseTimer REPLACE-WITH-DEFAULT
                    DEFAULT VALUE NLM.resetRequestResponseTimerDefault
                    GET-REPLACE,
```

```
            restartRequestRetransmissionCount                    REPLACE-WITH-DEFAULT
                DEFAULT VALUE NLM.restartRequestRetransmissionCountDefault
                GET-REPLACE,
            restartRequestResponseTimer                          REPLACE-WITH-DEFAULT
                DEFAULT VALUE NLM.restartRequestResponseTimerDefault
                GET-REPLACE,
            clearRequestResponseTimer                            REPLACE-WITH-DEFAULT
                DEFAULT VALUE NLM.clearRequestResponseTimerDefault
                GET-REPLACE,
            interruptResponseTimer                               REPLACE-WITH-DEFAULT
                DEFAULT VALUE NLM.interruptResponseTimerDefault
                GET-REPLACE,
            resetRequestRetransmissionCount                      REPLACE-WITH-DEFAULT
                DEFAULT VALUE NLM.resetRequestRetransmissionCountDefault
                GET-REPLACE,
            clearRequestRetransmissionCount                      REPLACE-WITH-DEFAULT
                DEFAULT VALUE NLM.clearRequestRetransmissionCountDefault
                GET-REPLACE,
            callAttempts                                         GET,
            protocolErrorsDetectedLocally                        GET,
            protocolErrorsAccusedOf                              GET,
            callEstablishmentRetryCountsExceeded                 GET;
        ATTRIBUTE                                                GROUPS
            "GMI":counters
                callAttempts
                protocolErrorsDetectedLocally
                protocolErrorsAccusedOf
                callEstablishmentRetryCountsExceeded;
        NOTIFICATIONS
            "DMI":communicationsAlarm
                  notificationData;
        ;;
    CONDITIONAL PACKAGES
        dTEX25PLECounters-P
            PRESENT IF !the instance supports the dTEX25PLECounters-P
                capabilities!,
        receivingWindowRotationRecoveryProcedures-P
            PRESENT IF !The optional window rotation recovery procedures
                are implemented at a receiving DTE!,
        transmittingWindowRotationRecoveryProcedures-P
            PRESENT IF !The optional window rotation recovery procedures
                are implemented at a transmitting DTE!,
        packetRetransmissionProcedures-P
            PRESENT IF !The optional packet retransmission procedures
                are implemented!,
        onlineRegistration-P
            PRESENT IF !The optional online registration facility
                is implemented!;
REGISTERED AS { NLM.moi x25PLE-DTE (17) };
```

5.10.4 L'objet géré ETCD d'entité PLE X.25

```
-- Il peut exister plusieurs instances d'objets gérés de ce type dans un système,
-- correspondant à de multiples entités PLE X.25.
--
-- La définition de cet objet géré permet de le créer et de le supprimer explicitement
-- ou automatiquement, au moyen d'une opération du système. Lorsqu'une instance de cet
-- objet géré est créée automatiquement, une instance d'IVMO d'ETCD
-- d'entité PLE X.25 peut être utilisée comme origine des valeurs initiales pour les attributs de cet objet
-- géré.
--
-- Lorsque l'entité PLE X.25 est exploitable, l'attribut operationalState doit avoir la valeur
-- "activé"; sinon, il doit avoir la valeur "inactivé". Les transitions d'état de l'attribut
-- operationalState doivent être signalées au moyen de la notification stateChange.
```

```
x25PLE-DCE MANAGED OBJECT CLASS
        DERIVED FROM x25PLE;
        CHARACTERIZED BY x25PLE-DCE-P PACKAGE
            ATTRIBUTES
                callAttempts GET,
                callsConnected GET,
                cUG REPLACE-WITH-DEFAULT
                    GET-REPLACE,
                fastSelectAcceptance REPLACE-WITH-DEFAULT
                    GET-REPLACE,
                incomingCallsBarred REPLACE-WITH-DEFAULT
                    GET-REPLACE,
                oneWayLogicalChannelOutgoing REPLACE-WITH-DEFAULT
                    GET-REPLACE,
                outgoingCallsBarred REPLACE-WITH-DEFAULT
                    GET-REPLACE;
            ATTRIBUTE GROUPS
                "GMI":counters
                    callAttempts
                    callsConnected;
        ;;
        CONDITIONAL PACKAGES
            dCECommonVirtualCircuitCounters-P
                PRESENT IF !the instance supports the dCECommonVirtualCircuitCounters capabilities!,
            dCEX25PLEFacilities-P
                PRESENT IF !the instance supports the dCEX25PLEFacilities capabilities!,
            dCEX25PLETimers-P
                PRESENT IF !the instance supports the dCEX25PLETimers capabilities!;
REGISTERED AS { NLM.moi x25PLE-DCE (27) };
```

5.10.5 L'objet géré valeurs initiales d'ETTD d'entité PLE X.25

```
-- Il peut exister plusieurs instances de l'objet géré valeurs initiales d'ETTD d'entité PLE X.25 dans un système.
-- Cet objet peut-être utilisé pour donner des valeurs initiales aux attributs de l'objet géré ETTD d'entité PLE X.25.
-- Différentes instances de l'objet géré valeurs initiales d'ETTD d'entité PLE X.25 peuvent
-- contenir différentes valeurs initiales.
--
-- La définition de cet objet permet de le créer et de le supprimer explicitement au moyen
-- d'une opération de gestion.

x25PLEIVMO-DTE MANAGED OBJECT CLASS
        DERIVED FROM x25PLEIVMO;
        CHARACTERIZED BY x25PLEIVMO-DTE-P PACKAGE
            ATTRIBUTES
                callDeflectionSubscription REPLACE-WITH-DEFAULT
                    GET-REPLACE,
                callRequestResponseTimer REPLACE-WITH-DEFAULT
                    DEFAULT VALUE NLM.callRequestResponseTimerDefault
                    GET-REPLACE,
                clearRequestResponseTimer REPLACE-WITH-DEFAULT
                    DEFAULT VALUE NLM.clearRequestResponseTimerDefault
                    GET-REPLACE,
                clearRequestRetransmissionCount REPLACE-WITH-DEFAULT
                    DEFAULT VALUE NLM.clearRequestRetransmissionCountDefault
                    GET-REPLACE,
                extendedPacketSequenceNumbering REPLACE-WITH-DEFAULT
                    GET-REPLACE,
                interruptResponseTimer REPLACE-WITH-DEFAULT
                    DEFAULT VALUE NLM.interruptResponseTimerDefault
                    GET-REPLACE,
                maxActiveCircuits REPLACE-WITH-DEFAULT
                    DEFAULT VALUE NLM.nullChoiceInteger
                    GET-REPLACE,
                minimumRecallTimer REPLACE-WITH-DEFAULT
                    GET-REPLACE,
                resetRequestResponseTimer REPLACE-WITH-DEFAULT
                    DEFAULT VALUE NLM.resetRequestResponseTimerDefault
                    GET-REPLACE,
```

```
                resetRequestRetransmissionCount REPLACE-WITH-DEFAULT
                    DEFAULT VALUE NLM.resetRequestRetransmissionCountDefault
                    GET-REPLACE,
                restartRequestResponseTimer REPLACE-WITH-DEFAULT
                    DEFAULT VALUE NLM.restartRequestResponseTimerDefault
                    GET-REPLACE,
                restartRequestRetransmissionCount REPLACE-WITH-DEFAULT
                    DEFAULT VALUE NLM.restartRequestRetransmissionCountDefault
                    GET-REPLACE;
            ;;
        CONDITIONAL PACKAGES
            receivingWindowRotationRecoveryProcedures-P
            PRESENT IF !The optional window rotation recovery procedures are implemented
                at a receiving DTE!,
            transmittingWindowRotationRecoveryProcedures-P
            PRESENT IF !The optional window rotation recovery procedures are implemented
                at a transmitting DTE!,
            packetRetransmissionProcedures-P
            PRESENT IF !The optional packet retransmission procedures are implemented!,
            onlineRegistration-P
                PRESENT IF !The optional online registration facility is implemented!;

REGISTERED AS { NLM.moi x25PLEIVMO-DTE (20) };
```

5.10.6 L'objet géré valeurs initiales d'ETCD d'entité PLE X.25

```
-- Il peut exister plusieurs instances de l'objet géré valeurs initiales d'ETCD d'entité PLE
-- X.25 dans un système. Cet objet peut être utilisé pour donner des valeurs initiales aux
-- attributs de l'objet géré ETCD d'entité PLE X.25.
-- Différentes instances de l'objet géré valeurs initiales d'ETCD d'entité PLE X.25 peuvent
-- contenir différentes valeurs initiales.
--
-- La définition de cet objet permet de le créer et de le supprimer explicitement au moyen
-- d'une opération de gestion.


x25PLEIVMO-DCE MANAGED OBJECT CLASS
   DERIVED FROM x25PLEIVMO;
REGISTERED AS { NLM.moi x25PLEIVMO-DCE (28) };

-- Lots prédéfinis

dCECommonVirtualCircuitCounters-P PACKAGE
        BEHAVIOUR dCECommonVirtualCircuitCounters-P-B BEHAVIOUR
            DEFINED AS !provides the set of common counters used in the normal operation of a
                DCE environment, as defined in the appropriate clauses.!;,
            octetsSentReceivedCounter-B;
        ATTRIBUTES
            dataPacketsReceived GET,
            dataPacketsSent GET,
            interruptPacketsReceived GET,
            interruptPacketsSent GET,
            interruptTimerExpiries GET,
            "DMI":octetsReceivedCounter GET,
            "DMI":octetsSentCounter GET,
            providerInitiatedDisconnects GET,
            providerInitiatedResets GET,
            remotelyInitiatedRestarts GET,
            remotelyInitiatedResets GET,
            resetTimeouts GET,
            x25SegmentsReceived GET,
            x25SegmentsSent GET;
        ATTRIBUTE GROUPS
            "GMI":counters
                dataPacketsReceived
                dataPacketsSent
                interruptPacketsReceived
                interruptPacketsSent
                interruptTimerExpiries
```

```
                    "DMI":octetsReceivedCounter
                    "DMI":octetsSentCounter
                    providerInitiatedDisconnects
                    providerInitiatedResets
                    remotelyInitiatedRestarts
                    remotelyInitiatedResets
                    resetTimeouts
                    x25SegmentsReceived
                    x25SegmentsSent;
REGISTERED AS { NLM.poi dCECommonVirtualCircuitCounters-P (23) };

dCEX25PLEFacilities-P PACKAGE
        BEHAVIOUR dCEX25PLEFacilities-P-B BEHAVIOUR
            DEFINED AS !provides the set of Facilities which are optional, and may be implemented in a
                DCE environment, as defined in the appropriate clauses.!;;
        ATTRIBUTES
            bilateralCUG REPLACE-WITH-DEFAULT
                GET-REPLACE,
            bilateralCUGWithOutgoingAccess REPLACE-WITH-DEFAULT
                GET-REPLACE,
            callDeflectionSubscription REPLACE-WITH-DEFAULT
                GET-REPLACE,
            callRedirection REPLACE-WITH-DEFAULT
                GET-REPLACE,
            chargingInformation REPLACE-WITH-DEFAULT
                GET-REPLACE,
            cUGWithIncomingAccess REPLACE-WITH-DEFAULT
                GET-REPLACE,
            cUGWithOutgoingAccess REPLACE-WITH-DEFAULT
                GET-REPLACE,
            dBitModification REPLACE-WITH-DEFAULT
                GET-REPLACE,
            defaultThroughputClassesAssignment REPLACE-WITH-DEFAULT
                GET-REPLACE,
            extendedPacketSequenceNumbering REPLACE-WITH-DEFAULT
                GET-REPLACE,
            huntGroup REPLACE-WITH-DEFAULT
                GET-REPLACE,
            incomingCallBarredWithinCUG REPLACE-WITH-DEFAULT
                GET-REPLACE,
            localChargingPrevention REPLACE-WITH-DEFAULT
                GET-REPLACE,
            nonStandardDefaultPacketSizes REPLACE-WITH-DEFAULT
                GET-REPLACE,
            nonStandardDefaultWindowSizes REPLACE-WITH-DEFAULT
                GET-REPLACE,
            nUIOverride REPLACE-WITH-DEFAULT
                GET-REPLACE,
            nUISubscription REPLACE-WITH-DEFAULT
                GET-REPLACE,
            oneWayLogicalChannelIncoming REPLACE-WITH-DEFAULT
                GET-REPLACE,
            onlineFacilityRegistration REPLACE-WITH-DEFAULT
                GET-REPLACE,
            outgoingCallBarredWithinCUG REPLACE-WITH-DEFAULT
                GET-REPLACE,
            packetRetransmission REPLACE-WITH-DEFAULT
                GET-REPLACE,
            reverseChargingAcceptance REPLACE-WITH-DEFAULT
                GET-REPLACE,
             rOASubscription REPLACE-WITH-DEFAULT
                GET-REPLACE;
REGISTERED AS { NLM.poi dCEX25PLEFacilities-P (26) };

dCEX25PLETimers-P PACKAGE
        BEHAVIOUR dCEX25PLETimers-P-B BEHAVIOUR
            DEFINED AS !provides the set of timers used during the normal operation in a DCE
                environment, as defined in the appropriate clauses.!;;
```

```
        ATTRIBUTES
            clearIndication GET-REPLACE,
                -- Temporisateur T13.
            incomingCall GET-REPLACE,
                -- Temporisateur T11.
            resetIndication GET-REPLACE,
                -- Temporisateur T12.
            restartIndication GET-REPLACE;
                -- Temporisateur T10.
REGISTERED AS { NLM.poi dCEX25PLETimers-P (25) };

dTEX25PLECounters-P PACKAGE
        BEHAVIOUR dTEX25PLECounters-P-B BEHAVIOUR
            DEFINED AS !Provides the set of counters which may be associated
                with the x25PLE-DTE MO.!;,
                octetsSentReceivedCounter-B;
        ATTRIBUTES
            "DMI":octetsReceivedCounter GET,
                -- A noter que la définition des informations DMI est exprimée en octets de données d'utilisateur.
            "DMI":octetsSentCounter GET,
                -- A noter que la définition des informations DMI est exprimée en octets de données d'utilisateur.
            callTimeouts GET,
            callsConnected GET,
            clearCountsExceeded GET,
            clearTimeouts GET,
            dataPacketsReceived GET,
            dataPacketsSent GET,
                -- A noter que l'attribut "DMI":PDUsSentCounter
                -- ne peut pas être utilisé ici puisqu'il est défini comme représentant le nombre total d'unités PDU
                -- émises et non pas seulement le nombre d'unités PDU de données.
            dataRetransmissionTimerExpiries GET,
            providerInitiatedResets GET,
            providerInitiatedDisconnects GET,
            remotelyInitiatedResets GET,
            remotelyInitiatedRestarts GET,
            resetTimeouts GET,
            restartCountsExceeded GET;
        ATTRIBUTE GROUPS
            "GMI":counters
                "DMI":octetsSentCounter
                "DMI":octetsReceivedCounter
                callTimeouts
                callsConnected
                clearCountsExceeded
                clearTimeouts
                dataPacketsReceived
                dataPacketsSent
                dataRetransmissionTimerExpiries
                providerInitiatedDisconnects
                providerInitiatedResets
                remotelyInitiatedResets
                remotelyInitiatedRestarts
                resetTimeouts
                restartCountsExceeded;
REGISTERED AS { NLM.poi dTEX25PLECounters-P (18) };

packetRetransmissionProcedures-P PACKAGE
        BEHAVIOUR packetRetransmissionProcedures-P-B BEHAVIOUR
            DEFINED AS !Controls the operation of the optional packet retransmission procedures
                as described in 13.4 of ISO/IEC 8208 or ITU-T Rec. X.25 (2nd Edition).!;;
        ATTRIBUTES
            rejectResponseTimer REPLACE-WITH-DEFAULT
                DEFAULT VALUE NLM.rejectResponseTimerDefault
                GET-REPLACE,
            rejectRetransmissionCount REPLACE-WITH-DEFAULT
                DEFAULT VALUE NLM.rejectRetransmissionCountDefault
                GET-REPLACE;
REGISTERED AS { NLM.poi packetRetransmissionProcedures-P (14) };
```

```
receivingWindowRotationRecoveryProcedures-P PACKAGE
        BEHAVIOUR
            receivingWindowRotationRecoveryProcedures-P-B BEHAVIOUR
            DEFINED AS !Controls the operation of the optional window rotation recovery procedures
                at a receiving DTE as described in 11.2.2 of ISO/IEC 8208 or ITU-T Rec. X.25 (2nd Edition).!;;
        ATTRIBUTES
            windowStatusTransmissionTimer REPLACE-WITH-DEFAULT
                DEFAULT VALUE NLM.windowStatusTransmissionTimerDefault
                GET-REPLACE;
REGISTERED AS { NLM.poi receivingWindowRotationRecoveryProcedures-P (12) };

transmittingWindowRotationRecoveryProcedures-P PACKAGE
        BEHAVIOUR
            transmittingWindowRotationRecoveryProcedures-P-B BEHAVIOUR
            DEFINED AS !Controls the operation of the optional window rotation recovery procedures
              at a transmitting DTE as described in 11.2.1 of ISO/IEC 8208 or ITU-T Rec. X.25 (2nd Edition).!;;
        ATTRIBUTES
            windowRotationTimer REPLACE-WITH-DEFAULT
                DEFAULT VALUE
                    NLM.windowRotationTimerDefault
                GET-REPLACE,
            dataPacketRetransmissionCount REPLACE-WITH-DEFAULT
                DEFAULT VALUE NLM.dataPacketRetransmissionCountDefault
                GET-REPLACE;
REGISTERED AS { NLM.poi transmittingWindowRotationRecoveryProcedures-P (13) };


onlineRegistration-P PACKAGE
        BEHAVIOUR onlineRegistration-P-B BEHAVIOUR
            DEFINED AS !Controls the operation of the optional online registration facility as described
                in 13.1 of ISO/IEC 8208 or ITU-T Rec. X.25 (2nd Edition).!;;
        ATTRIBUTES
            registrationRequestResponseTimer REPLACE-WITH-DEFAULT
                DEFAULT VALUE NLM.registrationRequestResponseTimerDefault
                GET-REPLACE,
            registrationRequestRetransmissionCount REPLACE-WITH-DEFAULT
                DEFAULT VALUE NLM.registrationRequestRetransmissionCountDefault
                GET-REPLACE,
            registrationPermitted REPLACE-WITH-DEFAULT
                DEFAULT VALUE NLM.registrationPermittedDefault
                GET-REPLACE;
REGISTERED AS { NLM.poi onlineRegistration-P (11) };
-- Comportements

x25PLEPImportedNotifications-B BEHAVIOUR
        DEFINED AS !The x25PLE-P package imports the communicationsAlarm notification from
            Rec. X.721 (1992) | ISO/IEC 10165-2.
            It is used to report the following x25PLE managed object events.
            providerInitiatedDisconnect:

                Issued upon receipt of a clear packet with a cause code other than
                'DTE originated'.
                The information relating to the packet shall be reported as a
                parameter in the additionalInformation field of the communicationsAlarm,
                using the notificationData PARAMETER.
                The significance sub-parameter of each item of additionalInformation
                shall be set to the value 'False' (i.e. not significant) so that a managing
                system receiving the event report will be less likely to reject it.
                The value NLM.providerInitiatedDisconnect shall be reported in the specificProblems
                parameter.
                The probableCause shall be set to NLM.communicationsProtocolError.
                The perceivedSeverity shall be set to 'Minor'. A subsequent communicationsAlarm
                with a perceivedSeverity value of 'Cleared' shall not be generated.
                No other fields or parameters shall be used, with the exception of further
                parameters in the additionalInformation field.
```

remotelyInitiatedReset:

**Issued upon occurrence of a remotely initiated reset.
This event is issued in lieu of a 'providerInitiatedReset'
when operating in a DTE-DXE environment.
The information relating to the packet shall be reported as a
parameter in the additionalInformation field of the communicationsAlarm,
using the notificationData PARAMETER
The significance sub-parameter of each item of additionalInformation
shall be set to the value 'False' (i.e. not significant) so that a managing
system receiving the event report will be less likely to reject it.
The value NLM.remotelyInitiatedDisconnect shall be reported in the specificProblems
parameter.
The probableCause shall be set to NLM.communicationsProtocolError.
The perceivedSeverity shall be set to 'Minor'. A subsequent communicationsAlarm
with a perceivedSeverity value of 'Cleared' shall not be generated.
No other fields or parameters shall be used, with the exception of further
parameters in the additionalInformation field.**

providerInitiatedReset:

**Issued upon occurrence of a provider initiated reset.
This event is issued when operating in a DTE-DCE environment.
The information relating to the packet shall be reported as a
parameter in the additionalInformation field of the communicationsAlarm,
using the notificationData PARAMETER
The significance sub-parameter of each item of additionalInformation
shall be set to the value 'False' (i.e. not significant) so that a managing
system receiving the event report will be less likely to reject it.
The value NLM.providerInitiatedReset shall be reported in the specificProblems parameter.
The probableCause shall be set to NLM.communicationsProtocolError.
The perceivedSeverity shall be set to 'Minor'. A subsequent communicationsAlarm
with a perceivedSeverity value of 'Cleared' shall not be generated.
No other fields or parameters shall be used, with the exception of further
parameters in the additionalInformation field.**

remotelyInitiatedRestart:

**Issued upon receipt of a remotely (including provider) initiated
restart.
The information relating to the packet shall be reported as a
parameter in the additionalInformation field of the communicationsAlarm,
using the notificationData PARAMETER
The significance sub-parameter of each item of additionalInformation
shall be set to the value 'False' (i.e. not significant) so that a managing
system receiving the event report will be less likely to reject it.
The value NLM.remotelyInitiatedRestart shall be reported in the specificProblems parameter.
The probableCause shall be set to NLM.communicationsProtocolError.
The perceivedSeverity shall be set to 'Minor'. A subsequent communicationsAlarm
with a perceivedSeverity value of 'Cleared' shall not be generated.
No other fields or parameters shall be used, with the exception of further
parameters in the additionalInformation field.**

restartCountExceeded:

**Issued on restart failure due to restart count (R20) exceeded.
The information relating to the packet shall be reported as a
parameter in the additionalInformation field of the communicationsAlarm,
using the notificationData PARAMETER
The significance sub-parameter of each item of additionalInformation
shall be set to the value 'False' (i.e. not significant) so that a managing
system receiving the event report will be less likely to reject it.
The value NLM.restartCountExceeded shall be reported in the specificProblems parameter.
The probableCause shall be set to NLM.communicationsProtocolError.
The perceivedSeverity shall be set to 'Minor'. A subsequent communicationsAlarm
with a perceivedSeverity value of 'Cleared' shall not be generated.
No other fields or parameters shall be used, with the exception of further
parameters in the additionalInformation field.**

protocolErrorDetectedLocally:

Issued upon receipt of a packet which causes the "A=Error" action in the ISO/IEC 8208 or ITU-T Rec. X.25 state tables to be taken. The information relating to the packet shall be reported as a parameter in the additionalInformation field of the communicationsAlarm, using the notificationData PARAMETER. The values of cause and diagnostic codes shall be those which would have been placed in a diagnostic packet had one been generated by the DTE (i.e. as if it were a DTE). The actual generation of such a packet is not required.
The significance sub-parameter of each item of additionalInformation shall be set to the value 'False' (i.e. not significant) so that a managing system receiving the event report will be less likely to reject it.
The value NLM.communicationsProtocolErrorDetectedLocally shall be reported in the specificProblems parameter.
The probableCause shall be set to NLM.communicationsProtocolError.
The perceivedSeverity shall be set to 'Minor'. A subsequent communicationsAlarm with a perceivedSeverity value of 'Cleared' shall not be generated.
No other fields or parameters shall be used, with the exception of further parameters in the additionalInformation field.

accusedOfProtocolError:

Issued upon receipt of a diagnostic packet or a clear, reset or restart packet with a cause code equal to one of the following:
- **Remote Procedure Error,**
- **Incompatible Destination,**
- **Invalid Facility Request,**
- **Local Procedure Error.**

No other x25PLE communication alarm shall be generated as a result of this particular instance of packet.
The information relating to the packet shall be reported as a parameter in the additionalInformation field of the communicationsAlarm, using the notificationData PARAMETER
The significance sub-parameter of each item of additionalInformation shall be set to the value 'False' (i.e. not significant) so that a managing system receiving the event report will be less likely to reject it.
The value NLM.accusedOfProtocolError shall be reported in the specificProblems parameter.
The probableCause shall be set to NLM.communicationsProtocolError.
The perceivedSeverity shall be set to 'Minor'. A subsequent communicationsAlarm with a perceivedSeverity value of 'Cleared' shall not be generated.
No other fields or parameters shall be used, with the exception of further parameters in the additionalInformation field.

callEstablishmentRetryCountExceeded:

Issued on retry failure during call establishment due to retry limit exceeded.
The information relating to the call shall be reported as a parameter in the additionalInformation field of the communicationsAlarm, using the notificationData PARAMETER
The significance sub-parameter of each item of additionalInformation shall be set to the value 'False' (i.e. not significant) so that a managing system receiving the event report will be less likely to reject it.
The value NLM.callEstablishmentRetryCountExceeded shall be reported in the specificProblems parameter.
The probableCause shall be set to NLM.communicationsProtocolError.
The perceivedSeverity shall be set to 'Minor'. A subsequent communicationsAlarm with a perceivedSeverity value of 'Cleared' shall not be generated.
No other fields or parameters shall be used, with the exception of further parameters in the additionalInformation field.

```
            clearCountExceeded:

                Issued on retry failure due to clear limit (R23) exceeded.
                The information relating to the call shall be reported as a
                parameter in the additionalInformation field of the communicationsAlarm,
                using the notificationData PARAMETER
                The significance sub-parameter of each item of additionalInformation
                shall be set to the value 'False' (i.e. not significant) so that a managing
                system receiving the event report will be less likely to reject it.
                The value NLM.clearCountExceeded shall be reported in the
                specificProblems parameter.
                The probableCause shall be set to NLM.communicationsProtocolError.
                The perceivedSeverity shall be set to 'Minor'. A subsequent communicationsAlarm
                with a perceivedSeverity value of 'Cleared' shall not be generated.
                No other fields or parameters shall be used, with the exception of further
                parameters in the additionalInformation field.
        !;

-- Corrélations de noms

x25PLEIVMO-networkSubsystem NAME BINDING
        SUBORDINATE OBJECT CLASS x25PLEIVMO AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS networkSubsystem AND SUBCLASSES;
            WITH ATTRIBUTE x25PLEIVMOId;
        CREATE WITH-REFERENCE-OBJECT;
        DELETE;
REGISTERED AS { NLM.nboi x25PLEIVMO-networkSubsystem (10) };

x25PLE-networkSubsystem-Management NAME BINDING
        SUBORDINATE OBJECT CLASS x25PLE AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS networkSubsystem AND SUBCLASSES;
            WITH ATTRIBUTE x25PLEId;
        BEHAVIOUR x25PLE-networkSubsystem-Management-B BEHAVIOUR
            DEFINED AS !The name binding that applies when the x25PLE Managed Object
                or its subclasses are created by management operation.!;;
        CREATE WITH-REFERENCE-OBJECT;
        DELETE ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS { NLM.nboi x25PLE-networkSubsystem-Management (9) };

x25PLE-networkSubsystem-Automatic NAME BINDING
        SUBORDINATE OBJECT CLASS x25PLE AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS networkSubsystem AND SUBCLASSES;
            WITH ATTRIBUTE x25PLEId;
        BEHAVIOUR x25PLE-networkSubsystem-Automatic-B BEHAVIOUR
            DEFINED AS !The name binding that applies when the x25PLE Managed Object
                or its subclasses are created by automatic operation of the system.
                The creation of an instance of the x25PLE MO or its subclass
                using this name binding may reference an instance of the x25PLEIVMO
                (or of its subclass). The means by which such an instance (if any)
                of the x25PLEIVMO (or its subclass) is identified a local matter.
                When this occurs,
                some of the initial values of the attributes of the instance
                of the x25PLE MO (or its subclass) may be supplied by the values of the
                attributes in the specified instance of the x25PLEIVMO. However, any
                such value may be overridden by a value supplied by local means (for
                example across an internal interface). Where values are supplied by the
                IVMO, the initial value of an attribute of the x25PLE MO (or its subclass)
                shall be the value of the corresponding attribute in the x25PLEIVMO
                (that is, which has the same attribute template label). The naming
                attribute of the x25PLE MO (or its subclass) is assigned a value
                according to local mechanisms.!;;
        DELETE;
REGISTERED AS { NLM.nboi x25PLE-networkSubsystem-Automatic (18) };
```

```
-- Attributs

bilateralCUG ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR bilateralCUG-B BEHAVIOUR
            DEFINED AS !The subscription of the bilateral closed user group facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription
                and a value of 'False' indicates non-subscription.!;;
REGISTERED AS {  NLM.aoi bilateralCUG (125) };

bilateralCUGWithOutgoingAccess ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR bilateralCUGWithOutgoingAccess-B BEHAVIOUR
            DEFINED AS !The subscription of the bilateral CUG with outgoing access facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription
                and a value of 'False' indicates non-subscription.!;;
REGISTERED AS {  NLM.aoi bilateralCUGWithOutgoingAccess (127) };

callAttempts ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR callAttempts-B BEHAVIOUR
            DEFINED AS !Counter of the total number of calls attempted.!;;
REGISTERED AS { NLM.aoi callAttempts (52) };

callDeflectionSubscription ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR callDeflectionSubscription-B BEHAVIOUR
            DEFINED AS !The subscription of the call deflection facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription and a value
                of "False" indicates non-subscription.!;;
REGISTERED AS {  NLM.aoi callDeflectionSubscription (114) };

callEstablishmentRetryCountsExceeded ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR callEstablishmentRetryCountsExceeded-B BEHAVIOUR
            DEFINED AS !Counter associated with the callEstablishmentRetryCountExceeded event
                which generates a communications alarm notification.!;;
REGISTERED AS { NLM.aoi callEstablishmentRetryCountsExceeded (65) };

callRedirection ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR callRedirection-B BEHAVIOUR
            DEFINED AS !The subscription of the call redirection facility
                as described in ITU-T Recommendation X.2 Expressed as a boolean
                where a value of 'True' indicates subscription and a value
                of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi callRedirection (129) };

callRequestResponseTimer ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Integer;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR callRequestResponseTimer-B BEHAVIOUR
            DEFINED AS !Value for Timer T21 (Call Request Response Timer)
                in seconds.!;;
REGISTERED AS { NLM.aoi callRequestResponseTimer (77) };

callTimeouts ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR callTimeouts-B BEHAVIOUR
            DEFINED AS !Counter of the number of times timer T21 expiry is experienced
                by the PLE.!;;
REGISTERED AS { NLM.aoi callTimeouts (55) };
```

```
callsConnected ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR callsConnected-B BEHAVIOUR
            DEFINED AS !Counter of the total number of calls which have reached the open state.!;;
REGISTERED AS { NLM.aoi callsConnected (53) };

chargingInformation ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR chargingInformation-B BEHAVIOUR
            DEFINED AS !The subscription of the charging information facility
                as described in ITU-T Recommendation X.2.
                Expressed as a boolean where a value of 'True' indicates
                subscription and a value of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi chargingInformation (132) };

clearCountsExceeded ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR clearCountsExceeded-B BEHAVIOUR
            DEFINED AS !Counter associated with the clearCountExceeded event
                which generates a communications alarm notification.!;;
REGISTERED AS { NLM.aoi clearCountsExceeded (66) };

clearIndication ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Integer;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR clearIndication-B BEHAVIOUR
            DEFINED AS !Value for the Clear Indication, T13 timer, in seconds.!;;
REGISTERED AS { NLM.aoi clearIndication (133) };

clearRequestResponseTimer ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Integer;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR clearRequestResponseTimer-B BEHAVIOUR
            DEFINED AS !Value for Timer T23 (Clear Request Response Timer)
                in seconds.!;;
REGISTERED AS { NLM.aoi clearRequestResponseTimer (79) };

clearRequestRetransmissionCount ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Integer;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR clearRequestRetransmissionCount-B BEHAVIOUR
            DEFINED AS !Value for count R23 (Clear Request Retransmission Count).!;;
REGISTERED AS { NLM.aoi clearRequestRetransmissionCount (81) };

clearTimeouts ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR clearTimeouts-B BEHAVIOUR
            DEFINED AS !Counter of the number of times timer T23 expiry is experienced
                by the PLE.!;;
REGISTERED AS { NLM.aoi clearTimeouts (56) };

cUG ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR cUG-B BEHAVIOUR
            DEFINED AS !The subscription of the closed user group facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription and a value
                of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi cUG (134) };

cUGWithIncomingAccess ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR cUGWithIncomingAccess-B BEHAVIOUR
            DEFINED AS !The subscription of the closed user group with incoming access facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription
                and a value of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi cUGWithIncomingAccess (136) };
```

```
cUGWithOutgoingAccess ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR cUGWithOutgoingAccess-B BEHAVIOUR
            DEFINED AS !The subscription of the CUG with outgoing access facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription
                and a value of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi cUGWithOutgoingAccess (137) };

dBitModification ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR dBitModification-B BEHAVIOUR
            DEFINED AS !The subscription of the D bit modification facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription and a value
                of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi dBitModification (139) };

dataPacketRetransmissionCount ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Integer;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR dataPacketRetransmissionCount-B BEHAVIOUR
            DEFINED AS !Value for count R25 (Data Packet Retransmission Count).!;;
REGISTERED AS { NLM.aoi dataPacketRetransmissionCount (85) };

dataPacketsReceived ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR dataPacketsReceived-B BEHAVIOUR
            DEFINED AS !Counter of the total number of data packets received.!;;
REGISTERED AS { NLM.aoi dataPacketsReceived (51) };

dataPacketsSent ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR dataPacketsSent-B BEHAVIOUR
            DEFINED AS !Counter of the total number of data packets sent.!;;
REGISTERED AS { NLM.aoi dataPacketsSent (50) };

dataRetransmissionTimerExpiries ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR dataRetransmissionTimerExpiries-B BEHAVIOUR
            DEFINED AS !Counter of the number of expiries of timer T25.
                Returns zero if the option is not implemented.!;;
REGISTERED AS { NLM.aoi dataRetransmissionTimerExpiries (58) };

defaultPacketSizes ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.BidirectionalValues;
        MATCHES FOR EQUALITY;
        BEHAVIOUR defaultPacketSizes-B BEHAVIOUR
            DEFINED AS !The default value of the packet sizes.
                A value of NULL indicates the ISO/IEC 8208 or ITU-T Rec. X.25 default value of 128. Any other
                value indicates the value agreed by the nonstandard default packet sizes facility.!;;
REGISTERED AS { NLM.aoi defaultPacketSizes (103) };

defaultThroughputClasses ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.BidirectionalValues;
        MATCHES FOR EQUALITY;
        BEHAVIOUR defaultThroughputClasses-B BEHAVIOUR
            DEFINED AS !The default throughput class values.
                A value of NULL indicates the normal default.
                Any other value indicates the value agreed by the
                defaultThroughputClassesAssignment facility.!;;
REGISTERED AS { NLM.aoi defaultThroughputClasses (112) };

defaultThroughputClassesAssignment ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.DefaultTCA;
        MATCHES FOR EQUALITY;
        BEHAVIOUR defaultThroughputClassesAssignment-B BEHAVIOUR
```

```
            DEFINED AS !The subscription of the default throughput classes assignment facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription
                and a value of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi defaultThroughputClassesAssignment (144) };

defaultWindowSizes ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.BidirectionalValues;
        MATCHES FOR EQUALITY;
        BEHAVIOUR defaultWindowSizes-B BEHAVIOUR
            DEFINED AS !The default value of the window sizes.
                A value of NULL indicates the ITU-T Recommendation | International
                Standard default value of 2. Any other value indicates
                the value agreed by the nonstandard default window sizes facility.!;;
REGISTERED AS { NLM.aoi defaultWindowSizes (104) };

extendedPacketSequenceNumbering ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.PacketSequencing;
        MATCHES FOR EQUALITY;
        BEHAVIOUR extendedPacketSequenceNumbering-B BEHAVIOUR
            DEFINED AS !The modulo of the packet sequence number space.
                Expressed as an integer. The ITU-T Recommendation | International
                Standard only requires support for at least one of
                the two values 8 and 128, but it is possible
                that some future revision may extend the range. A system is only
                required to support the setting of values which are also required
                by the protocol standard. A system shall return an error when an
                attempt is made to set the value to a value which is not supported
                by that system.!;;
REGISTERED AS { NLM.aoi extendedPacketSequenceNumbering (49) };

fastSelectAcceptance ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR fastSelectAcceptance-B BEHAVIOUR
            DEFINED AS !The subscription of the fast select acceptance
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription and a value
                of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi fastSelectAcceptance (145) };

flowControlParameterNegotiation ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR flowControlParameterNegotiation-B BEHAVIOUR
            DEFINED AS !The subscription of the flow control parameter negotiation facility
                as described in ITU-T Recommendation X.2.
                When this has the value 'true', the use of flow control
                parameter negotiation (by specifying values for the window
                and packet size in call request and accept packets) is
                permitted. When it has the value 'false', no such values
                shall be specified in call request and accept packets, and
                any values specified in an IVMO or via an internal interface
                shall be ignored.!;;
REGISTERED AS { NLM.aoi flowControlParameterNegotiation (119) };

huntGroup ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR huntGroup-B BEHAVIOUR
            DEFINED AS !The subscription of the hunt group facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription and a value
                of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi huntGroup (146) };
```

```
incomingCall ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Integer;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR incomingCall-B BEHAVIOUR
            DEFINED AS !Value for the Incoming Call, T11 timer, in seconds.!;;
REGISTERED AS { NLM.aoi incomingCall (147) };

incomingCallBarredWithinCUG ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR incomingCallBarredWithinCUG-B BEHAVIOUR
            DEFINED AS !The subscription of the incoming call barred within a CUG facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription and
                a value of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi incomingCallBarredWithinCUG (149) };

incomingCallsBarred ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR incomingCallsBarred-B BEHAVIOUR
            DEFINED AS !The subscription of the incoming calls barred facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription and a value
                of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi incomingCallsBarred (148) };

interruptPacketsReceived ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR interruptPacketsReceived-B BEHAVIOUR
            DEFINED AS !Counter of the number of interrupt packets received
                by the PLE or over the PVC/VC.!;;
REGISTERED AS { NLM.aoi interruptPacketsReceived (68) };

interruptPacketsSent ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR interruptPacketsSent-B BEHAVIOUR
            DEFINED AS !Counter of the number of interrupt packets sent
                by the PLE or over the PVC/VC.!;;
REGISTERED AS { NLM.aoi interruptPacketsSent (67) };

interruptResponseTimer ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Integer;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR interruptResponseTimer-B BEHAVIOUR
            DEFINED AS !Value for Timer T26 (Interrupt Response Timer) in seconds.!;;
REGISTERED AS { NLM.aoi interruptResponseTimer (82) };

interruptTimerExpiries ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR interruptTimerExpiries-B BEHAVIOUR
            DEFINED AS !Counter of the number of expiries of timer T26
                experienced by the PLE or over the PVC/VC.!;;
REGISTERED AS { NLM.aoi interruptTimerExpiries (69) };

localChargingPrevention ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR localChargingPrevention-B BEHAVIOUR
            DEFINED AS !The subscription of the local charging prevention facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription and a value
                of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi localChargingPrevention (150) };

localDTEAddress ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.DTEAddress;
        MATCHES FOR EQUALITY;
        BEHAVIOUR localDTEAddress-B BEHAVIOUR
```

```
            DEFINED AS !The full DTE address of this PLE
                expressed as an X.121, E.164, etc. address.!;;
REGISTERED AS { NLM.aoi localDTEAddress (39) };

logicalChannelAssignments ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.LogicalChannelAssignments;
        MATCHES FOR EQUALITY;
        BEHAVIOUR logicalChannelAssignments-B BEHAVIOUR
            DEFINED AS !Represents the logical channel assignments of this PLE,
                expressed as a four-tuple where the values represent
                    the set (with maximum permitted cardinality (LIC - 1), minimum required
                      cardinality of zero) of PVC channels (with maximum value (LIC - 1),
                      and minimum value 1) assigned,
                    the incoming channel range,
                    the two-way channel range,
                    the outgoing channel range,
                respectively.
                The presence of each of the ranges shall be optional. Absence of a particular range
                shall signify that there are no channels of that type assigned. Within each range, the
                low value shall be less than or equal to the high value, and there shall be no value in any
                set or range which is greater than or equal to a value in a subsequent range when ordered
                as above.
                This attribute is subject to the rules for logical assignments described in 3.7 of
                ISO/IEC 8208 or ITU-T Rec. X.25.!;;
REGISTERED AS { NLM.aoi logicalChannelAssignments (48) };

maxActiveCircuits ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.MaxActiveCircuits;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR maxActiveCircuits-B BEHAVIOUR
            DEFINED AS !The maximum number of active circuits permitted on this PLE.
                When the NULL value is specified, the maximum number of active circuits
                shall be limited only by the resources available to the entity.!;;
REGISTERED AS { NLM.aoi maxActiveCircuits (41) };

minimumRecallTimer ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Integer;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR minimumRecallTimer-B BEHAVIOUR
            DEFINED AS !Minimum time in seconds before recall permitted.
                This timer determines the minimum interval (in seconds) which shall elapse
                following an unsuccessful first call attempt before a subsequent call attempt is
                permitted.!;;
REGISTERED AS { NLM.aoi minimumRecallTimer (43) };

nonStandardDefaultPacketSizes ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.NonStandardDPS;
        MATCHES FOR EQUALITY;
        BEHAVIOUR nonStandardDefaultPacketSizes-B BEHAVIOUR
            DEFINED AS !The subscription of the non standard default packet sizes facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription
                and a value of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi nonStandardDefaultPacketSizes (151) };

nonStandardDefaultWindowSizes ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.NonStandardDWS;
        MATCHES FOR EQUALITY;
        BEHAVIOUR nonStandardDefaultWindowSizes-B BEHAVIOUR
            DEFINED AS !The subscription of the non standard default window sizes facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription
                and a value of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi nonStandardDefaultWindowSizes (152) };

nUIOverride ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR nUIOverride-B BEHAVIOUR
```

```
            DEFINED AS !The subscription of the NUI override facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription and a value
                of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi nUIOverride (154) };

nUISubscription ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR nUISubscription-B BEHAVIOUR
            DEFINED AS !The subscription of the NUI subscription facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription and a value
                of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi nUISubscription (153) };

oneWayLogicalChannelIncoming ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR oneWayLogicalChannelIncoming-B BEHAVIOUR
            DEFINED AS !The subscription of the one way logical channel incoming facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription
                and a value of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi oneWayLogicalChannelIncoming (156) };

oneWayLogicalChannelOutgoing ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR oneWayLogicalChannelOutgoing-B BEHAVIOUR
            DEFINED AS !The subscription of the one way logical channel outgoing facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription
                and a value of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi oneWayLogicalChannelOutgoing (157) };

onlineFacilityRegistration ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR onlineFacilityRegistration-B BEHAVIOUR
            DEFINED AS !The subscription of the on-line facility registration facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription
                and a value of 'False' indicates non subscription.!;;
REGISTERED AS { NLM.aoi onlineFacilityRegistration (158) };

outgoingCallBarredWithinCUG ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR outgoingCallBarredWithinCUG-B BEHAVIOUR
            DEFINED AS !The subscription of the outgoing call barred within a CUG facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription
                and a value of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi outgoingCallBarredWithinCUG (160) };

outgoingCallsBarred ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR outgoingCallsBarred-B BEHAVIOUR
            DEFINED AS !The subscription of the outgoing calls barred facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription and a value
                of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi outgoingCallsBarred (159) };

packetRetransmission ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR packetRetransmission-B BEHAVIOUR
```

```
            DEFINED AS !The subscription of the packet retransmissions facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription and a value
                of 'False' indicates non-subscription. If non-subscription,
                then the attributes for rejectTimer and rejectCount
                will have NULL values.!;;
REGISTERED AS { NLM.aoi packetRetransmission (161) };

protocolErrorsAccusedOf ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR protocolErrorsAccusedOf-B BEHAVIOUR
            DEFINED AS !Counter associated with the accusedOfProtocolError event
                which generates a communications alarm notification.!;;
REGISTERED AS { NLM.aoi protocolErrorsAccusedOf (64) };

protocolErrorsDetectedLocally ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR protocolErrorsDetectedLocally-B BEHAVIOUR
            DEFINED AS !Counter associated with the protocolErrorDetectedLocally event
                which generates a communications alarm notification.!;;
REGISTERED AS { NLM.aoi protocolErrorsDetectedLocally (63) };

protocolVersionSupported ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.ProtocolVersion;
        MATCHES FOR EQUALITY;
        BEHAVIOUR protocolVersionSupported-B BEHAVIOUR
            DEFINED AS !The supported ITU-T Recommendation | International Standard protocol version
                available on the PLE interface.!;;
REGISTERED AS { NLM.aoi protocolVersionSupported (38) };

providerInitiatedDisconnects ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR providerInitiatedDisconnects-B BEHAVIOUR
            DEFINED AS !Counter for the providerInitiatedDisconnect events
                which generate communication alarm notifications.!;;
REGISTERED AS { NLM.aoi providerInitiatedDisconnects (54) };

providerInitiatedResets ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR providerInitiatedResets-B BEHAVIOUR
            DEFINED AS !Counter associated with the providerInitiatedReset event
                which generates a communication alarm notification.!;;
REGISTERED AS { NLM.aoi providerInitiatedResets (59) };

rOASubscription ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR rOASubscription-B BEHAVIOUR
            DEFINED AS !The subscription of the ROA Subscription facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription and a value
                of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi rOASubscription (167) };

registrationPermitted ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR registrationPermitted-B BEHAVIOUR
            DEFINED AS !When true, the use of online facility registration is permitted.!;;
REGISTERED AS { NLM.aoi registrationPermitted (105) };

registrationRequestResponseTimer ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Integer;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR registrationRequestResponseTimer-B BEHAVIOUR
            DEFINED AS !Value for Timer T28 (Registration Request Response Timer) in seconds.!;;
REGISTERED AS { NLM.aoi registrationRequestResponseTimer (44) };

registrationRequestRetransmissionCount ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Integer;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR registrationRequestRetransmissionCount-B BEHAVIOUR
```

```
            DEFINED AS !Value for count R28 (Registration Request Retransmission Count).!;;
REGISTERED AS { NLM.aoi registrationRequestRetransmissionCount (46) };

rejectResponseTimer ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Integer;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR rejectResponseTimer-B BEHAVIOUR
            DEFINED AS !Value for Timer T27 (Reject Response Timer) in seconds.!;;
REGISTERED AS { NLM.aoi rejectResponseTimer (86) };

rejectRetransmissionCount ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Integer;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR rejectRetransmissionCount-B BEHAVIOUR
            DEFINED AS !Value for count R27 (Reject Retransmission Count).!;;
REGISTERED AS { NLM.aoi rejectRetransmissionCount (87) };

remotelyInitiatedResets ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR remotelyInitiatedResets-B BEHAVIOUR
            DEFINED AS !Counter associated with the remotelyInitiatedReset event
                which generates a communication alarm notification.!;;
REGISTERED AS { NLM.aoi remotelyInitiatedResets (57) };

remotelyInitiatedRestarts ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR remotelyInitiatedRestarts-B BEHAVIOUR
            DEFINED AS !Counter of the number of remotely initiated restarts.
                This is the total number of remotely initiated (including provider initiated) restarts
                experienced by the PLE, excluding the
                restart associated with bringing up the PLE interface.!;;
REGISTERED AS { NLM.aoi remotelyInitiatedRestarts (61) };

resetIndication ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Integer;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR resetIndication-B BEHAVIOUR
            DEFINED AS !Value for the Reset Indication, T12 timer, in seconds.!;;
REGISTERED AS { NLM.aoi resetIndication (163) };

resetRequestResponseTimer ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Integer;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR resetRequestResponseTimer-B BEHAVIOUR
            DEFINED AS !Value for Timer T22 (Reset Request Response Timer) in seconds.!;;
REGISTERED AS { NLM.aoi resetRequestResponseTimer (78) };

resetRequestRetransmissionCount ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Integer;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR resetRequestRetransmissionCount-B BEHAVIOUR
            DEFINED AS !Value for count R22 (Reset Request Retransmission Count).!;;
REGISTERED AS { NLM.aoi resetRequestRetransmissionCount (80) };

resetTimeouts ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR resetTimeouts-B BEHAVIOUR
            DEFINED AS !Counter of the number of timer T22 expiries experienced
                by the PLE.!;;
REGISTERED AS { NLM.aoi resetTimeouts (60) };

restartCountsExceeded ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        BEHAVIOUR restartCountsExceeded-B BEHAVIOUR
            DEFINED AS !Counter associated with the restartCountExceeded event
                which generates a communication alarm notification.!;;
REGISTERED AS { NLM.aoi restartCountsExceeded (62) };

restartIndication ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Integer;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR restartIndication-B BEHAVIOUR
```

```
            DEFINED AS !Value for the Restart Indication, T10 timer, in seconds.!;;
REGISTERED AS { NLM.aoi restartIndication (164) };

restartRequestResponseTimer ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Integer;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR restartRequestResponseTimer-B BEHAVIOUR
            DEFINED AS !Value for Timer T20 (Restart Request Response Timer) in seconds.!;;
REGISTERED AS { NLM.aoi restartRequestResponseTimer (42) };

restartRequestRetransmissionCount ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Integer;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR restartRequestRetransmissionCount-B BEHAVIOUR
            DEFINED AS !Value for count R20 (Restart Request Retransmission Count).!;;
REGISTERED AS { NLM.aoi restartRequestRetransmissionCount (45) };

reverseChargingAcceptance ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR reverseChargingAcceptance-B BEHAVIOUR
            DEFINED AS !The subscription of the reverse charging acceptance facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription
                and a value of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi reverseChargingAcceptance (165) };

throughputClassNegotiation ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR throughputClassNegotiation-B BEHAVIOUR
            DEFINED AS !The subscription of the throughput class negotiation facility
                as described in ITU-T Recommendation X.2. Expressed as a boolean
                where a value of 'True' indicates subscription
                and a value of 'False' indicates non-subscription.!;;
REGISTERED AS { NLM.aoi throughputClassNegotiation (168) };

windowRotationTimer ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Integer;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR windowRotationTimer-B BEHAVIOUR
            DEFINED AS !Default for Timer T25 (Window Rotation Timer) in seconds.!;;
REGISTERED AS { NLM.aoi windowRotationTimer (84) };

windowStatusTransmissionTimer ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Integer;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR windowStatusTransmissionTimer-B BEHAVIOUR
            DEFINED AS !Value for Timer T24 (Window Status Transmission Timer) in seconds.!;;
REGISTERED AS { NLM.aoi windowStatusTransmissionTimer (83) };

x25PLEId ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.GraphicStringBase;
        MATCHES FOR EQUALITY, SUBSTRINGS;
        BEHAVIOUR x25PLEId-B BEHAVIOUR
            DEFINED AS !The name of this instance of x25PLE MO.!;;
REGISTERED AS { NLM.aoi x25PLEId (36) };

x25PLEMode ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.X25PLEMode;
        MATCHES FOR EQUALITY;
        BEHAVIOUR x25PLEMode-B BEHAVIOUR
            DEFINED AS !The DCE/DTE mode in which the X.25 PLE is currently operating.
                One of the following modes of operation may be indicated.
                (0) DTE mode applying to both ITU-T  Rec. X.25 and ISO/IEC 8208 operation,
                (1) DCE mode applying to ITU-T  Rec. X.25 operation only, and
                (2) DTE acting as a DCE applying to ISO/IEC 8208 operation only.!;;
REGISTERED AS { NLM.aoi x25PLEMode (120) };
```

```
x25PLEIVMOId ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.GraphicStringBase;
        MATCHES FOR EQUALITY, SUBSTRINGS;
        BEHAVIOUR x25PLEIVMOId-B BEHAVIOUR
            DEFINED AS !The name of this instance of x25PLE IVMO.!;;
REGISTERED AS { NLM.aoi x25PLEIVMOId (37) };

x25SegmentsReceived ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR x25SegmentsReceived-B BEHAVIOUR
            DEFINED AS !Value for count of X.25 Segments Received.!;;
REGISTERED AS { NLM.aoi x25SegmentsReceived (171) };

x25SegmentsSent ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR x25SegmentsSent-B BEHAVIOUR
            DEFINED AS !Value for count of X.25 Segments Sent.!;;
REGISTERED AS { NLM.aoi x25SegmentsSent (170) };

-- Paramètres

notificationData PARAMETER
        CONTEXT EVENT-INFO;
        WITH SYNTAX NLM.NotificationDataSyntax;
        BEHAVIOUR notificationData-B BEHAVIOUR
            DEFINED AS !Information relating to the call
                which resulted in the notification.!;;
REGISTERED AS { NLM.proi notificationData (7) };
```

5.11 Les objets gérés circuit virtuel et analogues

5.11.1 L'objet géré circuit virtuel

```
-- Cette classe d'objets gérés n'est jamais instanciée. Elle sert d'objet géré générique
-- circuit virtuel dont héritent les deux objets gérés ETTD de circuit virtuel et ETCD de
-- circuit virtuel.
-- A noter que les valeurs de l'attribut de dénomination virtualCircuitId doivent
-- être uniques dans toutes les instances des objets gérés qui en sont  dérivés et qui ont une
-- entité supérieure commune.


virtualCircuit MANAGED OBJECT CLASS
        DERIVED FROM "DMI":top;
        CHARACTERIZED BY virtualCircuit-P PACKAGE
            BEHAVIOUR
                commonCreationDeletion-B,
                virtualCircuitNaming-B;
            ATTRIBUTES
                virtualCircuitId GET,
                logicalChannel GET,
                packetSizes GET,
                throughputClasses GET,
                windowSizes GET;
            NOTIFICATIONS
                "DMI":objectCreation,
                "DMI":objectDeletion;
            ;;
REGISTERED AS { NLM.moi virtualCircuit (14) };
```

5.11.2 L'objet géré ETTD de circuit virtuel

```
-- Cette classe d'objets gérés n'est jamais instanciée. Elle sert d'objet géré générique
-- ETTD de circuit virtuel dont héritent les deux objets gérés ETTD de communication
-- virtuelle et ETTD de circuit virtuel permanent. A noter que les valeurs de l'attribut de
-- dénomination virtualCircuitId doivent être uniques dans toutes les instances des objets
-- gérés qui en sont dérivés et qui ont une entité supérieure commune.
```

```
virtualCircuit-DTE MANAGED OBJECT CLASS
        DERIVED FROM virtualCircuit;
        CONDITIONAL PACKAGES
        dTEVirtualCircuitCounters-P
        PRESENT IF !the instance supports the dTEVirtualCircuitCounters
            capabilities!;
REGISTERED AS { NLM.moi virtualCircuit-DTE (18) };
```

5.11.3 L'objet géré ETCD de circuit virtuel

```
-- Cette classe d'objets gérés n'est jamais instanciée. Elle sert d'objet géré générique
-- ETCD de circuit virtuel dont héritent les deux objets gérés ETCD de communication
-- virtuelle et ETCD de circuit virtuel permanent. Noter que les valeurs de l'attribut de
-- dénomination virtualCircuitId doivent être uniques dans toutes les instances des objets
-- gérés qui en sont dérivés et qui ont une entité supérieure commune.

virtualCircuit-DCE MANAGED OBJECT CLASS
        DERIVED FROM virtualCircuit;
            CONDITIONAL PACKAGES
                dCECommonVirtualCircuitCounters-P
                    PRESENT IF !the instance supports the dCECommonVirtualCircuitCounters capabilities
        !;
REGISTERED AS { NLM.moi virtualCircuit-DCE (29) };
```

5.11.4 L'objet géré ETTD de circuit virtuel permanent

```
-- Une instance de cet objet géré existe pour chaque circuit virtuel permanent.
-- Cet objet peut être aussi bien créé que supprimé par une opération de gestion.

permanentVirtualCircuit-DTE MANAGED OBJECT CLASS
        DERIVED FROM virtualCircuit-DTE;
        CHARACTERIZED BY permanentVirtualCircuit-DTE-P PACKAGE
            BEHAVIOUR permanentVirtualCircuit-DTE-P-B BEHAVIOUR
                DEFINED AS !When the MO is created, the protocol machine
                    shall be reinitialized and a reset PDU with a cause
                    code of DTE originated (encoded as 00000000) and a
                    diagnostic code of DTE operational (161) shall be
                    transmitted. When the MO is deleted, the protocol machine
                    shall be reinitialized and a reset PDU with a cause
                    code of DTE originated (encoded as 00000000) and a
                    diagnostic code of DTE not operational (162) shall be
                    transmitted.!;;
            ATTRIBUTES
                logicalChannel INITIAL VALUE DERIVATION RULE logicalChannelIV-B,
                packetSizes INITIAL VALUE DERIVATION RULE optionalCMIPIV-B,
                throughputClasses INITIAL VALUE DERIVATION RULE optionalCMIPIV-B,
                windowSizes INITIAL VALUE DERIVATION RULE optionalCMIPIV-B;
        ;;
REGISTERED AS { NLM.moi permanentVirtualCircuit-DTE (19) };
```

5.11.5 L'objet géré ETCD de circuit virtuel permanent

```
-- Une instance de cet objet géré existe pour chaque circuit virtuel permanent. Cet objet
-- peut être aussi bien créé que supprimé par une opération de gestion.

permanentVirtualCircuit-DCE MANAGED OBJECT CLASS
        DERIVED FROM virtualCircuit-DCE;
        CHARACTERIZED BY permanentVirtualCircuit-DCE-P PACKAGE
            BEHAVIOUR permanentVirtualCircuit-DCE-P-B BEHAVIOUR
```

```
                    DEFINED AS !When the MO is created, the protocol machine shall be re-initialized
                      and a reset PDU shall be transmitted. A cause code of remote DTE Operational
                      (encoded as X000 1001) or Network Operational (encoded as X000 1111) may,
                      for example, be included. When the MO is deleted the protocol machine shall
                      be reinitialized and a reset PDU shall be transmitted. A cause code of
                      Out of Order (encoded as X000 0001) or Network Out of Order
                      (encoded as X001 1101) may, for example, be included.!;,
                commonStateChange-B;

            ATTRIBUTES
                chargingDirection GET,
                logicalChannel INITIAL VALUE DERIVATION RULE logicalChannelIV-B,
                packetSizes INITIAL VALUE DERIVATION RULE optionalCMIPIV-B,
                throughputClasses INITIAL VALUE DERIVATION RULE optionalCMIPIV-B,
                windowSizes INITIAL VALUE DERIVATION RULE optionalCMIPIV-B,
                "DMI":operationalState GET,
                remoteDTEAddress GET,
                remoteLogicalChannel GET;
            ATTRIBUTE GROUPS
                "DMI":state
                    "DMI":operationalState;
            NOTIFICATIONS
                "DMI":stateChange;
        ;;
REGISTERED AS { NLM.moi permanentVirtualCircuit-DCE (30) };
```

5.11.6 L'objet géré valeurs initiales de communication virtuelle

```
-- Dans un système, il peut y avoir plusieurs instances de l'objet géré valeurs initiales
-- (IVMO) de communication virtuelle. Un tel objet peut servir à fournir des valeurs initiales
-- aux attributs des objets gérés ETTD ou ETCD de communication virtuelle.
-- Différentes instances de l'objet IVMO de communication virtuelle peuvent contenir des
-- valeurs initiales différentes.
--
-- La définition de cet objet permet de le créer et de le supprimer explicitement par
-- opération de gestion.

virtualCallIVMO MANAGED OBJECT CLASS
        DERIVED FROM "DMI":top;
        CHARACTERIZED BY virtualCallIVMO-P PACKAGE
            BEHAVIOUR commonCreationDeletion-B;
            ATTRIBUTES
                virtualCallIVMOId GET,
                fastSelect REPLACE-WITH-DEFAULT
                    GET-REPLACE,
                packetSizes REPLACE-WITH-DEFAULT
                    GET-REPLACE,
                reverseCharging REPLACE-WITH-DEFAULT
                    GET-REPLACE,
                throughputClasses REPLACE-WITH-DEFAULT
                    GET-REPLACE,
                windowSizes REPLACE-WITH-DEFAULT
                    GET-REPLACE;
            NOTIFICATIONS
                "DMI":objectCreation,
                "DMI":objectDeletion;
            ;;
REGISTERED AS { NLM.moi virtualCallIVMO (15) };
```

5.11.7 L'objet géré ETTD de communication virtuelle

```
-- Il existe une instance de cet objet géré pour chaque communication virtuelle.
-- Cet objet n'est pas créé par gestion mais par opération de la machine à états de protocole.
-- Une instance existante peut toutefois être désactivée par action de gestion, ce qui
-- provoquera la libération de la communication virtuelle associée.
```

```
-- Une instance de cet objet géré, une fois créée, existera aussi longtemps que les
-- ressources réelles seront consommées par l'existence de la communication virtuelle.
-- La détermination du moment, pendant l'établissement de l'appel, où les ressources
-- réelles sont consommées et, inversement, la détermination du moment où, pendant la
-- libération de l'appel, les ressources sont libérées, relèvent de la mise en œuvre de
-- l'application.

virtualCall-DTE MANAGED OBJECT CLASS
        DERIVED FROM virtualCircuit-DTE;
        CHARACTERIZED BY virtualCall-DTE-P PACKAGE
            BEHAVIOUR
                deactivateConnection-B,
                successfulConnectionEstablishment-B;
            ATTRIBUTES
                callingAddressExtension GET,
                calledAddressExtension GET,
                direction GET,
                fastSelect GET,
                originallyCalledAddress GET,
                redirectReason GET,
                remoteDTEAddress GET,
                reverseCharging GET;
            ACTIONS
                "GMI":deactivate;
            NOTIFICATIONS
                "GMI":communicationsInformation;
        ;;
REGISTERED AS { NLM.moi virtualCall-DTE (16) };
```

5.11.8 L'objet géré ETCD de communication virtuelle

```
-- Une instance de cet objet géré, une fois créée, existera aussi longtemps que les
-- ressources réelles seront consommées par l'existence de la communication virtuelle.
-- La détermination du moment, pendant l'établissement de l'appel, où les ressources
-- réelles sont consommées et, inversement, la détermination du moment où, pendant la
-- libération de l'appel, les ressources sont libérées, relèvent de la mise en œuvre de
-- l'application.

virtualCall-DCE MANAGED OBJECT CLASS
        DERIVED FROM virtualCircuit-DCE;
        CHARACTERIZED BY virtualCall-DCE-P PACKAGE
            BEHAVIOUR
                deactivateConnection-B,
                successfulConnectionEstablishment-B;
            ATTRIBUTES
                chargingDirection GET,
                cUGSelection GET,
                direction GET,
                fastSelect GET,
                remoteDTEAddress GET,
                transitDelaySelectionAndIndication GET;
            ACTIONS
                "GMI":deactivate;
            NOTIFICATIONS
                "GMI":communicationsInformation;
            ;;
        CONDITIONAL PACKAGES
            dCEVirtualCallFacilities-P
                PRESENT IF !the instance supports the dCEVirtualCallFacilities capabilities!;
REGISTERED AS { NLM.moi virtualCall-DCE (31) };
```

5.11.9 L'objet géré décomptes selon série de Recommandations D

```
-- Il existe une seule instance de cet objet géré, créée par action de gestion ou
-- automatiquement, pour chaque instance d'une communication virtuelle soumise aux
-- principes tarifaires applicables aux services de communications de données sur des
```

```
-- réseaux publics pour données spécialisés. Les Recommandations D.10, D.11 et D.12
-- définissent les dispositions applicables aux principes tarifaires.

dSeriesCounts MANAGED OBJECT CLASS
        DERIVED FROM "DMI":top;
        CHARACTERIZED BY dSeriesCounts-P PACKAGE
            BEHAVIOUR dSeriesCounts-P-B BEHAVIOUR
                DEFINED AS !provides the set of packet and segment counts required to collect
                    the charges levied according to the tariff principles contained in
                    Recommendations D.10, D.11 and D.12 for international packet switched
                    public data communications services. The values collected are reported
                    at object deletion.!;;
            ATTRIBUTES
                dSeriesId GET,
                dSeriesResetRequestIndicationPackets GET,
                dSeriesSegmentsSent GET,
                dSeriesSegmentsReceived GET;
            ATTRIBUTE GROUPS
                "GMI":counters
                    dSeriesResetRequestIndicationPackets
                    dSeriesSegmentsSent
                    dSeriesSegmentsReceived;
            NOTIFICATIONS
                "DMI":objectCreation,
                "DMI":objectDeletion;
;;
REGISTERED AS { NLM.moi dSeriesCounts (32) };

-- Lots prédéfinis

dTEVirtualCircuitCounters-P PACKAGE
        BEHAVIOUR
            octetsSentReceivedCounter-B;
        ATTRIBUTES
            "DMI":octetsSentCounter GET,
                -- à noter que la définition des informations de gestion (DMI) s'effectue en termes d'octets
                -- de  données d'utilisateur.
            "DMI":octetsReceivedCounter GET,
                -- à noter que la définition des informations de gestion (DMI) s'effectue en termes d'octets de
                -- données d'utilisateur.
            dataPacketsReceived GET,
            dataPacketsSent GET,
                -- à noter que le compteur "DMI":PDUsSentCounter
                -- ne peut pas être utilisé ici puisqu'il est défini comme représentant le nombre total des
                -- unités PDU emises et non pas seulement le nombre d'unités PDU de données.
            dataRetransmissionTimerExpiries GET,
            interruptPacketsReceived GET,
            interruptPacketsSent GET,
            interruptTimerExpiries GET,
            providerInitiatedResets GET,
            remotelyInitiatedResets GET,
            resetTimeouts GET;
        ATTRIBUTE GROUPS
            "GMI":counters
                "DMI":octetsReceivedCounter
                "DMI":octetsSentCounter
                dataPacketsReceived
                dataPacketsSent
                dataRetransmissionTimerExpiries
                interruptPacketsReceived
                interruptPacketsSent
                interruptTimerExpiries
                providerInitiatedResets
                remotelyInitiatedResets
                resetTimeouts;
REGISTERED AS { NLM.poi dTEVirtualCircuitCounters-P (19) };
```

```
dCEVirtualCallFacilities-P PACKAGE
        BEHAVIOUR dCEVirtualCallFacilities-P-B BEHAVIOUR
            DEFINED AS !provides the set of optional facilities used during the normal operation of a
                DCE, as defined in the appropriate clauses .!;;
        ATTRIBUTES
            bilateralCUGSelection GET,
            callRedirectionDeflectionNotification GET,
            calledLineAddressModifiedNotification GET,
            cUGWithOutgoingAccessSelection GET,
            nUISelection GET,
            reverseCharging GET,
             rOASelection GET;
REGISTERED AS { NLM.poi dCEVirtualCallFacilities-P (24) };

-- Comportements

logicalChannelIV-B BEHAVIOUR
        DEFINED AS !The initial value of the logical channel attribute
            shall be specified in the CMIP create.!;

optionalCMIPIV-B BEHAVIOUR
        DEFINED AS !The initial value of this attribute may be supplied
            in the CMIP create. When not so supplied, the default
            value shall be used.!;

virtualCircuitNaming-B BEHAVIOUR
        DEFINED AS !A system shall ensure that all instances of MOs derived
            from the virtualCircuit MO which have a common x25PLE or subclass
            as their superior MO, shall have unique values for the
            virtualCircuitId attribute. This applies to both automatically
            generated names and those supplied by means of a CMIP create.!;

-- Corrélations de noms

permanentVirtualCircuit-DTE-x25PLE-DTE NAME BINDING
        SUBORDINATE OBJECT CLASS permanentVirtualCircuit-DTE AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS x25PLE-DTE AND SUBCLASSES;
            WITH ATTRIBUTE virtualCircuitId;
        BEHAVIOUR logicalChannelIV-B;
        CREATE WITH-AUTOMATIC-INSTANCE-NAMING;
        DELETE;
REGISTERED AS { NLM.nboi permanentVirtualCircuit-DTE-x25PLE-DTE (26) };

permanentVirtualCircuit-DCE-x25PLE-DCE NAME BINDING
        SUBORDINATE OBJECT CLASS permanentVirtualCircuit-DCE AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS x25PLE-DCE AND SUBCLASSES;
            WITH ATTRIBUTE virtualCircuitId;
        BEHAVIOUR logicalChannelIV-B;
        CREATE WITH-AUTOMATIC-INSTANCE-NAMING;
        DELETE;
REGISTERED AS { NLM.nboi permanentVirtualCircuit-DCE-x25PLE-DCE (29) };

virtualCall-DTE-x25PLE-DTE NAME BINDING
        SUBORDINATE OBJECT CLASS virtualCall-DTE AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS x25PLE-DTE AND SUBCLASSES;
            WITH ATTRIBUTE virtualCircuitId;
        BEHAVIOUR virtualCall-DTE-x25PLE-DTE-B BEHAVIOUR
            DEFINED AS !Created only by the operation of the protocol or local
                interface. The instance name is derived automatically
                (as for CREATE WITH-AUTOMATIC-INSTANCE-NAMING).
                The creation of an instance of the virtualCall-DTE MO
                using this name binding may reference an instance of the
                virtualCallIVMO. The means by which such an instance (if any)
                of the virtualCallIVMO is identified is a local matter.
                When this occurs,
                some of the initial values of the attributes of the instance
                of the virtualCall-DTE MO may be supplied by the values of the
                attributes in the specified instance of the virtualCallIVMO. However, any
                such value may be overridden by a value supplied by local means (for
```

```
                    example, across an internal interface). Where values are supplied by the
                    IVMO, the initial value of an attribute of the virtualCall-DTE MO
                    shall be the value of the corresponding attribute in the virtualCallIVMO
                    (that is, which has the same attribute template label). The naming
                    attribute of the virtualCall-DTE is assigned a value
                    according to local mechanisms.!;;
REGISTERED AS { NLM.nboi virtualCall-DTE-x25PLE-DTE (24) };

virtualCall-DCE-x25PLE-DCE-Automatic NAME BINDING
        SUBORDINATE OBJECT CLASS virtualCall-DCE AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS x25PLE-DCE AND SUBCLASSES;
            WITH ATTRIBUTE virtualCircuitId;
        BEHAVIOUR virtualCall-DCE-x25PLE-DCE-Automatic-B BEHAVIOUR
            DEFINED AS !The name binding that applies when the virtualCall-DCE
                Managed Object is created automatically by the operation of the
                system. The instance name is derived automatically
                (as for CREATE WITH-AUTOMATIC-INSTANCE-NAMING).
                The creation of an instance of the virtualCall-DCE MO
                using this name binding may reference an instance of the
                virtualCallIVMO. The means by which such an instance (if any)
                of the virtualCallIVMO is identified is a local matter.
                When this occurs,
                some of the initial values of the attributes of the instance
                of the virtualCall-DCE MO may be supplied by the values of the
                attributes in the specified instance of the virtualCallIVMO. However, any
                such value may be overridden by a value supplied by local means (for
                example, across an internal interface). Where values are supplied by the
                IVMO, the initial value of an attribute of the virtualCall-DCE MO
                shall be the value of the corresponding attribute in the virtualCallIVMO
                (that is, which has the same attribute template label). The naming
                attribute of the virtualCall-DCE is assigned a value
                according to local mechanisms.!;;
        DELETE;
REGISTERED AS { NLM.nboi virtualCall-DCE-x25PLE-DCE-Automatic (30) };

virtualCall-DCE-x25PLE-DCE-Management NAME BINDING
        SUBORDINATE OBJECT CLASS virtualCall-DCE AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS x25PLE-DCE AND SUBCLASSES;
            WITH ATTRIBUTE virtualCircuitId;
        BEHAVIOUR virtualCall-DCE-x25PLE-DCE-Management-B BEHAVIOUR
            DEFINED AS !The name binding that applies when the virtualCall-DCE Managed Object
                is created by management operation.!;;
        CREATE WITH-AUTOMATIC-INSTANCE-NAMING;
        DELETE;
REGISTERED AS { NLM.nboi virtualCall-DCE-x25PLE-DCE-Management (31) };

virtualCallIVMO-x25PLE NAME BINDING
        SUBORDINATE OBJECT CLASS virtualCallIVMO AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS x25PLE AND SUBCLASSES;
            WITH ATTRIBUTE virtualCallIVMOId;
        CREATE;
        DELETE;
REGISTERED AS { NLM.nboi virtualCallIVMO-x25PLE (25) };

dSeriesCounts-virtualCall-DCE-Automatic NAME BINDING
        SUBORDINATE OBJECT CLASS dSeriesCounts AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS virtualCall-DCE AND SUBCLASSES;
            WITH ATTRIBUTE dSeriesId;
        BEHAVIOUR dSeriesCounts-virtualCall-DCE-Automatic-B BEHAVIOUR
            DEFINED AS !Created only by the operation of the protocol or local interface. The instance
                name is derived automatically (as for CREATE WITH-AUTOMATIC-INSTANCE-NAMING).!;;
            CREATE;
            DELETE;
REGISTERED AS { NLM.nboi dSeriesCounts-virtualCall-DCE-Automatic (32) };
```

```
dSeriesCounts-virtualCall-DCE-Management NAME BINDING
        SUBORDINATE OBJECT CLASS dSeriesCounts AND SUBCLASSES;
        NAMED BY
            SUPERIOR OBJECT CLASS virtualCall-DCE AND SUBCLASSES;
            WITH ATTRIBUTE dSeriesId;
        BEHAVIOUR dSeriesCounts-virtualCall-DCE-Management-B BEHAVIOUR
            DEFINED AS !The name binding that applies when the dSeriesCounts Managed Object
                is created by management operation.!;;
        CREATE;
        DELETE;
REGISTERED AS { NLM.nboi dSeriesCounts-virtualCall-DCE-Management (33) };

-- Attributs

bilateralCUGSelection ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR bilateralCUGSelection-B BEHAVIOUR
            DEFINED AS !Indicates the use of the bilateral closed user group selection facility
                for that call.!;;
REGISTERED AS { NLM.aoi bilateralCUGSelection (126) };

calledAddressExtension ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.NAddress;
            -- Dans le contexte OSI, ce sera toujours une adresse de point NSAP mais dans d'autres contextes
            -- ce pourra être une autre adresse. Cet attribut peut toujours prendre une valeur null,
            -- par exemple lorsqu'il est utilisé par un système selon la Rec. UIT-T X.233 | ISO/CEI 8473-1.
        MATCHES FOR EQUALITY, SUBSTRINGS;
        BEHAVIOUR calledAddressExtension-B BEHAVIOUR
            DEFINED AS !The contents of the called address extension field.!;;
REGISTERED AS { NLM.aoi calledAddressExtension (100) };

calledLineAddressModifiedNotification ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR calledLineAddressModifiedNotification-B BEHAVIOUR
            DEFINED AS !Indicates the use of the called line address modified notification facility
                for that call.!;;
REGISTERED AS { NLM.aoi calledLineAddressModifiedNotification (128) };

callingAddressExtension ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.NAddress;
            -- Dans le contexte OSI, il s'agira toujours d'une adresse de point NSAP mais dans d'autres contextes
            -- il pourra s'agir être d'une autre adresse. Cet attribut peut toujours prendre une valeur null,
            -- par exemple lorsqu'il est utilisé par un système selon la Rec. UIT-T X.233 | ISO/CEI 8473-1.
        MATCHES FOR EQUALITY, SUBSTRINGS;
        BEHAVIOUR callingAddressExtension-B BEHAVIOUR
            DEFINED AS !The contents of the calling address extension field.!;;
REGISTERED AS { NLM.aoi callingAddressExtension (99) };

callRedirectionDeflectionNotification ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR callRedirectionDeflectionNotification-B BEHAVIOUR
            DEFINED AS !Indicates the use of the call redirection deflection notification facility
                for that call.!;;
REGISTERED AS { NLM.aoi callRedirectionDeflectionNotification (130) };

chargingDirection ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR chargingDirection-B BEHAVIOUR
            DEFINED AS !Indicates the use of the charging direction facility
                for that call.!;;
REGISTERED AS { NLM.aoi chargingDirection (131) };

cUGSelection ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
```

```
        BEHAVIOUR cUGSelection-B BEHAVIOUR
            DEFINED AS !Indicates the use of the closed user group selection facility
                for that call.!;;
REGISTERED AS { NLM.aoi cUGSelection (135) };

cUGWithOutgoingAccessSelection ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR cUGWithOutgoingAccessSelection-B BEHAVIOUR
            DEFINED AS !Indicates the use of the Closed User Group With Outgoing Access Selection facility
                for that call. It may only take the value 'True' if the DTE
                does not have a preferential closed user group, as described
                in ITU-T Recommendation X.25 and ISO/IEC 8208.!;;
REGISTERED AS { NLM.aoi cUGWithOutgoingAccessSelection (138) };

dSeriesId ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.GraphicStringBase;
        MATCHES FOR EQUALITY, SUBSTRINGS;
        BEHAVIOUR dSeriesId-B BEHAVIOUR
            DEFINED AS !The name of this instance of the dSeriesCounts MO.!;;
REGISTERED AS { NLM.aoi dSeriesId (140) };

dSeriesResetRequestIndicationPackets ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR dSeriesResetRequestIndicationPackets-B BEHAVIOUR
            DEFINED AS !Value for count of Reset Request or Indication Packets
                with restrictions defined in Recommendation D.11 .!;;
REGISTERED AS { NLM.aoi dSeriesResetRequestIndicationPackets (141) };

dSeriesSegmentsReceived ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR dSeriesSegmentsReceived-B BEHAVIOUR
            DEFINED AS !Value for count of Segments Received, in 64 octets,
                as per Recommendation D.12.!;;
REGISTERED AS { NLM.aoi dSeriesSegmentsReceived (143) };

dSeriesSegmentsSent ATTRIBUTE
        DERIVED FROM "GMI":nonWrapping64BitCounter;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR dSeriesSegmentsSent-B BEHAVIOUR
            DEFINED AS !Value for count of Segments Sent, in 64 octets,
                as per Recommendation D.12.!;;
REGISTERED AS { NLM.aoi dSeriesSegmentsSent (142) };

direction ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Direction;
            -- Enuméré (appel entrant, appel sortant)
        MATCHES FOR EQUALITY;
            BEHAVIOUR direction-B BEHAVIOUR
                DEFINED AS !The direction (incoming or outgoing) of the call.!;;
REGISTERED AS { NLM.aoi direction (92) };

fastSelect ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.FastSelect;
            -- Enuméré (non spécifié, sélection rapide, sélection rapide avec
            -- réponse restreinte, pas de sélection rapide)
        MATCHES FOR EQUALITY;
        BEHAVIOUR fastSelect-B BEHAVIOUR
            DEFINED AS !Type of fast select used or to be used for call.
                In the case of an IVMO, this specifies that one of 'fast select',
                'fast select with restricted response', or no fast select
                facility is to be used for the call. It includes a value
                'not specified' which indicates that no preference is expressed
                in the IVMO. In the case of a non-IVMO MO, this specifies that one
                of 'fast select' or 'no fast select' was used for the call.!;;
REGISTERED AS { NLM.aoi fastSelect (76) };
```

```
logicalChannel ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.LogicalChannelId;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR logicalChannel-B BEHAVIOUR
            DEFINED AS !The actual Logical Channel ID used for the call.!;;
REGISTERED AS { NLM.aoi logicalChannel (89) };

nUISelection ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR nUISelection-B BEHAVIOUR
            DEFINED AS !Indicates the use of the network user identification selection facility
                for that call.!;;
REGISTERED AS { NLM.aoi nUISelection (155) };

originallyCalledAddress ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.DTEAddress;
        MATCHES FOR EQUALITY, SUBSTRINGS;
        BEHAVIOUR originallyCalledAddress-B BEHAVIOUR
            DEFINED AS !The originally called address.!;;
REGISTERED AS { NLM.aoi originallyCalledAddress (98) };

packetSizes ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.BidirectionalValues;
        MATCHES FOR EQUALITY;
        BEHAVIOUR packetSizes-B BEHAVIOUR
            DEFINED AS !The packet sizes for this VC.
                In the case of an IVMO MO it is the proposed value of the
                packet sizes (incoming and outgoing) to be used when establishing
                the virtual call, expressed in octets. The value of NULL
                indicates that the default packet size for that direction
                (as indicated by the defaultPacketSizes attribute of the
                containing X.25 PLE MO), is to be used.
                In the case of a non-IVMO MO it is the actual packet sizes
                in use for this VC.!;;
REGISTERED AS { NLM.aoi packetSizes (121) };

redirectReason ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.RedirectReason;
        MATCHES FOR EQUALITY;
        BEHAVIOUR redirectReason-B BEHAVIOUR
            DEFINED AS !The reason why the call has been redirected.
                This is the reason why the call has been offered or has been
                connected to an address different from the originally
                called address.
                That is, the value of the first octet of the Facility
                Parameter Field of the CRCDN or CLAMN facility, indicating
                the reason for call redirection or call deflection.
                The zero value indicates that the call was not redirected.!;;
REGISTERED AS { NLM.aoi redirectReason (97) };

remoteDTEAddress ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.DTEAddress;
        MATCHES FOR EQUALITY, SUBSTRINGS;
        BEHAVIOUR remoteDTEAddress-B BEHAVIOUR
            DEFINED AS !The DTE Address of the remote DTE.
                In the case of an outgoing call, this is the remote DTE address
                from the called address of the transmitted call request packet.
                In the case of an incoming call, it is the calling address from
                the received call request packet.!;;
REGISTERED AS { NLM.aoi remoteDTEAddress (93) };

remoteLogicalChannel ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.LogicalChannelId;
            -- Identification de canal à 12 éléments binaires
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR remoteLogicalChannel-B BEHAVIOUR
            DEFINED AS !The Remote Logical Channel ID for the Permanent Virtual Circuit.!;;
REGISTERED AS { NLM.aoi remoteLogicalChannel (162) };
```

```
reverseCharging ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR reverseCharging-B BEHAVIOUR
            DEFINED AS !Use of reverse charging.
                When 'True' for an outgoing call, it shall be (for an IVMO), or was
                (for a non-IVMO), initiated requesting reverse charging. When
                'True' for an incoming call associated with a virtualCall MO,
                it indicates that reverse charging was accepted.!;;
REGISTERED AS { NLM.aoi reverseCharging (75) };

rOASelection ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR rOASelection-B BEHAVIOUR
            DEFINED AS !Indicates the use of the registered operating agency selection
                facility for that call.!;;
REGISTERED AS { NLM.aoi rOASelection (166) };

throughputClasses ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.BidirectionalValues;
        MATCHES FOR EQUALITY, ORDERING;
        BEHAVIOUR throughputClasses-B BEHAVIOUR
            DEFINED AS !The throughput classes in use or to be used.
                For an IVMO, this is the throughput classes to be proposed.
                For a non-IVMO it is the actual throughput classes in use.
                For Virtual Calls this is the result of negotiation.!;;
REGISTERED AS { NLM.aoi throughputClasses (96) };

transitDelaySelectionAndIndication ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.Boolean;
        MATCHES FOR EQUALITY;
        BEHAVIOUR transitDelaySelectionAndIndication-B BEHAVIOUR
            DEFINED AS !Indicates the use of the transit delay selection and
                indication facility for that call.!;;
REGISTERED AS { NLM.aoi transitDelaySelectionAndIndication (169) };

virtualCallIVMOId ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.GraphicStringBase;
        MATCHES FOR EQUALITY, SUBSTRINGS;
        BEHAVIOUR virtualCallIVMOId-B BEHAVIOUR
            DEFINED AS !The name of this instance of virtualCallIVMO.!;;
REGISTERED AS { NLM.aoi virtualCallIVMOId (117) };

virtualCircuitId ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.GraphicStringBase;
        MATCHES FOR EQUALITY, SUBSTRINGS;
        BEHAVIOUR virtualCircuitId-B BEHAVIOUR
            DEFINED AS !The name of this instance of virtualCircuit MO or subclass.!;;
REGISTERED AS { NLM.aoi virtualCircuitId (116) };

windowSizes ATTRIBUTE
        WITH ATTRIBUTE SYNTAX NLM.BidirectionalValues;
        MATCHES FOR EQUALITY;
        BEHAVIOUR windowSizes-B BEHAVIOUR
            DEFINED AS !The actual window sizes in use for this VC.!;;
REGISTERED AS { NLM.aoi windowSizes (124) };
```

6 Modules en notation ASN.1

```
NLM { joint-iso-ccitt network-layer (13) management (0) nLM(2) asn1Module (2) 0 }
DEFINITIONS IMPLICIT TAGS::= BEGIN
-- EXPORT tout --
IMPORTS communicationsProtocolError
FROM Attribute-ASN1Module  { joint-iso-ccitt ms(9) smi(3) part2(2) asn1Module(2) 1 }
```

```
ObjectInstance
FROM CMIP-1 {joint-iso-ccitt ms(9) cmip(1) modules(0) protocol(3)}

Timer
FROM GMI-AttributeModule {joint-iso-ccitt ms(9) smi(3) part5(5) asn1Module(2) gmiAttributeModule(0)};
```

6.1 Définitions des identificateurs d'objet

6.1.1 Abréviations

```
network-layer OBJECT IDENTIFIER ::=  { joint-iso-ccitt network-layer (13) }
nl OBJECT IDENTIFIER ::=  { network-layer management (0) }
nloi OBJECT IDENTIFIER ::= { nl nLM(2) }
sseoi OBJECT IDENTIFIER ::= { nloi standardSpecificExtensions (0) }
moi OBJECT IDENTIFIER ::= { nloi managedObjectClass (3) }
poi OBJECT IDENTIFIER ::= { nloi package (4) }
proi OBJECT IDENTIFIER ::= { nloi parameter (5) }
nboi OBJECT IDENTIFIER ::= { nloi nameBinding (6) }
aoi OBJECT IDENTIFIER ::= { nloi attribute (7) }
agoi OBJECT IDENTIFIER ::= { nloi attributeGroup (8) }
acoi OBJECT IDENTIFIER ::= { nloi action (9) }
noi OBJECT IDENTIFIER ::= { nloi notification (10) }
```

6.1.2 Autres définitions d'identificateurs d'objet

-- affectation de valeurs à l'élément specificProblems

```
pDUDiscard OBJECT IDENTIFIER ::= { sseoi specificProblems(3) pDUDiscard(1) }
pDUDiscardReasonNotSpecified OBJECT IDENTIFIER ::= { pDUDiscard
        reasonNotSpecified(0) }
pDUDiscardProtocolProcedureError OBJECT IDENTIFIER ::= { pDUDiscard
        protocolProcedureError(1) }
pDUDiscardIncorrectChecksum OBJECT IDENTIFIER ::= { pDUDiscard
        incorrectChecksum(2) }
pDUDiscardHeaderSyntaxError OBJECT IDENTIFIER ::= { pDUDiscard
        headerSyntaxError(4) }
pDUDiscardSegmentationNeededButNotPermitted OBJECT IDENTIFIER ::= { pDUDiscard
        segmentationNeededButNotPermitted(5) }
pDUDiscardIncompletePDUReceived OBJECT IDENTIFIER ::= { pDUDiscard
        incompletePDUReceived(6) }
pDUDiscardDuplicateOption OBJECT IDENTIFIER ::= { pDUDiscard
        duplicateOption(7) }
pDUDiscardDestinationAddressUnreachable OBJECT IDENTIFIER ::= { pDUDiscard
        destinationAddressUnreachable(128) }
pDUDiscardDestinationAddressUnknown OBJECT IDENTIFIER ::= { pDUDiscard
        destinationAddressUnknown(129) }
pDUDiscardUnspecifiedSourceRouteingError OBJECT IDENTIFIER ::= { pDUDiscard
        unspecifiedSourceRouteingError(144) }
pDUDiscardSyntaxErrorInSourceRouteingField OBJECT IDENTIFIER ::= { pDUDiscard
        syntaxErrorInSourceRouteingField(145) }
pDUDiscardUnknownAddressInSourceRouteingField OBJECT IDENTIFIER ::= { pDUDiscard
        unknownAddressInSourceRouteingField(146) }
pDUDiscardPathNotAcceptable OBJECT IDENTIFIER ::= { pDUDiscard
        pathNotAcceptable(147) }
pDUDiscardLifetimeExpiredWhileDataUnitInTransit OBJECT IDENTIFIER ::= { pDUDiscard
        lifetimeExpiredWhileDataUnitInTransit(160) }
pDUDiscardLifetimeExpiredDuringReassembly OBJECT IDENTIFIER ::= { pDUDiscard
        lifetimeExpiredDuringReassembly(161) }
pDUDiscardUnsupportedOptionNotSpecified OBJECT IDENTIFIER ::= { pDUDiscard
        unsupportedOptionNotSpecified(176) }
pDUDiscardUnsupportedProtocolVersion OBJECT IDENTIFIER ::= { pDUDiscard
        unsupportedProtocolVersion(177) }
pDUDiscardUnsupportedSecurityOption OBJECT IDENTIFIER ::= { pDUDiscard
        unsupportedSecurityOption(178) }
pDUDiscardUnsupportedSourceRouteingOption OBJECT IDENTIFIER ::= { pDUDiscard
        unsupportedSourceRouteingOption(179) }
pDUDiscardUnsupportedRecordingOfRouteOption OBJECT IDENTIFIER ::= { pDUDiscard
        unsupportedRecordingOfRouteOption(180) }
```

```
pDUDiscardReassemblyInterference OBJECT IDENTIFIER ::= { pDUDiscard
        reassemblyInterference(181) }
iSO9542PDUDiscard OBJECT IDENTIFIER ::= { sseoi specificProblems(3) iSO9542PDUDiscard(2) }

-- pour la notification d'informations de communication

iSReachabilityChange OBJECT IDENTIFIER ::= {
        sseoi informationtype(4) iSReachabilityChange(1) }
eSReachabilityChange OBJECT IDENTIFIER ::= {
        sseoi informationtype(4) eSReachabilityChange(2) }
successfulConnectionEstablishment OBJECT IDENTIFIER ::= {
        sseoi informationtype(4) successfulConnectionEstablishment (3) }

-- pour le type d'adresse de point SNPA

sNPADTEAddress OBJECT IDENTIFIER ::= {
        sseoi sNPAAddressType(5) dTEAddress(1) }
sNPAMACAddress OBJECT IDENTIFIER ::= {
        sseoi sNPAAddressType(5) mACAddress(2) }
```

6.2 Autres définitions

```
BidirectionalValues ::= SEQUENCE {
        incoming      [0] ChoiceInteger,
        outgoing [1] ChoiceInteger }
Boolean ::= BOOLEAN
callRequestResponseTimerDefault INTEGER ::= 200
ChoiceInteger ::= CHOICE {
        dontCare      [0] IMPLICIT NULL,  -- valeur 'peu importe'  --
        integer       [1] IMPLICIT INTEGER }
clearRequestRetransmissionCountDefault INTEGER ::= 1
clearRequestResponseTimerDefault INTEGER ::= 180
cLNSId-Value GraphicString ::= "CLNS"
cONSId-Value GraphicString ::= "CONS"

DefaultTCA ::= SEQUENCE {
        subscription                  [0] BOOLEAN,
        supportedThroughClasses       [1] SET OF INTEGER OPTIONAL,
        selectedThroughputClasses          [2] BidirectionalValues OPTIONAL }
dataPacketRetransmissionCountDefault INTEGER ::= 0
windowRotationTimerDefault INTEGER ::= 200
DTEAddress ::= SEQUENCE {
        numberingPlanId  [0] ENUMERATED { unknown (0), x121(1), e164(2) },
        addressDigits          [1] OCTET STRING }

Direction ::= ENUMERATED {
            incoming(0),
            outgoing(1) }
DiscardReason ::= INTEGER(0..255)
EndToEndDelay ::= INTEGER(0..65535)
        -- Noter que conformément à l'ISO/CEI 8208 ou Rec. UIT-T X.25 une valeur de 65535
        -- indique que le délai n'est pas connu ou dépasse 65534 ms.
false BOOLEAN ::= FALSE
False ::= BOOLEAN (FALSE)
FastSelect ::= ENUMERATED {
            notSpecified(0),
            fastSelect(1),
            fastSelectWithRestrictedResponse(2),
            noFastSelect(3) }
GraphicStringBase ::= GraphicString
holdingTimerMultiplierDefault INTEGER ::= 3
HoldingTimerMultiplierPermitted ::= INTEGER(2..63)
HoldingTimerMultiplierRequired ::= INTEGER(3)
Integer ::= INTEGER
interruptResponseTimerDefault INTEGER ::= 180
iSConfigurationTimerDefault  Timer ::= {exponent 0, mantissa 10}
ISO9542Subsets ::= BIT STRING { configuration(0), redirection(1) }
Lifetime ::= INTEGER(1..255)
LocalDistinguishedName ::= localDistinguishedName < ObjectInstance
```

```
LocalDistinguishedNames ::= SET OF LocalDistinguishedName
LogicalChannelAssignments ::= SEQUENCE {
        pVC                 [0] SET OF LogicalChannelId,
        incoming            [1] LogicalChannelRange OPTIONAL,
        twoWay              [2] LogicalChannelRange OPTIONAL,
        outgoing            [3] LogicalChannelRange OPTIONAL }
LogicalChannelId ::= INTEGER (1..4095)
LogicalChannelRange ::= SEQUENCE {
        low                 [1] LogicalChannelId,
        high                [2] LogicalChannelId }
ManualISSNPAAddress ::= SET OF SNPAAddress
MaxActiveCircuits ::= ChoiceInteger
NotificationDataSyntax ::= SEQUENCE {
        channel             [1] LogicalChannelId OPTIONAL,
        packetHeader    [2] OCTET STRING,
        diagnosticCode  [3] OCTET STRING,
        causeCode           [4] OCTET STRING}
NAddress ::= OCTET STRING(SIZE(0..20))
        -- jusqu'à 20 octets
NAddresses ::= SET OF NAddress
networkSubsystemId-Value GraphicString ::= "NetworkSubsystem"
NonStandardDPS ::= SEQUENCE {
        subscription            [0] BOOLEAN,
        supportedPacketSizes    [1] SET OF INTEGER OPTIONAL,
        selectedPacketSizes     [2] BidirectionalValues OPTIONAL }
NonStandardDWS ::= SEQUENCE {
        subscription            [0] BOOLEAN,
        supportedWindowSizes        [1] SET OF INTEGER OPTIONAL,
        selectedWindowSizes     [2] BidirectionalValues OPTIONAL }
NUI ::= OctetString(SIZE(0..255))
nullBidirectionalValues BidirectionalValues ::= {
        incoming    dontCare: NULL,
        outgoing    dontCare: NULL }
nullChoiceInteger ChoiceInteger ::= dontCare: NULL
OctetString ::= OCTET STRING
PacketSequencing ::= INTEGER
PDUFormatErrorSyntax ::= PDUHeader
PDUHeader ::= OCTET STRING (SIZE(1..255))
PDUOtherErrorSyntax ::= SEQUENCE {
        errorCode           [1] INTEGER(0..255),
        header              [2] PDUHeader }
ProtocolVersion ::= ENUMERATED {
        iSO8208V1 (0),
        iSO8208V2 (1),
        x2584 (2),
        x2588 (3) }
ReachabilityChangeSyntax ::= SEQUENCE {
        newState            [1] ENUMERATED { down(0), up(1) },
        nAddresses          [2] SET OF NAddress,
        sNPAAddress             [3] SNPAAddress OPTIONAL,
        reason              [4] ENUMERATED
                                { holdingTimerExpired(0),
                                circuitDisabled(1) } OPTIONAL } -- interrompu seulement
RedirectHoldingTime ::= INTEGER(1..65535)
redirectHoldingTime-Default INTEGER ::= 600
RedirectHoldingTime-Permitted ::= INTEGER(1..65535)
RedirectReason ::= INTEGER(0..127)
registrationRequestRetransmissionCountDefault INTEGER ::= 1
registrationRequestResponseTimerDefault INTEGER ::= 300
registrationPermittedDefault BOOLEAN ::= FALSE
rejectRetransmissionCountDefault INTEGER ::= 0
rejectResponseTimerDefault INTEGER ::= 60
resetRequestRetransmissionCountDefault INTEGER ::= 1
resetRequestResponseTimerDefault INTEGER ::= 180
restartRequestRetransmissionCountDefault INTEGER ::= 1
restartRequestResponseTimerDefault INTEGER ::= 180
```

```
ROASequence ::= SEQUENCE OF NumericString (SIZE(0..4))
        -- Chaque chaîne numérique est limitée à 4 chiffres décimaux.
        -- Une séquence vide est autorisée.
SDUSize ::= INTEGER (0..65535)
SNPAAddress ::= SEQUENCE {
        type                    [1] OBJECT IDENTIFIER,
        address                 [2] OCTET STRING }
suggestedESConfigurationTimerDefault Timer ::= {exponent 0,  mantissa 600}
SupportedProtocol ::= SEQUENCE {
        protocol            [1] OBJECT IDENTIFIER,
        versions            [2] SET OF ProtocolVersion,
        defectsRepaired   [3] SET OF OBJECT IDENTIFIER OPTIONAL }
SupportedProtocols ::= SET OF SupportedProtocol
SystemType ::= ENUMERATED { eS(1), iS(2) }
SystemTypes ::= SET OF SystemType
windowStatusTransmissionTimerDefault INTEGER ::= 60
X25PLEMode ::= ENUMERATED {
                dTE(0),
                dCE(1),
                dTEasDCE(2) }
END
```

7 Conformité

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

7.1 Prescriptions de conformité à la présente Recommandation | Norme internationale

7.1.1 Conformité statique

L'implémentation doit être conforme aux prescriptions de la présente Recommandation | Norme internationale 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'implémentation doit prendre en charge au moins une opération ou notification ou action de gestion des objets gérés spécifiés dans la présente Recommandation | Norme internationale. 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, la mise en œuvre doit prendre en charge une ou plusieurs instances de la classe d'objets gérés "Sous-système de couche Réseau" 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, la mise en œuvre doit prendre en charge, pour chaque objet géré considéré, au moins une des corrélations de noms identifiées dans le Tableau D.7.

L'implémentation doit prendre en charge la syntaxe de transfert dérivée des règles de codage spécifiées dans la Rec. X.209 du CCITT | 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 implémentations réputées conformes à la présente Recommandation | Norme internationale 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 mises en œuvre de gestion

Tout formulaire MCS, MICS, MOCS et MRCS, conforme à la présente Recommandation | Norme internationale, 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 et les en-têtes de page.

Le fournisseur d'une implémentation réputée conforme à la présente Recommandation | Norme internationale doit remplir un exemplaire du récapitulatif de conformité de gestion (MCS, *management conformance summary*) donné 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 | Norme internationale, doit:

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

7.2 Prescriptions de conformité propres au protocole

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

7.2.1 Conformité au service de couche Réseau en mode sans connexion (CLNS)

Une implémentation réputée conforme au service CLNS dans le rôle d'agent en tant qu'implémentation gérée doit:

a) être conforme à la Rec. UIT-T X.283 | ISO/CEI 10733 comme indiqué au 7.1;

b) prendre en charge l'objet géré "Entité de couche Réseau", l'objet géré "Service de couche Réseau en mode sans connexion", l'objet géré "Point NSAP" et l'objet géré "Lien".

7.2.2 Conformité au service CONS

Une implémentation réputée conforme au service CONS dans le rôle d'agent en tant qu'implémentation gérée doit:

a) être conforme à la Rec. UIT-T X.283 | ISO/CEI 10733 comme indiqué au 7.1;

b) prendre en charge l'objet géré "Entité de couche Réseau", l'objet géré "Service de couche Réseau en mode connexion", l'objet géré "Point NSAP", l'objet géré "Connexion de couche Réseau" et l'objet géré "Lien".

7.2.3 Conformité à l'ETTD X.25

Une implémentation réputée conforme à l'ETTD X.25 dans le rôle d'agent en tant qu'implémentation gérée doit:

a) être conforme à la Rec. UIT-T X.283 | ISO/CEI 10733 comme indiqué au 7.1;

b) prendre en charge l'objet géré "ETTD PLE X.25" et au moins une classe dérivée de l'ETTD de circuit virtuel.

7.2.4 Conformité à l'ETCD X.25

Une implémentation réputée conforme à l'ETCD X.25 dans le rôle d'agent en tant qu'implémentation gérée doit:

a) être conforme à la Rec. UIT-T X.283 | ISO/CEI 10733 comme indiqué au 7.1;

b) prendre en charge l'objet géré "ETCD PLE X.25" et au moins une classe dérivée de l'ETCD de circuit virtuel.

Annexe A

Affectation des identificateurs d'objet

(Cette annexe fait partie intégrante de la présente Recommandation | Norme internationale)

Les identificateurs d'objet ci-après ont été attribués par la présente Recommandation | Norme internationale. Les identificateurs d'objet attribués lorsque l'équivalent de la présente Recommandation | Norme internationale se trouvait à l'étape de projet n'ont pas été réattribués. Lorsqu'une modification, autre qu'un changement à l'article relatif aux comportements a été apportée à un modèle auquel un identificateur d'objet a été attribué, un nouvel identificateur d'objet a été attribué à ce nouveau modèle, et l'ancien identificateur d'objet [dénoté ainsi: *obsolete (1)*] ne doit donc pas être réutilisé.

joint-iso-ccitt (2)
ms (9)
smi (3)
part2 (2)
asn1Module (2)
(1)

network-layer (13)
management (0)
nLM (2)
standardSpecificExtensions (0)
specificProblems (3)
pDUDiscard (1)
reasonNotSpecified (0)
protocolProcedureError (1)
incorrectChecksum (2)
headerSyntaxError (4)
segmentationNeededButNotPermitted (5)
incompletePDUReceived (6)
duplicateOption (7)
destinationAddressUnreachable (128)
destinationAddressUnknown (129)
unspecifiedSourceRouteingError (144)
syntaxErrorInSourceRouteingField (145)
unknownAddressInSourceRouteingField (146)
pathNotAcceptable (147)
lifetimeExpiredWhileDataUnitInTransit (160)
lifetimeExpiredDuringReassembly (161)
unsupportedOptionNotSpecified (176)
unsupportedProtocolVersion (177)
unsupportedSecurityOption (178)
unsupportedSourceRouteingOption (179)
unsupportedRecordingOfRouteOption (180)
reassemblyInterference (181)
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informationtype (4)
iSReachabilityChange (1)
eSReachabilityChange (2)
successfulConnectionEstablishment (3)
sNPAAddressType (5)
dTEAddress (1)
mACAddress (2)
asn1Module (2)
(0)

managedObjectClass (3)
- **networkSubsystem (1)**
- ***obsolete (2)***
- ***obsolete (3)***
- **nSAP (4)**
- ***obsolete (5)***
- ***obsolete (6)***
- ***obsolete (7)***
- ***obsolete (8)***
- ***obsolete (9)***
- ***obsolete (10)***
- ***obsolete (11)***
- ***obsolete (12)***
- **networkConnection (13)**
- **virtualCircuit (14)**
- **virtualCallIVMO (15)**
- **virtualCall-DTE (16)**
- **x25PLE-DTE (17)**
- **virtualCircuit-DTE (18)**
- **permanentVirtualCircuit-DTE (19)**
- **x25PLEIVMO-DTE (20)**
- **cLNS (21)**
- **networkEntity (22)**
- **linkage (23)**
- **cONS (24)**
- **x25PLE (25)**
- **x25PLEIVMO (26)**
- **x25PLE-DCE (27)**
- **x25PLEIVMO-DCE (28)**
- **virtualCircuit-DCE (29)**
- **permanentVirtualCircuit-DCE (30)**
- **virtualCall-DCE (31)**
- **dSeriesCounts (32)**

package (4)
- **cLNSChecksum-P (1)**
- ***obsolete (2)***
- ***obsolete (3)***
- **linkage-ISO8473-ISO8208SNDCF-P (4)**
- **linkageIdleTimer-P (5)**
- **linkageReserveTimer-P (6)**
- **linkageInitialMinimumTimer-P (7)**
- ***obsolete (8)***
- **linkageCODLService-P (9)**
- ***obsolete (10)***
- **onlineRegistration-P (11)**
- **receivingWindowRotationRecoveryProcedures-P (12)**
- **transmittingWindowRotationRecoveryProcedures-P (13)**
- **packetRetransmissionProcedures-P (14)**
- ***obsolete (15)***
- ***obsolete (16)***
- **linkage-ISO9542Checksum-P (17)**
- **dTEX25PLECounters-P (18)**
- **dTEVirtualCircuitCounters-P (19)**
- **cLNS8473-P (20)**
- **linkage-ISO9542ES-P (21)**
- **linkage-ISO9542IS-P (22)**
- **dCECommonVirtualCircuitCounters-P (23)**
- **dCEVirtualCallFacilities-P (24)**
- **dCEX25PLETimers-P (25)**
- **dCEX25PLEFacilities-P (26)**

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- **notificationPDUHeader (1)**
- ***obsolete (2)***
- ***obsolete (3)***
- ***obsolete (4)***
- ***obsolete (5)***
- ***obsolete (6)***
- **notificationData (7)**

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obsolete (9)
obsolete (10)
obsolete (11)
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obsolete (2)
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nSAP-networkSubsystem-Automatic (4)
nSAP-networkSubsystem-Management (5)
obsolete (6)
obsolete (7)
cONS-networkEntity-Management (8)
x25PLE-networkSubsystem-Management (9)
x25PLEIVMO-networkSubsystem (10)
obsolete (11)
obsolete (12)
obsolete (13)
obsolete (14)
obsolete (15)
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cONS-networkEntity-Automatic (17)
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linkage-cONS-Management (21)
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linkage-cONS-Automatic (23)
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virtualCallIVMO-x25PLE (25)
permanentVirtualCircuit-DTE-x25PLE-DTE (26)
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networkEntity-networkSubsystem-Management (28)
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assemblingSegmentsDiscarded (8)
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obsolete (13)
obsolete (14)
obsolete (15)
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suggestedESConfigurationTimer (25)
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obsolete (35)
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x25PLEIVMOId (37)
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localDTEAddress (39)
obsolete (40)
maxActiveCircuits (41)
restartRequestResponseTimer (42)
minimumRecallTimer (43)
registrationRequestResponseTimer (44)
restartRequestRetransmissionCount (45)
registrationRequestRetransmissionCount (46)
obsolete (47)
logicalChannelAssignments (48)
extendedPacketSequenceNumbering (49)
dataPacketsSent (50)
dataPacketsReceived (51)
callAttempts (52)
callsConnected (53)
providerInitiatedDisconnects (54)
callTimeouts (55)
clearTimeouts (56)
remotelyInitiatedResets (57)
dataRetransmissionTimerExpiries (58)
providerInitiatedResets (59)
resetTimeouts (60)
remotelyInitiatedRestarts (61)
restartCountsExceeded (62)
protocolErrorsDetectedLocally (63)
protocolErrorsAccusedOf (64)
callEstablishmentRetryCountsExceeded (65)
clearCountsExceeded (66)
interruptPacketsSent (67)
interruptPacketsReceived (68)
interruptTimerExpiries (69)
obsolete (70)
obsolete (71)
obsolete (72)
obsolete (73)
obsolete (74)
reverseCharging (75)
fastSelect (76)
callRequestResponseTimer (77)
resetRequestResponseTimer (78)
clearRequestResponseTimer (79)
resetRequestRetransmissionCount (80)
clearRequestRetransmissionCount (81)
interruptResponseTimer (82)
windowStatusTransmissionTimer (83)
windowRotationTimer (84)
dataPacketRetransmissionCount (85)
rejectResponseTimer (86)
rejectRetransmissionCount (87)
obsolete (88)
logicalChannel (89)
obsolete (90)
obsolete (91)
direction (92)

remoteDTEAddress (93)
obsolete (94)
obsolete (95)
throughputClasses (96)
redirectReason (97)
originallyCalledAddress (98)
callingAddressExtension (99)
calledAddressExtension (100)
invalid9542PDUs (101)
maximumLifetime (102)
defaultPacketSizes (103)
defaultWindowSizes (104)
registrationPermitted (105)
localINSAPMO (106)
remoteNSAPAddress (107)
systemTypes (108)
operationalSystemType (109)
supportedProtocols (110)
operationalProtocols (111)
defaultThroughputClasses (112)
obsolete (113)
callDeflectionSubscription (114)
iSO9542OperationalSubsets (115)
virtualCircuitId (116)
virtualCallIVMOId (117)
segmentsSent (118)
flowControlParameterNegotiation (119)
x25PLEMode (120)
packetSizes (121)
obsolete (122)
obsolete (123)
windowSizes (124)
bilateralCUG (125)
bilateralCUGSelection (126)
bilateralCUGWithOutgoingAccess (127)
calledLineAddressModifiedNotification (128)
callRedirection (129)
callRedirectionDeflectionNotification (130)
chargingDirection (131)
chargingInformation (132)
clearIndication (133)
cUG (134)
cUGSelection (135)
cUGWithIncomingAccess (136)
cUGWithOutgoingAccess (137)
cUGWithOutgoingAccessSelection (138)
dBitModification (139)
dSeriesId (140)
dSeriesResetRequestIndicationPackets (141)
dSeriesSegmentsSent (142)
dSeriesSegmentsReceived (143)
defaultThroughputClassesAssignment (144)
fastSelectAcceptance (145)
huntGroup (146)
incomingCall (147)
incomingCallsBarred (148)
incomingCallBarredWithinCUG (149)
localChargingPrevention (150)
nonStandardDefaultPacketSizes (151)
nonStandardDefaultWindowSizes (152)
nUISubscription (153)
nUIOverride (154)
nUISelection (155)
oneWayLogicalChannelIncoming (156)
oneWayLogicalChannelOutgoing (157)

```
            onlineFacilityRegistration (158)
            outgoingCallsBarred (159)
            outgoingCallBarredWithinCUG (160)
            packetRetransmission (161)
            remoteLogicalChannel (162)
            resetIndication (163)
            restartIndication (164)
            reverseChargingAcceptance (165)
            rPOASelection (166)
            rPOASubscription (167)
            throughputClassNegotiation (168)
            transitDelaySelectionAndIndication (169)
            x25SegmentsSent (170)
            x25SegmentsReceived (171)
        attributeGroup (8)
        action (9)
        notification (10)
END
```

Annexe B

Description abrégée des objets gérés

(Cette annexe fait partie intégrante de la présente Recommandation | Norme internationale)

Les informations contenues dans la présente annexe ne visent qu'à donner un aperçu général de la spécification de la gestion de la couche Réseau. Ces informations ont été extraites du texte normatif des Directives pour la gestion des objets gérés (GDMO) figurant dans la présente Recommandation | Norme internationale, il y a lieu de les considérer avec précaution car elles peuvent contenir des erreurs.

Les abréviations suivantes sont utilisées pour décrire les listes de propriétés des attributs:

G	Get (obtention)
R	Replace (remplacement)
RWD	Replace With Default (remise à la valeur par défaut)
A	Add (adjonction)
RM	Remove (suppression)

Les abréviations suivantes sont utilisées pour décrire les références aux étiquettes externes:

DMI:	"Rec. X.721 du CCITT (1992) | ISO/CEI 10165-2:1992"
GMI:	"Rec. UIT-T X.723 (1993) | ISO/CEI 10165-5:1994"

Les types de modèles suivis d'un astérisque en suffixe (par exemple ATTRIBUTE*) sont définis dans des lots conditionnels prédéfinis. Tous les modèles hérités, à l'exception de ceux qui héritent du "sommet", font partie de chaque classe d'objets gérés.

La hiérarchie d'héritage est décrite à la Figure B.1.

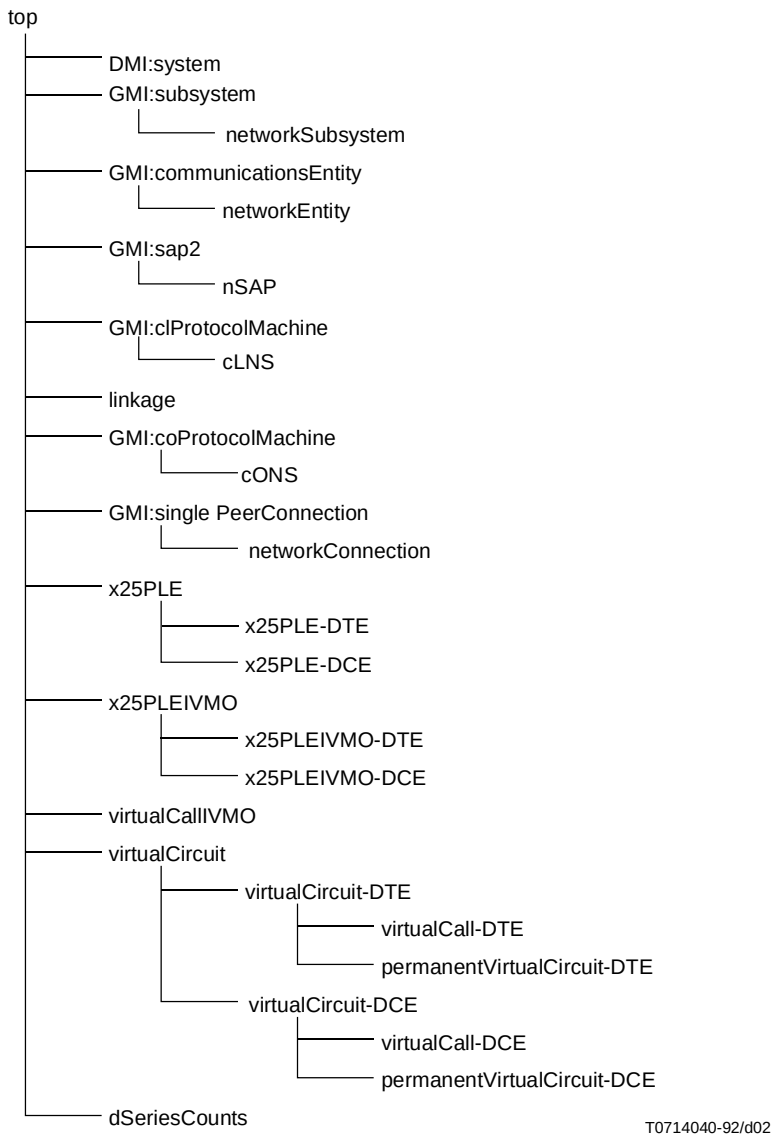

Figure B.1 – Hiérarchie d'héritage dans la couche Réseau

MANAGED OBJECT CLASS networkSubsystem DERIVED FROM (GMI:subsystem) CONTAINED IN (DMI:system)
GMI:subsystemId ATTRIBUTE (G)
END MANAGED OBJECT CLASS networkSubsystem

MANAGED OBJECT CLASS networkEntity DERIVED FROM (GMI:communicationsEntity) CONTAINED IN (networkSubsystem)
DMI:objectCreation NOTIFICATION
DMI:objectDeletion NOTIFICATION
networkEntityTitles ATTRIBUTE (G, R, A, RM)
The set of Network Entity Titles
systemTypes ATTRIBUTE (G)
The set of system roles supported by this Network Entity.
END MANAGED OBJECT CLASS networkEntity

MANAGED OBJECT CLASS nSAP DERIVED FROM (GMI:sap2) CONTAINED IN (networkSubsystem)
DMI:objectCreation NOTIFICATION
DMI:objectDeletion NOTIFICATION
GMI:sap2Address ATTRIBUTE (G)
END MANAGED OBJECT CLASS nSAP

MANAGED OBJECT CLASS cLNS DERIVED FROM (GMI:clProtocolMachine) CONTAINED IN (networkEntity)
DMI:administrativeState ATTRIBUTE (G, R)
DMI:communicationsAlarm NOTIFICATION*
DMI:objectCreation NOTIFICATION
DMI:objectDeletion NOTIFICATION
DMI:octetsReceivedCounter ATTRIBUTE* (G)
DMI:octetsSentCounter ATTRIBUTE* (G)
DMI:stateChange NOTIFICATION
GMI:activate ACTION
GMI:clProtocolMachineId ATTRIBUTE (G)
GMI:deactivate ACTION
assemblingSegmentsDiscarded ATTRIBUTE* (G)
Counter of segments discarded due to reassembly time expiry.
congestionDiscards ATTRIBUTE* (G)
Counter of PDUs discarded due to congestion.
enableChecksum ATTRIBUTE* (G, R, RWD)
When True, the generation of checksums is enabled.
errorReportsReceived ATTRIBUTE* (G)
Counter of received error reports.
maximumLifetime ATTRIBUTE* (G, R)
Maximum PDU lifetime (in half seconds).
operationalSystemType ATTRIBUTE (G)
The system role in which this instance is operating.
pDUDiscards ATTRIBUTE* (G)
Counter of PDUs discarded (except for congestion).
segmentsDiscarded ATTRIBUTE* (G)
Counter of segments discarded.
segmentsReceived ATTRIBUTE* (G)
Counter of segments received.
segmentsSent ATTRIBUTE* (G)
Counter of segments Sent.
supportedProtocols ATTRIBUTE (G)
The set of Connectionless Network protocols supported
END MANAGED OBJECT CLASS cLNS

MANAGED OBJECT CLASS linkage DERIVED FROM (DMI:top) CONTAINED IN (cONS, cLNS)
DMI:administrativeState ATTRIBUTE (G, R)
DMI:communicationsAlarm NOTIFICATION*
DMI:objectCreation NOTIFICATION
DMI:objectDeletion NOTIFICATION
DMI:operationalState ATTRIBUTE (G)
DMI:stateChange NOTIFICATION
GMI:activate ACTION
GMI:communicationsInformation NOTIFICATION*
GMI:deactivate ACTION
activeESConfigTimer ATTRIBUTE* (G)
Currently active value for the ISO 9542 ES configuration timer
callsFailed ATTRIBUTE* (G)
Counter of the number of X.25 call failures
callsPlaced ATTRIBUTE* (G)
Counter of the number of X.25 VCs successfully established
defaultESConfigTimer ATTRIBUTE* (G, R, RWD)
Default value for the ISO 9542 ES configuration timer
eSReachabilityChanges ATTRIBUTE* (G)
Count of the number of changes in reachability of End Sytems
enableChecksum ATTRIBUTE* (G, R, RWD)
When True, the generation of checksums is enabled.
holdingTimerMultiplier ATTRIBUTE* (G, R, RWD)
The factor to derive holding timer from configuration timer.
iSConfigurationTimer ATTRIBUTE* (G, R, RWD)
Value in seconds for the ISO 9542 IS configuration timer.
iSO9542OperationalSubsets ATTRIBUTE* (G, R)
The set of ISO 9542 subsets operational on this linkage.
iSReachabilityChanges ATTRIBUTE* (G)
Counter of the number of changes in reachability of Intermediate Systems
idleTimer ATTRIBUTE* (G, R, RWD)

Time in seconds before release of an idle call.
initialMinimumTimer ATTRIBUTE* (G, R, RWD)
Minimum time in seconds to retain call after establishment.
invalid9542PDUs ATTRIBUTE* (G)
Counter of invalid 9542 PDUs received.
linkageId ATTRIBUTE (G)
The naming attribute of the linkage MO instance
manualISSNPAAddress ATTRIBUTE* (G, R, RWD, A, RM)
The set of SNPA Addresses to which calls associated with the SNDCF are to established
operationalProtocols ATTRIBUTE (G)
The set of network layer protocols supported
redirectHoldingTime ATTRIBUTE* (G, R, RWD)
The holding time (in seconds) to be specified in Redirect PDUs
reserveTimer ATTRIBUTE* (G, R, RWD)
Time in seconds to reserve resources for call re-establishment.
sN-SAP ATTRIBUTE (G)
Distinguished name of the service provider SAP MO
sN-ServiceProvider ATTRIBUTE (G)
Distinguished name of the SN service provider MO.
suggestedESConfigurationTimer ATTRIBUTE* (G, R, RWD)
Value to be used for the ISO 9542 suggested ES configuration timer
END MANAGED OBJECT CLASS linkage

MANAGED OBJECT CLASS cONS DERIVED FROM (GMI:coProtocolMachine) CONTAINED IN (networkEntity)
DMI:administrativeState ATTRIBUTE (G, R)
DMI:objectCreation NOTIFICATION
DMI:objectDeletion NOTIFICATION
DMI:stateChange NOTIFICATION
GMI:activate ACTION
GMI:coProtocolMachineId ATTRIBUTE (G)
GMI:deactivate ACTION
GMI:deactivateWhenNoUsers ACTION
operationalSystemType ATTRIBUTE (G)
The system role in which this instance is operating.
END MANAGED OBJECT CLASS cONS

MANAGED OBJECT CLASS networkConnection DERIVED FROM (GMI:singlePeerConnection) CONTAINED IN (cONS)
DMI:objectCreation NOTIFICATION
DMI:objectDeletion NOTIFICATION
GMI:communicationsInformation NOTIFICATION
GMI:deactivate ACTION
localNSAPMO ATTRIBUTE (G)
Pointer to local nSAP MO.
remoteNSAPAddress ATTRIBUTE (G)
The remote NSAP Address
END MANAGED OBJECT CLASS networkConnection

MANAGED OBJECT CLASS x25PLE DERIVED FROM (DMI:top) CONTAINED IN (networkSubsystem)
DMI:administrativeState ATTRIBUTE (G, R)
DMI:objectCreation NOTIFICATION
DMI:objectDeletion NOTIFICATION
DMI:operationalState ATTRIBUTE (G)
DMI:stateChange NOTIFICATION
GMI:activate ACTION
GMI:deactivate ACTION
defaultPacketSizes ATTRIBUTE (G, R, RWD)
The default value of the packet sizes.
defaultThroughputClasses ATTRIBUTE (G, R, RWD)
The default throughput class values.
defaultWindowSizes ATTRIBUTE (G, R, RWD)
The default value of the window sizes.
flowControlParameterNegotiation ATTRIBUTE (G, R, RWD)
The subscription of the flow control parameter negotiation facility
localDTEAddress ATTRIBUTE (G, R)
The full DTE address of this PLE
logicalChannelAssignments ATTRIBUTE (G, R)
Represents the logical channel assignments of this PLE,

protocolVersionSupported ATTRIBUTE (G)
The supported Recommendation | International Standard protocol version
sN-SAP ATTRIBUTE (G)
Distinguished name of the service provider SAP MO
sN-ServiceProvider ATTRIBUTE (G, R, RWD)
Distinguished name of the SN service provider MO.
throughputClassNegotiation ATTRIBUTE (G, R, RWD)
The subscription of the throughput class negotiation facility
x25PLEId ATTRIBUTE (G)
The name of this instance of x25PLE MO
x25PLEMode ATTRIBUTE (G, R)
The DCE/DTE mode in which the X.25 PLE is currently operating.
END MANAGED OBJECT CLASS x25PLE

MANAGED OBJECT CLASS x25PLEIVMO DERIVED FROM (DMI:top) CONTAINED IN (networkSubsystem)
DMI:objectCreation NOTIFICATION
DMI:objectDeletion NOTIFICATION
defaultPacketSizes ATTRIBUTE (G, R, RWD)
The default value of the packet sizes.
defaultThroughputClasses ATTRIBUTE (G, R, RWD)
The default throughput class values.
defaultWindowSizes ATTRIBUTE (G, R, RWD)
The default value of the window sizes.
flowControlParameterNegotiation ATTRIBUTE (G, R, RWD)
The subscription of the flow control parameter negotiation facility
localDTEAddress ATTRIBUTE (G, R)
The full DTE address of this PLE
logicalChannelAssignments ATTRIBUTE (G, R)
Represents the logical channel assignments of this PLE,
sN-ServiceProvider ATTRIBUTE (G, R)
Distinguished name of the SN service provider MO.
throughputClassNegotiation ATTRIBUTE (G, R, RWD)
The subscription of the throughput class negotiation facility
x25PLEIVMOId ATTRIBUTE (G)
The name of this instance of x25PLE IVMO
x25PLEMode ATTRIBUTE (G, R)
The DCE/DTE mode in which the X.25 PLE is currently operating.
END MANAGED OBJECT CLASS x25PLEIVMO

MANAGED OBJECT CLASS x25PLE-DTE DERIVED FROM (x25PLE)
DMI:administrativeState ATTRIBUTE (G, R)
DMI:communicationsAlarm NOTIFICATION
DMI:objectCreation NOTIFICATION
DMI:objectDeletion NOTIFICATION
DMI:octetsReceivedCounter ATTRIBUTE* (G)
DMI:octetsSentCounter ATTRIBUTE* (G)
DMI:operationalState ATTRIBUTE (G)
DMI:stateChange NOTIFICATION
GMI:activate ACTION
GMI:deactivate ACTION
callAttempts ATTRIBUTE (G)
Counter of the total number of calls attempted
callDeflectionSubscription ATTRIBUTE (G, R, RWD)
The subscription of the call deflection facility
callEstablishmentRetryCountsExceeded ATTRIBUTE (G)
Counter associated with the callEstablishmentRetryCountExceeded event
callRequestResponseTimer ATTRIBUTE (G, R, RWD)
Value for Timer T21 (Call Request Response Timer)
callTimeouts ATTRIBUTE* (G)
Counter of the number of times timer T21 expiry is experienced
callsConnected ATTRIBUTE* (G)
Counter of the total number of calls which have reached the open state
clearCountsExceeded ATTRIBUTE* (G)
Counter associated with the clearCountExceeded event
clearRequestResponseTimer ATTRIBUTE (G, R, RWD)
Value for Timer T23 (Clear Request Response Timer)
clearRequestRetransmissionCount ATTRIBUTE (G, R, RWD)
Value for count R23 (Clear Request Retransmission Count)

clearTimeouts ATTRIBUTE* (G)
Counter of the number of times timer T23 expiry is experienced
dataPacketRetransmissionCount ATTRIBUTE* (G, R, RWD)
Value for count R25 (Data Packet Retransmission Count)
dataPacketsReceived ATTRIBUTE* (G)
Counter of the total number of data packets received
dataPacketsSent ATTRIBUTE* (G)
Counter of the total number of data packets sent
dataRetransmissionTimerExpiries ATTRIBUTE* (G)
Counter of the number of expiries of timer T25.
defaultPacketSizes ATTRIBUTE (G, R, RWD)
The default value of the packet sizes.
defaultThroughputClasses ATTRIBUTE (G, R, RWD)
The default throughput class values.
defaultWindowSizes ATTRIBUTE (G, R, RWD)
The default value of the window sizes.
extendedPacketSequenceNumbering ATTRIBUTE (G, R, RWD)
The modulo of the packet sequence number space.
flowControlParameterNegotiation ATTRIBUTE (G, R, RWD)
The subscription of the flow control parameter negotiation facility
interruptResponseTimer ATTRIBUTE (G, R, RWD)
Value for Timer T26 (Interrupt Response Timer) in seconds
localDTEAddress ATTRIBUTE (G, R)
The full DTE address of this PLE
logicalChannelAssignments ATTRIBUTE (G, R)
Represents the logical channel assignments of this PLE,
maxActiveCircuits ATTRIBUTE (G, R, RWD)
The maximum number of active circuits permitted on this PLE.
minimumRecallTimer ATTRIBUTE (G, R, RWD)
Minimum time in seconds before recall permitted.
protocolErrorsAccusedOf ATTRIBUTE (G)
Counter associated with the accusedOfProtocolError event
protocolErrorsDetectedLocally ATTRIBUTE (G)
Counter associated with the protocolErrorDetectedLocally event
protocolVersionSupported ATTRIBUTE (G)
The supported Recommendation | International Standard protocol version
providerInitiatedDisconnects ATTRIBUTE* (G)
Counter for the providerInitiatedDisconnect events
providerInitiatedResets ATTRIBUTE* (G)
Counter associated with the providerInitiatedReset event
registrationPermitted ATTRIBUTE* (G, R, RWD)
When true, the use of online facility registration is permitted.
registrationRequestResponseTimer ATTRIBUTE* (G, R, RWD)
Value for Timer T28 (Registration Request Response Timer) in seconds
registrationRequestRetransmissionCount ATTRIBUTE* (G, R, RWD)
Value for count R28 (Registration Request Retransmission Count)
rejectResponseTimer ATTRIBUTE* (G, R, RWD)
Value for Timer T27 (Reject Response Timer) in seconds
rejectRetransmissionCount ATTRIBUTE* (G, R, RWD)
Value for count R27 (Reject Retransmission Count)
remotelyInitiatedResets ATTRIBUTE* (G)
Counter associated with the remotelyInitiatedReset event
remotelyInitiatedRestarts ATTRIBUTE* (G)
Counter of the number of remotely initiated restarts.
resetRequestResponseTimer ATTRIBUTE (G, R, RWD)
Value for Timer T22 (Reset Request Response Timer) in seconds
resetRequestRetransmissionCount ATTRIBUTE (G, R, RWD)
Value for count R22 (Reset Request Retransmission Count)
resetTimeouts ATTRIBUTE* (G)
Counter of the number of timer T22 expiries experienced
restartCountsExceeded ATTRIBUTE* (G)
Counter associated with the restartCountExceeded event
restartRequestResponseTimer ATTRIBUTE (G, R, RWD)
Value for Timer T20 (Restart Request Response Timer) in seconds
restartRequestRetransmissionCount ATTRIBUTE (G, R, RWD)
Value for count R20 (Restart Request Retransmission Count)

sN-SAP ATTRIBUTE (G)
Distinguished name of the service provider SAP MO
sN-ServiceProvider ATTRIBUTE (G, R, RWD)
Distinguished name of the N service provider MO.
throughputClassNegotiation ATTRIBUTE (G, R, RWD)
The subscription of the throughput class negotiation facility
windowRotationTimer ATTRIBUTE* (G, R, RWD)
Default for Timer T25 (Window Rotation Timer) in seconds
windowStatusTransmissionTimer ATTRIBUTE* (G, R, RWD)
Value for Timer T24 (Window Status Transmission Timer) in seconds
x25PLEId ATTRIBUTE (G)
The name of this instance of x25PLE MO
x25PLEMode ATTRIBUTE (G, R)
The DCE/DTE mode in which the X.25 PLE is currently operating.
END MANAGED OBJECT CLASS x25PLE-DTE

MANAGED OBJECT CLASS x25PLE-DCE DERIVED FROM (x25PLE)
DMI:administrativeState ATTRIBUTE (G, R)
DMI:objectCreation NOTIFICATION
DMI:objectDeletion NOTIFICATION
DMI:octetsReceivedCounter ATTRIBUTE* (G)
DMI:octetsSentCounter ATTRIBUTE* (G)
DMI:operationalState ATTRIBUTE (G)
DMI:stateChange NOTIFICATION
GMI:activate ACTION
GMI:deactivate ACTION
bilateralCUG ATTRIBUTE* (G, R, RWD)
The subscription of the bilateral closed user group facility
bilateralCUGWithOutgoingAccess ATTRIBUTE* (G, R, RWD)
The subscription of the bilateral CUG with outgoing access facility
cUG ATTRIBUTE (G, R, RWD)
The subscription of the closed user group facility
cUGWithIncomingAccess ATTRIBUTE* (G, R, RWD)
The subscription of the closed user group with incoming access facility
cUGWithOutgoingAccess ATTRIBUTE* (G, R, RWD)
The subscription of the CUG with outgoing access facility
callAttempts ATTRIBUTE (G)
Counter of the total number of calls attempted
callDeflectionSubscription ATTRIBUTE* (G, R, RWD)
The subscription of the call deflection facility
callRedirection ATTRIBUTE* (G, R, RWD)
The subscription of the call redirection facility
callsConnected ATTRIBUTE (G)
Counter of the total number of calls which have reached the open state
chargingInformation ATTRIBUTE* (G, R, RWD)
The subscription of the charging information facility
clearIndication ATTRIBUTE* (G, R)
Value for the Clear Indication, T13 timer, in seconds.
dBitModification ATTRIBUTE* (G, R, RWD)
The subscription of the D bit modification facility
dataPacketsReceived ATTRIBUTE* (G)
Counter of the total number of data packets received
dataPacketsSent ATTRIBUTE* (G)
Counter of the total number of data packets sent
defaultPacketSizes ATTRIBUTE (G, R, RWD)
The default value of the packet sizes.
defaultThroughputClasses ATTRIBUTE (G, R, RWD)
The default throughput class values.
defaultThroughputClassesAssignment ATTRIBUTE* (G, R, RWD)
The subscription of the default throughput classes assignment facility
defaultWindowSizes ATTRIBUTE (G, R, RWD)
The default value of the window sizes.
extendedPacketSequenceNumbering ATTRIBUTE* (G, R, RWD)
The modulo of the packet sequence number space.
fastSelectAcceptance ATTRIBUTE (G, R, RWD)
The subscription of the fast select acceptance
flowControlParameterNegotiation ATTRIBUTE (G, R, RWD)

The subscription of the flow control parameter negotiation facility
huntGroup ATTRIBUTE* (G, R, RWD)
The subscription of the hunt group facility
incomingCall ATTRIBUTE* (G, R)
Value for the Incoming Call, T11 timer, in seconds.
incomingCallBarredWithinCUG ATTRIBUTE* (G, R, RWD)
The subscription of the incoming call barred within a CUG facility
incomingCallsBarred ATTRIBUTE (G, R, RWD)
The subscription of the incoming calls barred facility
interruptPacketsReceived ATTRIBUTE* (G)
Counter of the number of interrupt packets received
interruptPacketsSent ATTRIBUTE* (G)
Counter of the number of interrupt packets sent
interruptTimerExpiries ATTRIBUTE* (G)
Counter of the number of expiries of timer T26
localChargingPrevention ATTRIBUTE* (G, R, RWD)
The subscription of the local charging prevention facility
localDTEAddress ATTRIBUTE (G, R)
The full DTE address of this PLE
logicalChannelAssignments ATTRIBUTE (G, R)
Represents the logical channel assignments of this PLE,
nUIOverride ATTRIBUTE* (G, R, RWD)
The subscription of the NUI override facility
nUISubscription ATTRIBUTE* (G, R, RWD)
The subscription of the NUI subscription facility
nonStandardDefaultPacketSizes ATTRIBUTE* (G, R, RWD)
The subscription of the non standard default packet sizes facility
nonStandardDefaultWindowSizes ATTRIBUTE* (G, R, RWD)
The subscription of the non standard default window sizes facility
oneWayLogicalChannelIncoming ATTRIBUTE* (G, R, RWD)
The subscription of the one way logical channel incoming facility
oneWayLogicalChannelOutgoing ATTRIBUTE (G, R, RWD)
The subscription of the one way logical channel outgoing facility
onlineFacilityRegistration ATTRIBUTE* (G, R, RWD)
The subscription of the on-line facility registration facility
outgoingCallBarredWithinCUG ATTRIBUTE* (G, R, RWD)
The subscription of the outgoing call barred with a CUG facility
outgoingCallsBarred ATTRIBUTE (G, R, RWD)
The subscription of the outgoing calls barred facility
packetRetransmission ATTRIBUTE* (G, R, RWD)
The subscription of the packet retransmissions facility
protocolVersionSupported ATTRIBUTE (G)
The supported Recommendation | International Standard protocol version
providerInitiatedDisconnects ATTRIBUTE* (G)
Counter for the providerInitiatedDisconnect events
providerInitiatedResets ATTRIBUTE* (G)
Counter associated with the providerInitiatedReset event
rPOASubscription ATTRIBUTE* (G, R, RWD)
The subscription of the RPOA Subscription facility
remotelyInitiatedResets ATTRIBUTE* (G)
Counter associated with the remotelyInitiatedReset event
remotelyInitiatedRestarts ATTRIBUTE* (G)
Counter of the number of remotely initiated restarts.
resetIndication ATTRIBUTE* (G, R)
Value for the Reset Indication, T12 timer, in seconds.
resetTimeouts ATTRIBUTE* (G)
Counter of the number of timer T22 expiries experienced
restartIndication ATTRIBUTE* (G, R)
Value for the Restart Indication, T10 timer, in seconds.
reverseChargingAcceptance ATTRIBUTE* (G, R, RWD)
The subscription of the reverse charging acceptance facility
sN-SAP ATTRIBUTE (G)
Distinguished name of the service provider SAP MO
sN-ServiceProvider ATTRIBUTE (G, R, RWD)
Distinguished name of the SN service provider MO.
throughputClassNegotiation ATTRIBUTE (G, R, RWD)
The subscription of the throughput class negotiation facility

x25PLEId ATTRIBUTE (G)
The name of this instance of x25PLE MO
x25PLEMode ATTRIBUTE (G, R)
The DCE/DTE mode in which the X.25 PLE is currently operating.
x25SegmentsReceived ATTRIBUTE* (G)
Value for count of X.25 Segments Received.
x25SegmentsSent ATTRIBUTE* (G)
Value for count of X.25 Segments Sent.
END MANAGED OBJECT CLASS x25PLE-DCE

MANAGED OBJECT CLASS x25PLEIVMO-DTE DERIVED FROM (x25PLEIVMO)
DMI:objectCreation NOTIFICATION
DMI:objectDeletion NOTIFICATION
callDeflectionSubscription ATTRIBUTE (G, R, RWD)
The subscription of the call deflection facility
callRequestResponseTimer ATTRIBUTE (G, R, RWD)
Value for Timer T21 (Call Request Response Timer)
clearRequestResponseTimer ATTRIBUTE (G, R, RWD)
Value for Timer T23 (Clear Request Response Timer)
clearRequestRetransmissionCount ATTRIBUTE (G, R, RWD)
Value for count R23 (Clear Request Retransmission Count)
dataPacketRetransmissionCount ATTRIBUTE* (G, R, RWD)
Value for count R25 (Data Packet Retransmission Count)
defaultPacketSizes ATTRIBUTE (G, R, RWD)
The default value of the packet sizes.
defaultThroughputClasses ATTRIBUTE (G, R, RWD)
The default throughput class values.
defaultWindowSizes ATTRIBUTE (G, R, RWD)
The default value of the window sizes.
extendedPacketSequenceNumbering ATTRIBUTE (G, R, RWD)
The modulo of the packet sequence number space.
flowControlParameterNegotiation ATTRIBUTE (G, R, RWD)
The subscription of the flow control parameter negotiation facility
interruptResponseTimer ATTRIBUTE (G, R, RWD)
Value for Timer T26 (Interrupt Response Timer) in seconds
localDTEAddress ATTRIBUTE (G, R)
The full DTE address of this PLE
logicalChannelAssignments ATTRIBUTE (G, R)
Represents the logical channel assignments of this PLE,
maxActiveCircuits ATTRIBUTE (G, R, RWD)
The maximum number of active circuits permitted on this PLE.
minimumRecallTimer ATTRIBUTE (G, R, RWD)
Minimum time in seconds before recall permitted.
registrationPermitted ATTRIBUTE* (G, R, RWD)
When true, the use of online facility registration is permitted.
registrationRequestResponseTimer ATTRIBUTE* (G, R, RWD)
Value for Timer T28 (Registration Request Response Timer) in seconds
registrationRequestRetransmissionCount ATTRIBUTE* (G, R, RWD)
Value for count R28 (Registration Request Retransmission Count)
rejectResponseTimer ATTRIBUTE* (G, R, RWD)
Value for Timer T27 (Reject Response Timer) in seconds
rejectRetransmissionCount ATTRIBUTE* (G, R, RWD)
Value for count R27 (Reject Retransmission Count)
resetRequestResponseTimer ATTRIBUTE (G, R, RWD)
Value for Timer T22 (Reset Request Response Timer) in seconds
resetRequestRetransmissionCount ATTRIBUTE (G, R, RWD)
Value for count R22 (Reset Request Retransmission Count)
restartRequestResponseTimer ATTRIBUTE (G, R, RWD)
Value for Timer T20 (Restart Request Response Timer) in seconds
restartRequestRetransmissionCount ATTRIBUTE (G, R, RWD)
Value for count R20 (Restart Request Retransmission Count)
sN-ServiceProvider ATTRIBUTE (G, R)
Distinguished name of the SN service provider MO.
throughputClassNegotiation ATTRIBUTE (G, R, RWD)
The subscription of the throughput class negotiation facility
windowRotationTimer ATTRIBUTE* (G, R, RWD)
Default for Timer T25 (Window Rotation Timer) in seconds

windowStatusTransmissionTimer ATTRIBUTE* (G, R, RWD)
Value for Timer T24 (Window Status Transmission Timer) in seconds
x25PLEIVMOId ATTRIBUTE (G)
The name of this instance of x25PLE IVMO
x25PLEMode ATTRIBUTE (G, R)
The DCE/DTE mode in which the X.25 PLE is currently operating.
END MANAGED OBJECT CLASS x25PLEIVMO-DTE

MANAGED OBJECT CLASS x25PLEIVMO-DCE DERIVED FROM (x25PLEIVMO)
DMI:objectCreation NOTIFICATION
DMI:objectDeletion NOTIFICATION
defaultPacketSizes ATTRIBUTE (G, R, RWD)
The default value of the packet sizes.
defaultThroughputClasses ATTRIBUTE (G, R, RWD)
The default throughput class values.
defaultWindowSizes ATTRIBUTE (G, R, RWD)
The default value of the window sizes.
flowControlParameterNegotiation ATTRIBUTE (G, R, RWD)
The subscription of the flow control parameter negotiation facility
localDTEAddress ATTRIBUTE (G, R)
The full DTE address of this PLE
logicalChannelAssignments ATTRIBUTE (G, R)
Represents the logical channel assignments of this PLE,
sN-ServiceProvider ATTRIBUTE (G, R)
Distinguished name of the SN service provider MO.
throughputClassNegotiation ATTRIBUTE (G, R, RWD)
The subscription of the throughput class negotiation facility
x25PLEIVMOId ATTRIBUTE (G)
The name of this instance of x25PLE IVMO
x25PLEMode ATTRIBUTE (G, R)
The DCE/DTE mode in which the X.25 PLE is currently operating.
END MANAGED OBJECT CLASS x25PLEIVMO-DCE

MANAGED OBJECT CLASS virtualCircuit DERIVED FROM (DMI:top)
DMI:objectCreation NOTIFICATION
DMI:objectDeletion NOTIFICATION
logicalChannel ATTRIBUTE (G)
The actual Logical Channel ID used for the call
packetSizes ATTRIBUTE (G)
The packet sizes for this VC.
throughputClasses ATTRIBUTE (G)
The throughput classes in use or to be used.
virtualCircuitId ATTRIBUTE (G)
The name of this instance of virtualCircuit MO or subclass
windowSizes ATTRIBUTE (G)
The actual window sizes in use for this VC
END MANAGED OBJECT CLASS virtualCircuit

MANAGED OBJECT CLASS virtualCircuit-DTE DERIVED FROM (virtualCircuit)
DMI:objectCreation NOTIFICATION
DMI:objectDeletion NOTIFICATION
DMI:octetsReceivedCounter ATTRIBUTE* (G)
DMI:octetsSentCounter ATTRIBUTE* (G)
dataPacketsReceived ATTRIBUTE* (G)
Counter of the total number of data packets received
dataPacketsSent ATTRIBUTE* (G)
Counter of the total number of data packets sent
dataRetransmissionTimerExpiries ATTRIBUTE* (G)
Counter of the number of expiries of timer T25.
interruptPacketsReceived ATTRIBUTE* (G)
Counter of the number of interrupt packets received
interruptPacketsSent ATTRIBUTE* (G)
Counter of the number of interrupt packets sent

interruptTimerExpiries ATTRIBUTE* (G)
Counter of the number of expiries of timer T26
logicalChannel ATTRIBUTE (G)
The actual Logical Channel ID used for the call
packetSizes ATTRIBUTE (G)
The packet sizes for this VC.
providerInitiatedResets ATTRIBUTE* (G)
Counter associated with the providerInitiatedReset event
remotelyInitiatedResets ATTRIBUTE* (G)
Counter associated with the remotelyInitiatedReset event
resetTimeouts ATTRIBUTE* (G)
Counter of the number of timer T22 expiries experienced
throughputClasses ATTRIBUTE (G)
The throughput classes in use or to be used.
virtualCircuitId ATTRIBUTE (G)
The name of this instance of virtualCircuit MO or subclass
windowSizes ATTRIBUTE (G)
The actual window sizes in use for this VC
END MANAGED OBJECT CLASS virtualCircuit-DTE

MANAGED OBJECT CLASS virtualCircuit-DCE DERIVED FROM (virtualCircuit)
DMI:objectCreation NOTIFICATION
DMI:objectDeletion NOTIFICATION
DMI:octetsReceivedCounter ATTRIBUTE* (G)
DMI:octetsSentCounter ATTRIBUTE* (G)
dataPacketsReceived ATTRIBUTE* (G)
Counter of the total number of data packets received
dataPacketsSent ATTRIBUTE* (G)
Counter of the total number of data packets sent
interruptPacketsReceived ATTRIBUTE* (G)
Counter of the number of interrupt packets received
interruptPacketsSent ATTRIBUTE* (G)
Counter of the number of interrupt packets sent
interruptTimerExpiries ATTRIBUTE* (G)
Counter of the number of expiries of timer T26
logicalChannel ATTRIBUTE (G)
The actual Logical Channel ID used for the call
packetSizes ATTRIBUTE (G)
The packet sizes for this VC.
providerInitiatedDisconnects ATTRIBUTE* (G)
Counter for the providerInitiatedDisconnect events
providerInitiatedResets ATTRIBUTE* (G)
Counter associated with the providerInitiatedReset event
remotelyInitiatedResets ATTRIBUTE* (G)
Counter associated with the remotelyInitiatedReset event
remotelyInitiatedRestarts ATTRIBUTE* (G)
Counter of the number of remotely initiated restarts.
resetTimeouts ATTRIBUTE* (G)
Counter of the number of timer T22 expiries experienced
throughputClasses ATTRIBUTE (G)
The throughput classes in use or to be used.
virtualCircuitId ATTRIBUTE (G)
The name of this instance of virtualCircuit MO or subclass
windowSizes ATTRIBUTE (G)
The actual window sizes in use for this VC
x25SegmentsReceived ATTRIBUTE* (G)
Value for count of X.25 Segments Received.
x25SegmentsSent ATTRIBUTE* (G)
Value for count of X.25 Segments Sent.
END MANAGED OBJECT CLASS virtualCircuit-DCE

MANAGED OBJECT CLASS permanentVirtualCircuit-DTE DERIVED FROM (virtualCircuit-DTE) CONTAINED IN (x25PLE-DTE)
DMI:objectCreation NOTIFICATION
DMI:objectDeletion NOTIFICATION
DMI:octetsReceivedCounter ATTRIBUTE* (G)

DMI:octetsSentCounter ATTRIBUTE* (G)
dataPacketsReceived ATTRIBUTE* (G)
Counter of the total number of data packets received
dataPacketsSent ATTRIBUTE* (G)
Counter of the total number of data packets sent
dataRetransmissionTimerExpiries ATTRIBUTE* (G)
Counter of the number of expiries of timer T25.
interruptPacketsReceived ATTRIBUTE* (G)
Counter of the number of interrupt packets received
interruptPacketsSent ATTRIBUTE* (G)
Counter of the number of interrupt packets sent
interruptTimerExpiries ATTRIBUTE (G)
Counter of the number of expiries of timer T26
logicalChannel ATTRIBUTE (G)
The actual Logical Channel ID used for the call
packetSizes ATTRIBUTE (G)
The packet sizes for this VC.
providerInitiatedResets ATTRIBUTE* (G)
Counter associated with the providerInitiatedReset event
remotelyInitiatedResets ATTRIBUTE* (G)
Counter associated with the remotelyInitiatedReset event
resetTimeouts ATTRIBUTE (G)
Counter of the number of timer T22 expiries experienced
throughputClasses ATTRIBUTE (G)
The throughput classes in use or to be used.
virtualCircuitId ATTRIBUTE (G)
The name of this instance of virtualCircuit MO or subclass
windowSizes ATTRIBUTE (G)
The actual window sizes in use for this VC
END MANAGED OBJECT CLASS permanentVirtualCircuit-DTE

MANAGED OBJECT CLASS permanentVirtualCircuit-DCE DERIVED FROM (virtualCircuit-DCE) CONTAINED IN (x25PLE-DCE)
DMI:objectCreation NOTIFICATION
DMI:objectDeletion NOTIFICATION
DMI:octetsReceivedCounter ATTRIBUTE* (G)
DMI:octetsSentCounter ATTRIBUTE* (G)
DMI:operationalState ATTRIBUTE (G)
DMI:stateChange NOTIFICATION
chargingDirection ATTRIBUTE (G)
Indicates the use of the charging direction facility
dataPacketsReceived ATTRIBUTE* (G)
Counter of the total number of data packets received
dataPacketsSent ATTRIBUTE* (G)
Counter of the total number of data packets sent
interruptPacketsReceived ATTRIBUTE* (G)
Counter of the number of interrupt packets received
interruptPacketsSent ATTRIBUTE* (G)
Counter of the number of interrupt packets sent
interruptTimerExpiries ATTRIBUTE (G)
Counter of the number of expiries of timer T26
logicalChannel ATTRIBUTE (G)
The actual Logical Channel ID used for the call
packetSizes ATTRIBUTE (G)
The packet sizes for this VC.
providerInitiatedDisconnects ATTRIBUTE* (G)
Counter for the providerInitiatedDisconnect events
providerInitiatedResets ATTRIBUTE* (G)
Counter associated with the providerInitiatedReset event
remoteDTEAddress ATTRIBUTE (G)
The DTE Address of the remote DTE.
remoteLogicalChannel ATTRIBUTE (G)
The Remote Logical Channel ID for the Permanent Virtual Circuit.
remotelyInitiatedResets ATTRIBUTE* (G)
Counter associated with the remotelyInitiatedReset event
remotelyInitiatedRestarts ATTRIBUTE* (G)
Counter of the number of remotely initiated restarts.

resetTimeouts ATTRIBUTE (G)
Counter of the number of timer T22 expiries experienced
throughputClasses ATTRIBUTE (G)
The throughput classes in use or to be used.
virtualCircuitId ATTRIBUTE (G)
The name of this instance of virtualCircuit MO or subclass
windowSizes ATTRIBUTE (G)
The actual window sizes in use for this VC
x25SegmentsReceived ATTRIBUTE* (G)
Value for count of X.25 Segments Received.
x25SegmentsSent ATTRIBUTE* (G)
Value for count of X.25 Segments Sent.
END MANAGED OBJECT CLASS permanentVirtualCircuit-DCE

MANAGED OBJECT CLASS virtualCallIVMO DERIVED FROM (DMI:top) CONTAINED IN (x25PLE)
DMI:objectCreation NOTIFICATION
DMI:objectDeletion NOTIFICATION
fastSelect ATTRIBUTE (G, R, RWD)
Type of fast select used or to be used for call.
packetSizes ATTRIBUTE (G, R, RWD)
The packet sizes for this VC.
reverseCharging ATTRIBUTE (G, R, RWD)
Use of reverse charging.
throughputClasses ATTRIBUTE (G, R, RWD)
The throughput classes in use or to be used.
virtualCallIVMOId ATTRIBUTE (G)
The name of this instance of virtualCallIVMO
windowSizes ATTRIBUTE (G, R, RWD)
The actual window sizes in use for this VC
END MANAGED OBJECT CLASS virtualCallIVMO

MANAGED OBJECT CLASS virtualCall-DTE DERIVED FROM (virtualCircuit-DTE) CONTAINED IN (x25PLE-DTE)
DMI:objectCreation NOTIFICATION
DMI:objectDeletion NOTIFICATION
DMI:octetsReceivedCounter ATTRIBUTE* (G)
DMI:octetsSentCounter ATTRIBUTE* (G)
GMI:communicationsInformation NOTIFICATION
GMI:deactivate ACTION
calledAddressExtension ATTRIBUTE (G)
The contents of the called address extension field.
callingAddressExtension ATTRIBUTE (G)
The contents of the calling address extension field.
dataPacketsReceived ATTRIBUTE* (G)
Counter of the total number of data packets received
dataPacketsSent ATTRIBUTE* (G)
Counter of the total number of data packets sent
dataRetransmissionTimerExpiries ATTRIBUTE* (G)
Counter of the number of expiries of timer T25.
direction ATTRIBUTE (G)
The direction (incoming or outgoing) of the call
fastSelect ATTRIBUTE (G)
Type of fast select used or to be used for call.
interruptPacketsReceived ATTRIBUTE* (G)
Counter of the number of interrupt packets received
interruptPacketsSent ATTRIBUTE* (G)
Counter of the number of interrupt packets sent
interruptTimerExpiries ATTRIBUTE* (G)
Counter of the number of expiries of timer T26
logicalChannel ATTRIBUTE (G)
The actual Logical Channel ID used for the call
originallyCalledAddress ATTRIBUTE (G)
The originally called address
packetSizes ATTRIBUTE (G)
The packet sizes for this VC.
providerInitiatedResets ATTRIBUTE* (G)
Counter associated with the providerInitiatedReset event
redirectReason ATTRIBUTE (G)
The reason why the call has been redirected.

remoteDTEAddress ATTRIBUTE (G)
The DTE Address of the remote DTE.
remotelyInitiatedResets ATTRIBUTE* (G)
Counter associated with the remotelyInitiatedReset event
resetTimeouts ATTRIBUTE* (G)
Counter of the number of timer T22 expiries experienced
reverseCharging ATTRIBUTE (G)
Use of reverse charging.
throughputClasses ATTRIBUTE (G)
The throughput classes in use or to be used.
virtualCircuitId ATTRIBUTE (G)
The name of this instance of virtualCircuit MO or subclass
windowSizes ATTRIBUTE (G)
The actual window sizes in use for this VC
END MANAGED OBJECT CLASS virtualCall-DTE

MANAGED OBJECT CLASS virtualCall-DCE DERIVED FROM (virtualCircuit-DCE) CONTAINED IN (x25PLE-DCE)
DMI:objectCreation NOTIFICATION
DMI:objectDeletion NOTIFICATION
DMI:octetsReceivedCounter ATTRIBUTE* (G)
DMI:octetsSentCounter ATTRIBUTE* (G)
GMI:communicationsInformation NOTIFICATION
GMI:deactivate ACTION
bilateralCUGSelection ATTRIBUTE* (G)
Indicates the use of the bilateral closed user group selection facility
cUGSelection ATTRIBUTE (G)
Indicates the use of the closed user group selection facility
cUGWithOutgoingAccessSelection ATTRIBUTE* (G)
Indicates the use of the Closed User Group With Outgoing Access Selection facility
callRedirectionDeflectionNotification ATTRIBUTE* (G)
Indicates the use of the call redirection deflection notification facility
calledLineAddressModifiedNotification ATTRIBUTE* (G)
Indicates the use of the called line address modified notification facility
chargingDirection ATTRIBUTE (G)
Indicates the use of the charging direction facility
dataPacketsReceived ATTRIBUTE* (G)
Counter of the total number of data packets received
dataPacketsSent ATTRIBUTE* (G)
Counter of the total number of data packets sent
direction ATTRIBUTE (G)
The direction (incoming or outgoing) of the call
fastSelect ATTRIBUTE (G)
Type of fast select used or to be used for call.
interruptPacketsReceived ATTRIBUTE* (G)
Counter of the number of interrupt packets received
interruptPacketsSent ATTRIBUTE* (G)
Counter of the number of interrupt packets sent
interruptTimerExpiries ATTRIBUTE* (G)
Counter of the number of expiries of timer T26
logicalChannel ATTRIBUTE (G)
The actual Logical Channel ID used for the call
nUISelection ATTRIBUTE* (G)
Indicates the use of the network user identification selection facility
packetSizes ATTRIBUTE (G)
The packet sizes for this VC.
providerInitiatedDisconnects ATTRIBUTE* (G)
Counter for the providerInitiatedDisconnect events
providerInitiatedResets ATTRIBUTE* (G)
Counter associated with the providerInitiatedReset event
rOASelection ATTRIBUTE* (G)
Indicates the use of the registered operating agency selection
remoteDTEAddress ATTRIBUTE (G)
The DTE Address of the remote DTE.
remotelyInitiatedResets ATTRIBUTE* (G)
Counter associated with the remotelyInitiatedReset event
remotelyInitiatedRestarts ATTRIBUTE* (G)
Counter of the number of remotely initiated restarts.

resetTimeouts ATTRIBUTE* (G)
Counter of the number of timer T22 expiries experienced
reverseCharging ATTRIBUTE* (G)
Use of reverse charging.
throughputClasses ATTRIBUTE (G)
The throughput classes in use or to be used.
transitDelaySelectionAndIndication ATTRIBUTE (G)
Indicates the use of the transit delay selection and
virtualCircuitId ATTRIBUTE (G)
The name of this instance of virtualCircuit MO or subclass
windowSizes ATTRIBUTE (G)
The actual window sizes in use for this VC
x25SegmentsReceived ATTRIBUTE* (G)
Value for count of X.25 Segments Received.
x25SegmentsSent ATTRIBUTE* (G)
Value for count of X.25 Segments Sent.
END MANAGED OBJECT CLASS virtualCall-DCE

MANAGED OBJECT CLASS dSeriesCounts DERIVED FROM (DMI:top) CONTAINED IN (virtualCall-DCE)
DMI:objectCreation NOTIFICATION
DMI:objectDeletion NOTIFICATION
dSeriesId ATTRIBUTE (G)
The name of this instance of the dSeriesCounts MO.
dSeriesResetRequestIndicationPackets ATTRIBUTE (G)
Value for count of Reset Request or Indication Packets
dSeriesSegmentsReceived ATTRIBUTE (G)
Value for count of Segments Received, in 64 octets,
dSeriesSegmentsSent ATTRIBUTE (G)
Value for count of Segments Sent, in 64 octets,
END MANAGED OBJECT CLASS dSeriesCounts

Annexe C

Exemples d'utilisation d'attributs relationnels

(Cette annexe fait partie intégrante de la présente Recommandation | Norme internationale)

La présente annexe donne des exemples d'utilisation d'attributs relationnels, aussi bien dans la couche Réseau qu'entre cette couche et ses couches adjacentes. Ces exemples ne visent pas l'exhaustivité. Les relations pour d'autres combinaisons de protocoles pourront être construites de façon analogue. Une mise en œuvre particulière peut gérer plusieurs protocoles simultanément, par exemple des connexions de transport dans le service CONS en même temps que des connexions de transport dans le service CLNS. Ces possibilités n'ont pas été reprises pour des raisons de clarté.

Afin d'illustrer l'utilisation de relations intercouches, il a été nécessaire d'insérer des schémas (voir les Figures C.1 à C.3) représentant les objets gérés dans la couche Transport et la couche Liaison de données. Toutefois ces schémas n'ont qu'une valeur indicative et il convient de consulter les Recommandations | Normes internationales relatives à la gestion de la couche concernée pour recueillir toute précision sur ces objets gérés.

Il est à noter que certaines relations sont impliquées par confinement. Aucun attribut relationnel explicite n'est alors requis. Il n'existe par exemple aucune relation entre un objet géré communication virtuelle et un objet géré connexion par protocole SLP sous-jacent. Cette relation peut se déduire de l'attribut sN-ServiceProvider de l'objet géré entité PLE X.25 associé. La relation entre l'objet géré point TSAP et son objet géré associé entité de transport constitue un autre exemple.

Les exemples donnés sont les suivants:

- Figure C.1 – Protocole COTP par service CONS sur réseau X.25.
- Figure C.2 – Protocole COTP par service CLNS sur réseau X.25 dans l'exploitation par le service CLNS, l'attribut underlyingConnectionNames de la connexion de transport a une valeur d'ensemble vide. A noter également que, lorsqu'un lien est exploité par un objet géré point SNPA dans la couche Réseau par opposition à l'exploitation directe dans la couche Liaison de données, les deux attributs relationnels sN-ServiceProvider et sN-SAP Linkage pointent vers le même objet géré dans la couche Réseau.
- Figure C.3 – Protocole COTP par service CLNS sur réseau local à accès multiple avec détection de porteuse et de collision (CSMA/CD).

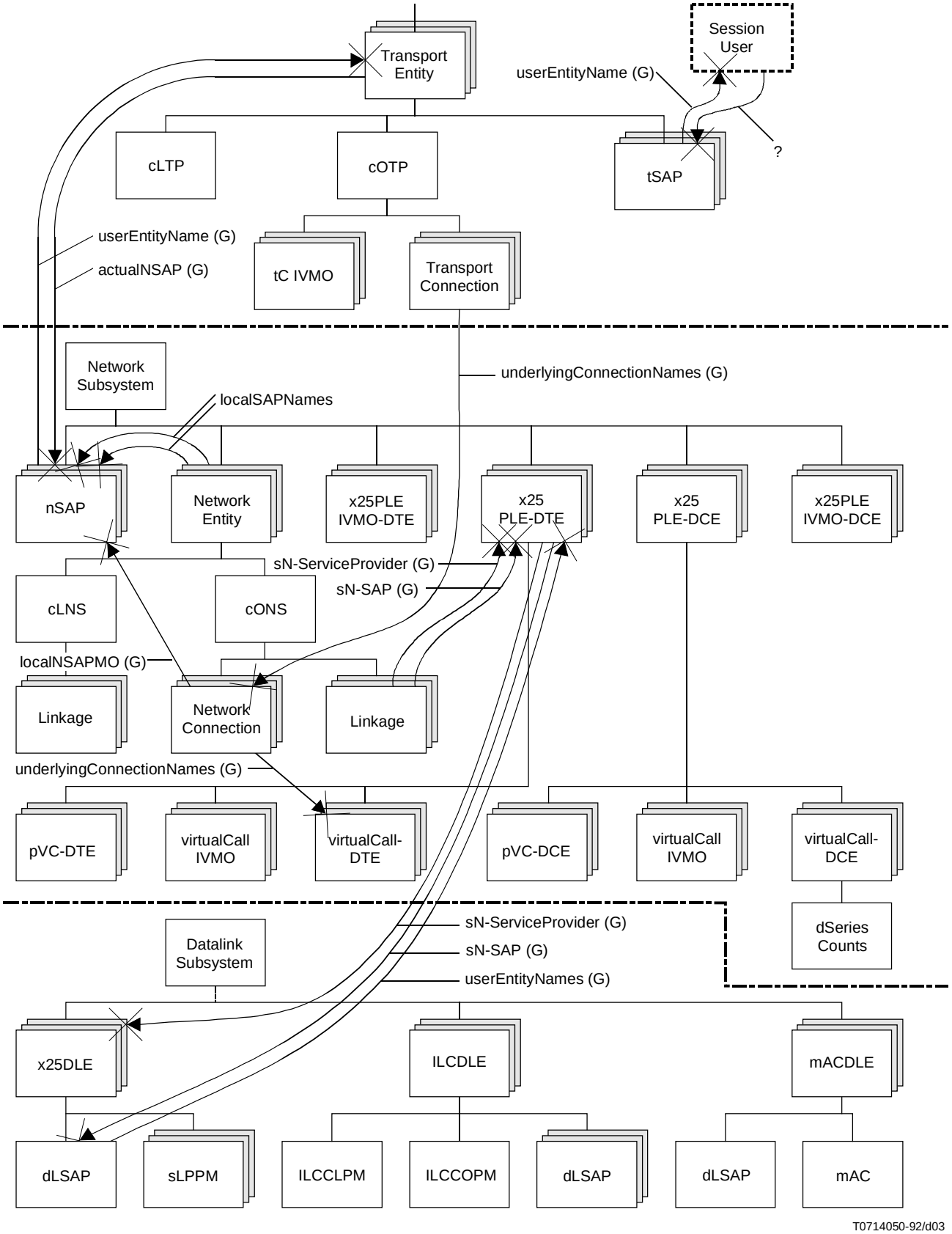

Figure C.1 – Protocole COTP par service CONS sur réseau X.25

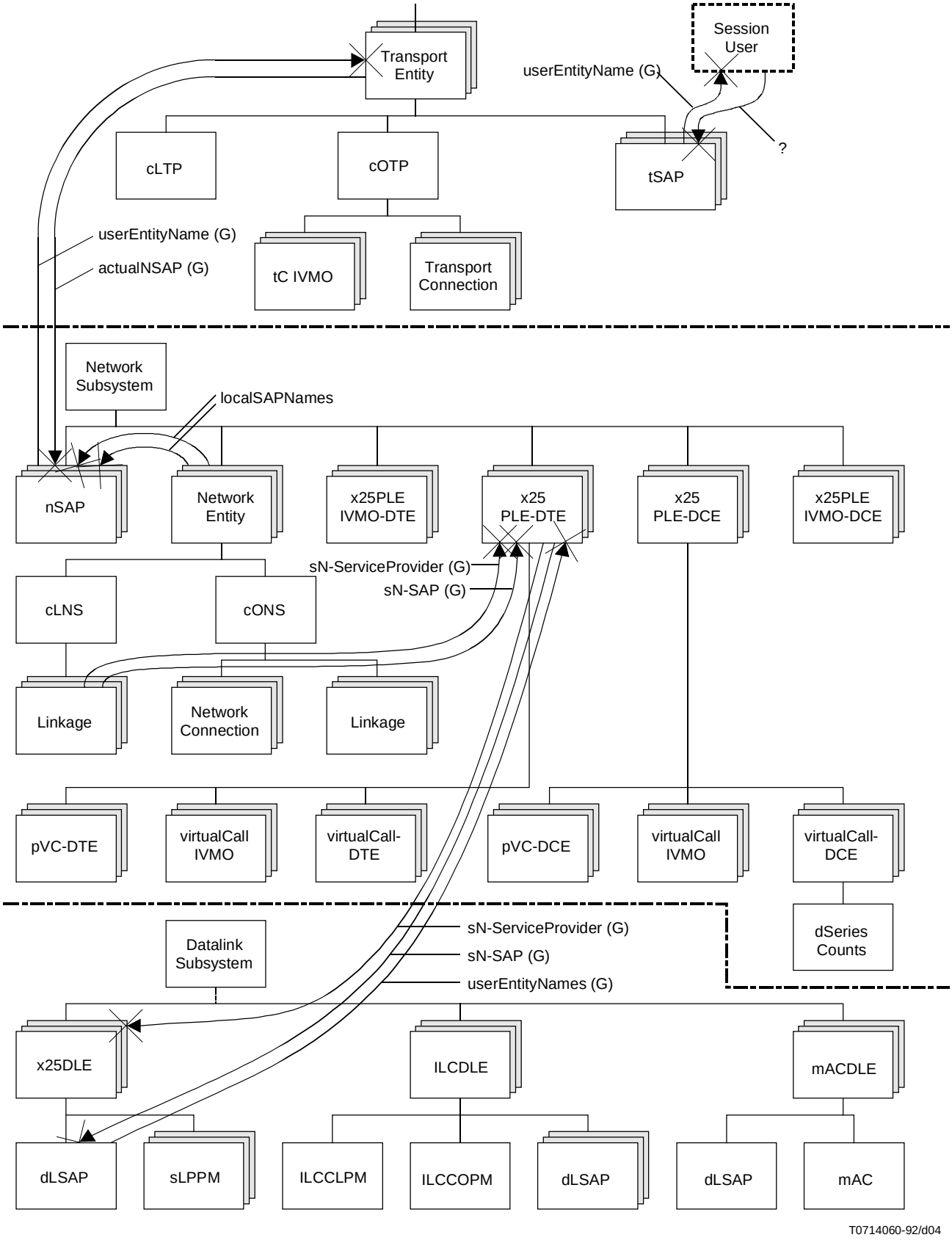

Figure C.2 – Protocole COTP par service CLNS sur réseau X.25

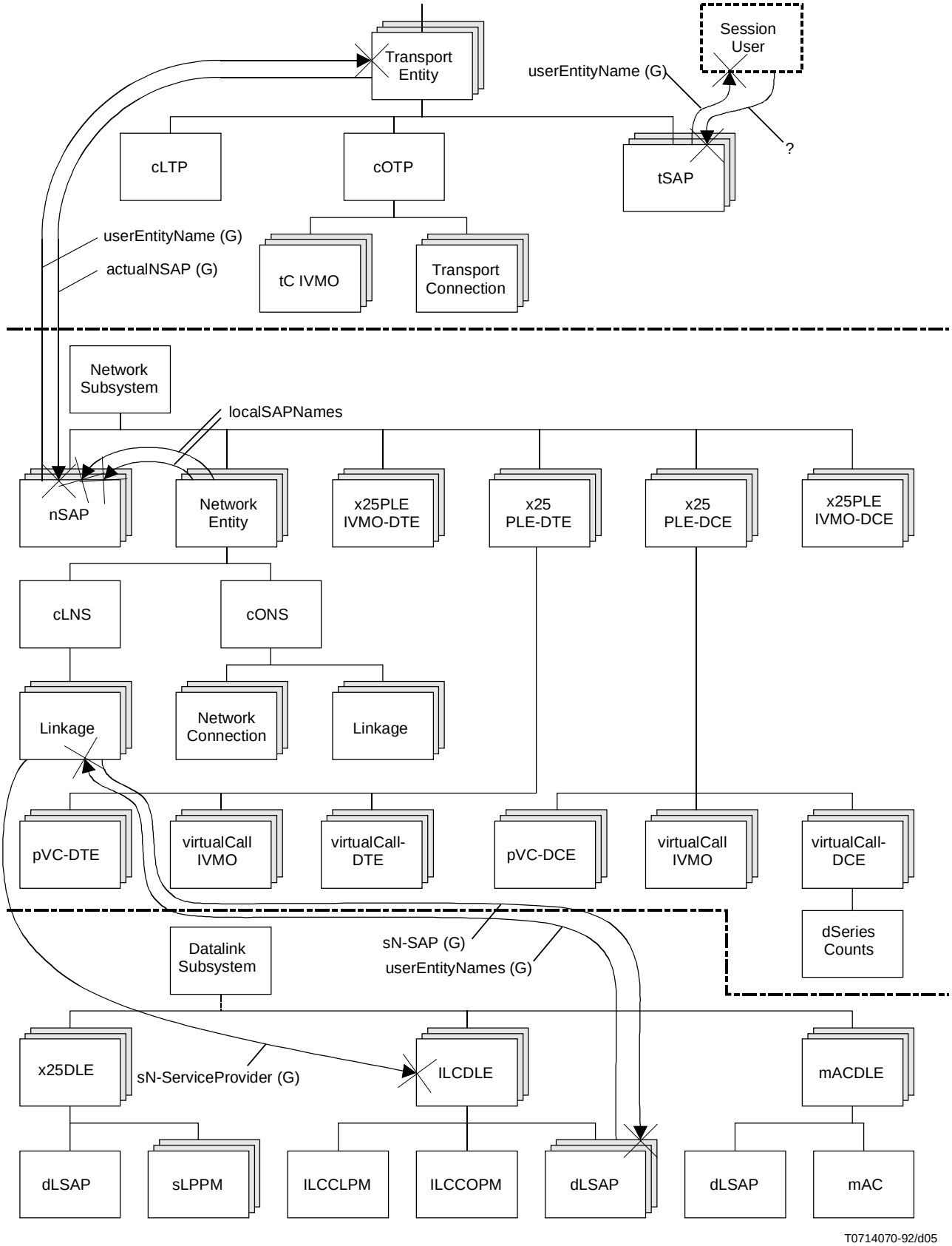

Figure C.3 – Protocole COTP par service CLNS sur CSMA/CD

Annexe D[1)]

Formulaire MCS

(Cette annexe fait partie intégrante de la présente Recommandation | Norme internationale)

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

- m Mandatory
- o Optional
- c Conditional
- x Prohibited
- – Not applicable or out of scope

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

- Y Implemented
- N Not implemented
- – No answer required
- Ig The item is ignored (i.e. processed syntactically but not semantically)

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

---

1) **Droits de reproduction du formulaire MCS**

Les utilisateurs de la présente Recommandation | Norme internationale sont autorisés à reproduire le formulaire MCS de la présente annexe pour l'utiliser conformément à son objet. Ils sont également autorisés à publier le formulaire une fois celui-ci complété.

2) Les instructions permettant de remplir le formulaire MCS sont indiquées dans la Rec. UIT-T X.724 | ISO/CEI 10165-6.

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 | International Standard in which the management information is defined

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

Recommendation | International Standard to which conformance is claimed

D.3.1 Technical corrigenda implemented

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

D.3.2 Amendments implemented

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

D.4 Management conformance summary

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

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

Table D.1 – Roles

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

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

Table D.2 – Protocol

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

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

Table D.3 – Manager role minimum conformance requirement

Index	Item	Status	Support	Additional information
1	Operations on managed objects	c1		
2	Activate action for Connectionless-mode network service managed object	c2		
3	Deactivate action for Connectionless-mode network service managed object	c2		
4	Communications Alarm notification for Connectionless-mode network service managed object	c2		
5	Communications information notification for Connectionless-mode network service managed object	c2		
6	Object creation notification for Connectionless-mode network service managed object	c2		
7	Object deletion notification for Connectionless-mode network service managed object	c2		
8	State change notification for Connectionless-mode network service managed object	c2		
9	Activate action for Connection-mode network service managed object	c3		
10	Deactivate action for Connection-mode network service managed object	c3		
11	Deactivate when no users action for Connection-mode network service managed object	c3		
12	Object creation notification for Connection-mode network service managed object	c3		
13	Object deletion notification for Connection-mode network service managed object	c3		
14	State change notification for Connection-mode network service managed object	c3		
15	Object creation notification for D-Series counts managed object	c1		
16	Object deletion notification for D-Series counts managed object	c1		
17	Activate action for Linkage managed object	c4		
18	Deactivate action for Linkage managed object	c4		
19	Communications Alarm notification for Linkage managed object	c4		
20	Communications information notification for Linkage managed object	c4		

Table D.3 *(continued)*

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

Table D.3 *(concluded)*

Index	Item	Status	Support	Additional information
c1: if D.1/1a then o.3 else – c2: if D.1/1a and D.2/2a then o.3 else – c3: if D.1/1a and D.2/1a then o.3 else – c4: if D.1/1a and (D.2/1a or D.2/2a) then o.3 else – c5: if D.1/1a and D.2/4a then o.3 else – c6: if D.1/1a and D.2/3a then o.3 else – c7: if D.1/1a and (D.2/3a or D.2/4a) then o.3 else –				

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

Table D.4 – Agent role minimum conformance requirement

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

Table D.5 – Logging of event records

Index		Status	Support	Additional information
1	Does the implementation support logging of event records in agent role?	c15		
c15: if D.1/2a then o else –				

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

The supplier of the implementation shall provide information on claims of conformance to any of the Recommendations | International Standards summarized in Tables D.6, D.7 and D.8. 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, D.7 and D.8, the Status column is used to indicate whether the supplier of the implementation is required to complete the referenced tables or referenced items. Conformance requirements are as specified in the referenced tables or referenced items and are not changed by the value of the MCS Status column. Similarly, the Support column is used by the supplier of the implementation to indicate completion of the referenced tables or referenced items.

Table D.6 – MOCS support summary

Index	Identification of the document that includes the MOCS proforma	Table numbers of MOCS proforma	Description	Con-straints and values	Status	Support	Table numbers of MOCS	Addi-tional infor-mation
1	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table F.1-F.8	cLNS	–	c16			
2	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table F.9-F.15	cONS	–	c17			
3	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table F.16-F.21	dSeriesCounts	–	c18			
4	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table F.22-F.29	linkage	–	c19			
5	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table F.30-F.34	nSAP	–	c20			
6	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table F.35-F.40	networkConnection	–	c21			
7	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table F.41-F.45	networkEntity	–	c22			
8	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table F.46-F.49	networkSubsystem	–	m			
9	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table F.50-F.55	permanentVirtualCircuit-DCE	–	c23			
10	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table F.56-F.61	permanentVirtualCircuit-DTE	–	c24			
11	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table F.62-F.68	virtualCall-DCE	–	c25			
12	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table F.69-F.75	virtualCall-DTE	–	c26			
13	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table F.76-F.80	virtualCallIVMO	–	c27			
14	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table F.81-F.87	x25PLE-DCE	–	c28			
15	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table F.88-F.95	x25PLE-DTE	–	c29			
16	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table F.96-F.100	x25PLEIVMO-DCE	–	c30			
17	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table F.101-F.105	x25PLEIVMO-DTE	–	c31			
18	"ITU-T Rec. X.284 | ISO/IEC 10737"	Table F.44-F.47	communicationInformationRecord	–	c32			
19	"CCITT Rec. X.730 (1992) | ISO/IEC 10164-1:1993"	Table C.1-C.4	objectCreationRecord	–	c33			
20	"CCITT Rec. X.730 (1992) | ISO/IEC 10164-1:1993"	Table C.5-C.8	objectDeletionRecord	–	c33			
21	"CCITT Rec. X.731 (1992) | ISO/IEC 10164-2:1992"	Table C.1-C.4	stateChangeRecord	–	c34			
22	"CCITT Rec. X.733 (1992) | ISO/IEC 10164-4:1992"	Table C.1-C.4	alarmRecord	–	c35			

c16: if D.4/4a then m else –
c17: if D.4/6a then m else –
c18: if D.4/17a then m else –
c19: if D.4/5a then m else –
c20: if D.4/3a then m else –
c21: if D.4/7a then m else –
c22: if D.4/2a then m else –
c23: if D.4/13a then m else –
c24: if D.4/12a then m else –
c25: if D.4/16a then m else –
c26: if D.4/15a then m else –
c27: if D.4/14a then m else –
c28: if D.4/9a then m else –
c29: if D.4/8a then m else –
c30: if D.4/11a then m else –
c31: if D.4/10a then m else –
c32: if D.5/1a and (D.4/4a or D.4/5a or D.4/7a or D.4/15a or D.4/16a) then m else –
c33: if D.5/1a then m else –
c34: if D.5/1a and (D.4/4a or D.4/5a or D.4/6a or D.4/8a or D.4/9a or D.4/13a) then m else –
c35: if D.5/1a and (D.4/4a or D.4/5a or D.4/8a) then m else –

Table D.7 – MRCS support summary

Index	Identification of the document that includes the MOCS proforma	Table numbers of MOCS proforma	Description	Con-straints and values	Status	Support	Table numbers of MRCS	Addi-tional infor-mation
1	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/1	cLNS-networkEntity-Automatic	–	c36			
2	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/2	cLNS-networkEntity-Management	–	c36			
3	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/3	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": clProtocolMachine-entity	–	c36			
4	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/4	cONS-networkEntity-Automatic	–	c37			
5	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/5	cONS-networkEntity-Management	–	c37			
6	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/6	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": coProtocolMachine-entity	–	c37			
7	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/7	dSeriesCounts-virtual Call-DCE-Automatic	–	c38			
8	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/8	dSeriesCounts-virtual Call-DCE-Management	–	c38			
9	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/9	linkage-cLNS-Automatic	–	c39			
10	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/10	linkage-cLNS-Management	–	c39			
11	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/11	linkage- cONS-Automatic	–	c40			
12	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/12	linkage-cONS-Management	–	c40			
13	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/13	nSAP-network Subsystem-Automatic	–	c41			
14	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/14	nSAP-network Subsystem-Management	–	c41			
15	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/15	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": sap2-subsystem	–	c41			
16	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/16	networkConnection-cONS	–	c42			
17	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/17	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": singlePeerConnection-co Protocol Machine	–	c42			
18	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/18	networkEntity-network Subsystem-Automatic	–	c43			
19	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/19	networkEntity-network Subsystem-Management	–	c43			
20	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/20	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsEntity-subsystem	–	c43			
21	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/21	networkSubsystem-system	–	o.14			
22	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/22	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": subsystem-system	–	o.14			
23	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/23	permanentVirtual Circuit-DCE-x25PLE-DCE	–	c44			
24	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/24	permanentVirtual Circuit-DTE-x25PLE-DTE	–	c45			
25	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/25	virtualCall-DCE-x25PLE-DCE-Automatic	–	c46			
26	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/26	virtualCall-DCE-x25PLE-DCE-Management	–	c46			
27	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/27	virtualCall-DTE-x25PLE-DTE	–	c47			
28	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/28	virtualCallIVMO-x25PLE	–	c47			

Table D.7 *(concluded)*

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 MRCS	Addi-tional infor-mation
29	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/29	x25PLE-networkSubsystem-Automatic	–	c48			
30	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/30	x25PLE-networkSubsystem-Management	–	c48			
31	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table G.1/31	x25PLEIVMO-networkSubsystem	–	c49			
32	"CCITT Rec. X.735 (1992) | ISO/IEC 10164-6"	Table D.1/1	logRecord-log	–	c50			

c36: if D.4/4a then o.6 else –
c37: if D.4/6a then o.7 else –
c38: if D.4/17a then o.8 else –
c39: if D.4/4a and D.4/5a then o.9 else –
c40: if D.4/5a and D.4/6a then o.10 else –
c41: if D.4/3a then o.11 else –
c42: if D.4/7a then o.12 else –
c43: if D.4/2a then o.13 else –
c44: if D.4/13a then o.15 else –
c45: if D.4/12a then o.16 else –
c46: if D.4/16a then o.17 else –
c47: if D.4/15a then o.18 else –
c48: if D.4/8a or D.4/9a then o.19 else –
c49: if D.4/10a or D.4/11a then m else –
c50: if D.5/1a then o else –

Table D.8 – MICS support summary

Index	Identification of the document that includes the MOCS proforma	Table numbers of MOCS proforma	Description	Con-straints and values	Status	Support	Table numbers of MICS	Addi-tional infor-mation
1	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table E.1 – E.42	management operations	–	c51			
2	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table E.43	notifications	–	c52			
3	"ITU-T Rec. X.283 | ISO/IEC 10733"	Table E.44	actions	–	c53			

c51: if D.3/1a then m else –

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

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

Annexe E[3)]

Formulaire MICS

(Cette annexe fait partie intégrante de la présente Recommandation | Norme internationale)

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 | International Standard, to provide conformance information in a standard form.

E.2 Instructions for completing the MICS proforma to produce a MICS[4)]

The MICS proforma contained in this annex is comprised of information in tabular form, in accordance with ITU-T Rec. X.724 | ISO/IEC 10165-6. In addition to the general guidance given in ITU-T Rec. X.724 | ISO/IEC 10165-6, the Additional information column shall be used to identify the object classes for which the management operations are supported. The supplier of the implementation shall state which items are supported in 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 ITU-T Rec. X.291 | ISO/IEC 9646-2.

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

E.4 Statement of conformance to the management information

E.4.1 Attributes

The specifier of a manager role implementation that claims to support management operations on the attributes specified in this Recommendation | International Standard shall import a copy of Tables E.1 through E.17 and complete them.

E.4.1.1 The CLNS managed object

See Table E.1.

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3) **Droits de reproduction du formulaire MICS**

Les utilisateurs de la présente Recommandation | Norme internationale sont autorisés à reproduire le formulaire MICS de la présente annexe pour l'utiliser conformément à son objet. Ils sont également autorisés à publier le formulaire une fois celui-ci complété.

4) Les instructions permettant de remplir le formulaire MICS sont indiquées dans la Rec. UIT-T X.724 | ISO/CEI 10165-6.

Table E.1 – cLNS 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	c1		o.1		o.1		–		–		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c1		o.1		–		–		–		–		
3	"ISO/IEC 10589:1992": areaAddresses	{2 13 0 1 7 18}	SET OF OCTET STRING	–		o.1		–		–		–		–		
4	"ISO/IEC 10589:1992": areaReceivePasswords	{2 13 0 1 7 112}	SET OF OCTET STRING	c1		o.1		o.1		o.1		o.1		o.1		
5	"ISO/IEC 10589:1992": areaTransmitPassword	{2 13 0 1 7 111}	OCTET STRING	c1		o.1		o.1		–		–		o.1		
6	assemblingSegmentsDiscarded	{2 13 0 2 7 8}	INTEGER	–		o.1		–		–		–		–		
7	"ISO/IEC 10589:1992": attemptsToExceedMaximumSequenceNumber	{2 13 0 1 7 22}	INTEGER	–		o.1		–		–		–		–		
8	"ISO/IEC 10589:1992": authenticationFailures	{2 13 0 1 7 117}	INTEGER	–		o.1		–		–		–		–		
9	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": clProtocolMachineId	{2 9 3 5 7 2}	GraphicString	c1		o.1		–		–		–		–		
10	"ISO/IEC 10589:1992": completeSNPInterval	{2 13 0 1 7 8}	INTEGER	c1		o.1		o.1		–		–		–		
11	congestionDiscards	{2 13 0 2 7 11}	INTEGER	–		o.1		–		–		–		–		
12	"ISO/IEC 10589:1992": corruptedLSPsDetected	{2 13 0 1 7 19}	INTEGER	–		o.1		–		–		–		–		
13	"ISO/IEC 10589:1992": dRISISHelloTimer	{2 13 0 1 7 16}	INTEGER	c1		o.1		o.1		–		–		–		
14	"ISO/IEC 10589:1992": domainReceivePasswords	{2 13 0 1 7 114}	SET OF OCTET STRING	c1		o.1		o.1		o.1		o.1		o.1		
15	"ISO/IEC 10589:1992": domainTransmitPassword	{2 13 0 1 7 113}	OCTET STRING	c1		o.1		o.1		–		–		o.1		

Table E.1 *(continued)*

				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
16	enableChecksum	{2 13 0 2 7 4}	BOOLEAN	c1		o.1		o.1		–		–		o.1		
17	errorReportsReceived	{2 13 0 2 7 9}	INTEGER	–		o.1		–		–		–		–		
18	"ISO/IEC 10589:1992": iDFieldLengthMismatches	{2 13 0 1 7 25}	INTEGER	–		o.1		–		–		–		–		
19	"ISO/IEC 10589:1992": iSType	{2 13 0 1 7 2}	ENUMERATED	c1		o.1		–		–		–		–		
20	"ISO/IEC 10589:1992": l1State	{2 13 0 1 7 17}	ENUMERATED	–		o.1		–		–		–		–		
21	"ISO/IEC 10589:1992": l2State	{2 13 0 1 7 28}	ENUMERATED	–		o.1		–		–		–		–		
22	"ISO/IEC 10589:1992": ISPL1DatabaseOverloads	{2 13 0 1 7 20}	INTEGER	–		o.1		–		–		–		–		
23	"ISO/IEC 10589:1992": lSPL2DatabaseOverloads	{2 13 0 1 7 32}	INTEGER	–		o.1		–		–		–		–		
24	"ISO/IEC 10589:1992": manualAddressesDroppedFromArea	{2 13 0 1 7 21}	INTEGER	–		o.1		–		–		–		–		
25	"ISO/IEC 10589:1992": manualareaAddresses	{2 13 0 1 7 10}	SET OF OCTET STRING	–		o.1		–		–		–		–		
26	"ISO/IEC 10589:1992": maximumAreaAddresses	{2 13 0 1 7 4}	INTEGER "ISO/IEC 10589:1992": constraintViolation	c1		o.1		o.1		–		–		–		
27	"ISO/IEC 10589:1992": maximumAreaAddressesMismatches	{2 13 0 1 7 118}	INTEGER	–		o.1		–		–		–		–		
28	"ISO/IEC 10589:1992": maximumLSPGenerationInterval	{2 13 0 1 7 6}	INTEGER	c1		o.1		o.1		–		–		–		
29	maximumLifetime	{2 13 0 2 7 102}	INTEGER	c1		o.1		o.1		–		–		–		
30	"ISO/IEC 10589:1992": maximumPathSplits	{2 13 0 1 7 3}	INTEGER "ISO/IEC 10589:1992": constraintViolation	c1		o.1		o.1		–		–		–		

Table E.1 *(continued)*

				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
31	"ISO/IEC 10589:1992": maximumVirtualAdjacencies	{2 13 0 1 7 27}	INTEGER "ISO/IEC 10589:1992": constraintViolation	c1		o.1		o.1		–		–		o.1		
32	"ISO/IEC 10589:1992": minimumBroadcastLSPTransmissionInterval	{2 13 0 1 7 7}	INTEGER	c1		o.1		o.1		–		–		–		
33	"ISO/IEC 10589:1992": minimumLSPGenerationInterval	{2 13 0 1 7 11}	INTEGER	c1		o.1		o.1		–		–		–		
34	"ISO/IEC 10589:1992": minimumLSPTransmissionInterval	{2 13 0 1 7 5}	INTEGER	c1		o.1		o.1		–		–		–		
35	CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c1		o.1		–		–		–		–		
36	CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c1		o.1		–		–		–		–		
37	CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	–		o.1		–		–		–		–		
38	CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	–		o.1		–		–		–		–		
39	CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	–		o.1		–		–		–		–		
40	operationalSystemType	{2 13 0 2 7 109}	ENUMERATED	c1		o.1		–		–		–		–		
41	"ISO/IEC 10589:1992": originatingL1LSPBufferSize	{2 13 0 1 7 9}	INTEGER "ISO/IEC 10589:1992": constraintViolation	c1		o.1		o.1		–		–		–		

Table E.1 *(concluded)*

				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
42	"ISO/IEC 10589:1992": originatingL2LSPBufferSize	{2 13 0 1 7 26}	INTEGER "ISO/IEC 10589:1992": constraintViolation	c1		o.1		o.1		–		–		o.1		
43	"ISO/IEC 10589:1992": ownLSPPurges	{2 13 0 1 7 24}	INTEGER	–		o.1		–		–		–		–		
44	pDUDiscards	{2 13 0 2 7 10}	INTEGER	–		o.1		–		–		–		–		
45	CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c1		o.1		–		–		–		–		
46	"ISO/IEC 10589:1992": partialSNPInterval	{2 13 0 1 7 14}	INTEGER	c1		o.1		o.1		–		–		–		
47	"ISO/IEC 10589:1992": partitionAreaAddresses	{2 13 0 1 7 29}	SET OF OCTET STRING	–		o.1		–		–		–		–		
48	"ISO/IEC 10589:1992": partitionDesignatedL2IntermediateSystem	{2 13 0 1 7 30}	OCTET STRING	–		o.1		–		–		–		–		
49	"ISO/IEC 10589:1992": partitionVirtualLinkChanges	{2 13 0 1 7 31}	INTEGER	–		o.1		–		–		–		–		
50	"ISO/IEC 10589:1992": pollESHelloRate	{2 13 0 1 7 13}	INTEGER	c1		o.1		o.1		–		–		–		
51	segmentsDiscarded	{2 13 0 2 7 7}	INTEGER	–		o.1		–		–		–		–		
52	segmentsReceived	{2 13 0 2 7 6}	INTEGER	–		o.1		–		–		–		–		
53	segmentsSent	{2 13 0 2 7 118}	INTEGER	–		o.1		–		–		–		–		
54	"ISO/IEC 10589:1992": sequenceNumberSkips	{2 13 0 1 7 23}	INTEGER	–		o.1		–		–		–		–		
55	supportedProtocols	{2 13 0 2 7 110}	SET OF SEQUENCE	–		o.1		–		–		–		–		
56	"ISO/IEC 10589:1992": systemId	{2 13 0 1 7 119}	OCTET STRING	–		o.1		–		–		–		–		
57	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": totalRemoteSAPs	{2 9 3 5 7 13}	INTEGER	–		o.1		–		–		–		–		
58	"ISO/IEC 10589:1992": version	{2 13 0 1 7 1}	GraphicString	–		o.1		–		–		–		–		
59	"ISO/IEC 10589:1992": waitingTime	{2 13 0 1 7 15}	INTEGER	c1		o.1		o.1		–		–		–		
c1: if E.28/1a then o.1 else –																

E.4.1.2 The CONS managed object

See Table E.2.

Table E.2 – cONS 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.1		o.1		–		–		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c2		o.1		–		–		–		–		
3	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": clProtocolMachineId	{2 9 3 5 7 2}	GraphicString	c2		o.1		–		–		–		–		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c2		o.1		–		–		–		–		
5	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c2		o.1		–		–		–		–		
6	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	–		o.1		–		–		–		–		
7	operationalSystemType	{2 13 0 2 7 109}	ENUMERATED	c2		o.1		–		–		–		–		
8	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c2		o.1		–		–		–		–		
c2: if E.29/1a then o.1 else –																

E.4.1.3 The Recommendation D-Series counts managed object

See Table E.3.

Table E.3 – dSeriesCounts 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		o.1		–		–		–		–		
2	dSeriesId	{2 13 0 2 7 140}	GraphicString	c3		o.1		–		–		–		–		
3	dSeriesResetRequestIndicationPackets	{2 13 0 2 7 141}	INTEGER	–		o.1		–		–		–		–		
4	dSeriesSegmentsReceived	{2 13 0 2 7 143}	INTEGER	–		o.1		–		–		–		–		
5	dSeriesSegmentsSent	{2 13 0 2 7 142}	INTEGER	–		o.1		–		–		–		–		
6	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c3		o.1		–		–		–		–		
7	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c3		o.1		–		–		–		–		
8	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c3		o.1		–		–		–		–		
c3: if E.30/1a then o.1 else –																

E.4.1.4 The linkage managed object

See Table E.4.

Table E.4 – linkage 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	activeESConfigTimer	{2 13 0 2 7 22}	SEQUENCE	–		o.1		–		–		–		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": administrativeState	{2 9 3 2 7 31}	ENUMERATED	c4		o.1		o.1		–		–		–		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c4		o.1		–		–		–		–		
4	"ISO/IEC 10589:1992": authenticationFailures	{2 13 0 1 7 117}	INTEGER	–		o.1		–		–		–		–		
5	"ISO/IEC 10589:1992": callEstablishmentDefaultMetricIncrement	{2 13 0 1 7 52}	INTEGER	c4		o.1		o.1		–		–		o.1		
6	"ISO/IEC 10589:1992": callEstablishmentDelayMetricIncrement	{2 13 0 1 7 53}	INTEGER	c4		o.1		o.1		–		–		o.1		
7	"ISO/IEC 10589:1992": callEstablishmentErrorMetricIncrement	{2 13 0 1 7 55}	INTEGER	c4		o.1		o.1		–		–		o.1		
8	"ISO/IEC 10589:1992": callEstablishmentExpenseMetricIncrement	{2 13 0 1 7 54}	INTEGER	c4		o.1		o.1		–		–		o.1		
9	callsFailed	{2 13 0 2 7 30}	INTEGER	–		o.1		–		–		–		–		
10	callsPlaced	{2 13 0 2 7 29}	INTEGER	–		o.1		–		–		–		–		
11	"ISO/IEC 10589:1992": changesInAdjacencyState	{2 13 0 1 7 40}	INTEGER	–		o.1		–		–		–		–		
12	"ISO/IEC 10589:1992": circuitReceivePasswords	{2 13 0 1 7 116}	SET OF OCTET STRING	c4		o.1		o.1		o.1		o.1		o.1		
13	"ISO/IEC 10589:1992": circuitTransmitPassword	{2 13 0 1 7 115}	OCTET STRING	c4		o.1		o.1		–		–		o.1		

Table E.4 *(continued)*

				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
14	defaultESConfigTimer	{2 13 0 2 7 21}	SEQUENCE	c4		o.1		o.1		–		–		o.1		
15	eSReachabilityChanges	{2 13 0 2 7 27}	INTEGER	–		o.1		–		–		–		–		
16	enableChecksum	{2 13 0 2 7 4}	BOOLEAN	c4		o.1		o.1		–		–		o.1		
17	“ISO/IEC 10589:1992”: externalDomain	{2 13 0 1 7 46}	BOOLEAN	c4		o.1		o.1		–		–		o.1		
18	holdingTimerMultiplier	{2 13 0 2 7 20}	INTEGER	c4		o.1		o.1		–		–		o.1		
19	“ISO/IEC 10589:1992”: iDFieldLengthMismatches	{2 13 0 1 7 25}	INTEGER	–		o.1		–		–		–		–		
20	iSConfigurationTimer	{2 13 0 2 7 24}	SEQUENCE	c4		o.1		o.1		–		–		o.1		
21	“ISO/IEC 10589:1992”: iSISControlPDUsReceived	{2 13 0 1 7 44}	INTEGER	–		o.1		–		–		–		–		
22	“ISO/IEC 10589:1992”: iSISControlPDUsSent	{2 13 0 1 7 43}	INTEGER	–		o.1		–		–		–		–		
23	“ISO/IEC 10589:1992”: iSISHelloTimer	{2 13 0 1 7 45}	INTEGER	c4		o.1		o.1		–		–		o.1		
24	iSO9542OperationalSubsets	{2 13 0 2 7 115}	BIT STRING	c4		o.1		o.1		–		–		–		
25	iSReachabilityChanges	{2 13 0 2 7 23}	INTEGER	–		o.1		–		–		–		–		
26	idleTimer	{2 13 0 2 7 31}	SEQUENCE	c4		o.1		o.1		–		–		o.1		
27	initialMinimumTimer	{2 13 0 2 7 33}	SEQUENCE	c4		o.1		o.1		–		–		o.1		
28	“ISO/IEC 10589:1992”: initializationFailures	{2 13 0 1 7 41}	INTEGER	–		o.1		–		–		–		–		
29	invalid9542PDUs	{2 13 0 2 7 101}	INTEGER	–		o.1		–		–		–		–		
30	“ISO/IEC 10589:1992”: l1CircuitID	{2 13 0 1 7 48}	OCTET STRING	–		o.1		–		–		–		–		
31	“ISO/IEC 10589:1992”: l1DefaultMetric	{2 13 0 1 7 35}	INTEGER	c4		o.1		o.1		–		–		o.1		
32	“ISO/IEC 10589:1992”: l1DelayMetric	{2 13 0 1 7 36}	INTEGER	c4		o.1		o.1		–		–		o.1		
33	“ISO/IEC 10589:1992”: l1DesignatedIntermediateSystem	{2 13 0 1 7 49}	OCTET STRING	–		o.1		–		–		–		–		

Table E.4 *(continued)*

				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	"ISO/IEC 10589:1992": l1ErrorMetric	{2 13 0 1 7 38}	INTEGER	c4		o.1		o.1		–		–		o.1		
35	"ISO/IEC 10589:1992": l1ExpenseMetric	{2 13 0 1 7 37}	INTEGER	c4		o.1		o.1		–		–		o.1		
36	"ISO/IEC 10589:1992": l1IntermediateSystemPriority	{2 13 0 1 7 47}	INTEGER	c4		o.1		o.1		–		–		o.1		
37	"ISO/IEC 10589:1992": l2CircuitID	{2 13 0 1 7 74}	OCTET STRING	–		o.1		–		–		–		–		
38	"ISO/IEC 10589:1992": l2DefaultMetric	{2 13 0 1 7 68}	INTEGER	c4		o.1		o.1		–		–		o.1		
39	"ISO/IEC 10589:1992": l2DelayMetric	{2 13 0 1 7 69}	INTEGER	c4		o.1		o.1		–		–		o.1		
40	"ISO/IEC 10589:1992": l2DesignatedIntermediateSystem	{2 13 0 1 7 75}	OCTET STRING	–		o.1		–		–		–		–		
41	"ISO/IEC 10589:1992": l2ErrorMetric	{2 13 0 1 7 71}	INTEGER	c4		o.1		o.1		–		–		o.1		
42	"ISO/IEC 10589:1992": l2ExpenseMetric	{2 13 0 1 7 70}	INTEGER	c4		o.1		o.1		–		–		o.1		
43	"ISO/IEC 10589:1992": l2IntermediateSystemPriority	{2 13 0 1 7 73}	INTEGER	c4		o.1		o.1		–		–		o.1		
44	"ISO/IEC 10589:1992": lanL1DesignatedIntermediateSystemChanges	{2 13 0 1 7 50}	INTEGER	–		o.1		–		–		–		–		
45	"ISO/IEC 10589:1992": lanL2DesignatedIntermediateSystemChanges	{2 13 0 1 7 76}	INTEGER	–		o.1		–		–		–		–		
46	linkageId	{2 13 0 2 7 17}	GraphicString	c4		o.1		–		–		–		–		
47	manualISSNPAAddress	{2 13 0 2 7 28}	SET OF SEQUENCE	c4		o.1		o.1		o.1		o.1		o.1		
48	"ISO/IEC 10589:1992": manualL2OnlyMode	{2 13 0 1 7 72}	BOOLEAN "ISO/IEC 10589:1992": constraintViolation	c4		o.1		o.1		–		–		o.1		

Table E.4 *(concluded)*

				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
49	"ISO/IEC 10589:1992": maximumAreaAddressesMismatches	{2 13 0 1 7 118}	INTEGER	–		o.1		–		–		–		–		
50	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c4		o.1		–		–		–		–		
51	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c4		o.1		–		–		–		–		
52	operationalProtocols	{2 13 0 2 7 111}	SET OF SEQUENCE	c4		o.1		–		–		–		–		
53	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	–		o.1		–		–		–		–		
54	"ISO/IEC 10589:1992": outgoingCallIVMO	{2 13 0 1 7 120}	OCTET STRING	c4		o.1		o.1		–		–		o.1		
55	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c4		o.1		–		–		–		–		
56	"ISO/IEC 10589:1992": ptPtCircuitID	{2 13 0 1 7 51}	OCTET STRING	–		o.1		–		–		–		–		
57	redirectHoldingTime	{2 13 0 2 7 26}	INTEGER	c4		o.1		o.1		–		–		o.1		
58	"ISO/IEC 10589:1992": rejectedAdjacencies	{2 13 0 1 7 42}	INTEGER	–		o.1		–		–		–		–		
59	reserveTimer	{2 13 0 2 7 32}	SEQUENCE	c4		o.1		o.1		–		–		o.1		
60	sN-SAP	{2 13 0 2 7 18}	ObjectInstance	–		o.1		–		–		–		–		
61	sN-ServiceProvider	{2 13 0 2 7 19}	ObjectInstance	c4		o.1		–		–		–		–		
62	suggestedESConfigurationTimer	{2 13 0 2 7 25}	SEQUENCE	c4		o.1		o.1		–		–		o.1		
63	"ISO/IEC 10589:1992": type	{2 13 0 1 7 33}	ENUMERATED	c4		o.1		–		–		–		–		
64	neighbourSNPAAddress	{2 13 0 1 7 79}	SEQUENCE	c4		o.1		o.1		–		–		o.1		
c4: if E.31/1a then o.1 else –																

E.4.1.5 The NSAP managed object

See Table E.5.

Table E.5 – nSAP 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	c5		o.1		–		–		–		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c5		o.1		–		–		–		–		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c5		o.1		–		–		–		–		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c5		o.1		–		–		–		–		
5	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": providerEntityNames	{2 9 3 5 7 7}	SET OF ObjectInstance	–		o.1		–		–		–		–		
6	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": sap2Address	{2 9 3 5 7 9}	SET OF OCTET STRING	c5		o.1		–		–		–		–		
7	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": sapId	{2 9 3 5 7 10}	GraphicString	c5		o.1		–		–		–		–		
8	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": userEntityNames	{2 9 3 5 7 15}	SET OF ObjectInstance	–		o.1		–		–		–		–		
c5: if E.32/1a then o.1 else –																

E.4.1.6 The network connection managed object

See Table E.6.

Table E.6 – networkConnection 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.1		–		–		–		–		
2	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": connectionId	{2 9 3 5 7 1}	GraphicString	–		o.1		–		–		–		–		
3	localNSAPMO	{2 13 0 2 7 106}	ObjectInstance	–		o.1		–		–		–		–		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	–		o.1		–		–		–		–		
5	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	–		o.1		–		–		–		–		
6	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	–		o.1		–		–		–		–		
7	remoteNSAPAddress	{2 13 0 2 7 107}	OCTET STRING	–		o.1		–		–		–		–		
8	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": supportedConnectionNames	{2 9 3 5 7 12}	SET OF ObjectInstance	–		o.1		–		–		–		–		
9	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": underlyingConnectionNames	{2 9 3 5 7 14}	SET OF ObjectInstance	–		o.1		–		–		–		–		

E.4.1.7 The network entity managed object

See Table E.7.

Table E.7 – networkEntity 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	c6		o.1		–		–		–		–		
2	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsEntityId	{2 9 3 5 7 0}	GraphicString	c6		o.1		–		–		–		–		
3	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": localSapNames	{2 9 3 5 7 6}	SET OF ObjectInstance	–		o.1		–		–		–		–		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c6		o.1		–		–		–		–		
5	networkEntityTitles	{2 13 0 2 7 3}	SET OF OCTET STRING	c6		o.1		o.1		o.1		o.1		–		
6	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c6		o.1		–		–		–		–		
7	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	–		o.1		–		–		–		–		
8	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c6		o.1		–		–		–		–		
9	systemTypes	{2 13 0 2 7 108}	SET OF ENUMERATED	–		o.1		–		–		–		–		
c6: if E.34/1a then o.1 else –																

E.4.1.8 The network subsystem managed object

See Table E.8.

Table E.8 – networkSubsystem 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.1		–		–		–		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	–		o.1		–		–		–		–		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	–		o.1		–		–		–		–		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	–		o.1		–		–		–		–		
5	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": subsystemId	{2 9 3 5 7 11}	GraphicString	–		o.1		–		–		–		–		

E.4.1.9 The permanent virtual circuit-DCE managed object

See Table E.9.

Table E.9 – permanentVirtualCircuit-DCE 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.1		o.1		–		–		–		–		
2	chargingDirection	{2 13 0 2 7 131}	BOOLEAN	–		o.1		–		–		–		–		
3	dataPacketsReceived	{2 13 0 2 7 51}	INTEGER	–		o.1		–		–		–		–		
4	dataPacketsSent	{2 13 0 2 7 50}	INTEGER	–		o.1		–		–		–		–		
5	interruptPacketsReceived	{2 13 0 2 7 68}	INTEGER	–		o.1		–		–		–		–		
6	interruptPacketsSent	{2 13 0 2 7 67}	INTEGER	–		o.1		–		–		–		–		
7	interruptTimerExpiries	{2 13 0 2 7 69}	INTEGER	–		o.1		–		–		–		–		
8	logicalChannel	{2 13 0 2 7 89}	INTEGER	o.1		o.1		–		–		–		–		
9	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	o.1		o.1		–		–		–		–		
10	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	o.1		o.1		–		–		–		–		
11	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	–		o.1		–		–		–		–		
12	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	–		o.1		–		–		–		–		
13	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	–		o.1		–		–		–		–		

Table E.9 *(concluded)*

				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
14	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	o.1		o.1		–		–		–		–		
15	packetSizes	{2 13 0 2 7 121}	SEQUENCE	o.1		o.1		–		–		–		–		
16	providerInitiatedDisconnects	{2 13 0 2 7 54}	INTEGER	–		o.1		–		–		–		–		
17	providerInitiatedResets	{2 13 0 2 7 59}	INTEGER	–		o.1		–		–		–		–		
18	remoteDTEAddress	{2 13 0 2 7 93}	SEQUENCE	–		o.1		–		–		–		–		
19	remoteLogicalChannel	{2 13 0 2 7 162}	INTEGER	–		o.1		–		–		–		–		
20	remotelyInitiatedResets	{2 13 0 2 7 57}	INTEGER	–		o.1		–		–		–		–		
21	remotelyInitiatedRestarts	{2 13 0 2 7 61}	INTEGER	–		o.1		–		–		–		–		
22	resetTimeouts	{2 13 0 2 7 60}	INTEGER	–		o.1		–		–		–		–		
23	throughputClasses	{2 13 0 2 7 96}	SEQUENCE	o.1		o.1		–		–		–		–		
24	virtualCircuitId	{2 13 0 2 7 116}	GraphicString	o.1		o.1		–		–		–		–		
25	windowSizes	{2 13 0 2 7 124}	SEQUENCE	o.1		o.1		–		–		–		–		
26	x25SegmentsReceived	{2 13 0 2 7 171}	INTEGER	–		o.1		–		–		–		–		
27	x25SegmentsSent	{2 13 0 2 7 170}	INTEGER	–		o.1		–		–		–		–		

E.4.1.10 The permanent virtual circuit-DTE managed object

See Table E.10.

Table E.10 – permanentVirtualCircuit-DTE 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.1		o.1		–		–		–		–		
2	dataPacketsReceived	{2 13 0 2 7 51}	INTEGER	–		o.1		–		–		–		–		
3	dataPacketsSent	{2 13 0 2 7 50}	INTEGER	–		o.1		–		–		–		–		
4	dataRetransmissionTimerExpiries	{2 13 0 2 7 58}	INTEGER	–		o.1		–		–		–		–		
5	interruptPacketsReceived	{2 13 0 2 7 68}	INTEGER	–		o.1		–		–		–		–		
6	interruptPacketsSent	{2 13 0 2 7 67}	INTEGER	–		o.1		–		–		–		–		
7	interruptTimerExpiries	{2 13 0 2 7 69}	INTEGER	–		o.1		–		–		–		–		
8	logicalChannel	{2 13 0 2 7 89}	INTEGER	o.1		o.1		–		–		–		–		
9	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	o.1		o.1		–		–		–		–		
10	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	o.1		o.1		–		–		–		–		
11	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	–		o.1		–		–		–		–		
12	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	–		o.1		–		–		–		–		
13	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	o.1		o.1		–		–		–		–		
14	packetSizes	{2 13 0 2 7 121}	SEQUENCE	o.1		o.1		–		–		–		–		
15	providerInitiatedResets	{2 13 0 2 7 59}	INTEGER	–		o.1		–		–		–		–		
16	remotelyInitiatedResets	{2 13 0 2 7 57}	INTEGER	–		o.1		–		–		–		–		
17	resetTimeouts	{2 13 0 2 7 60}	INTEGER	–		o.1		–		–		–		–		
18	throughputClasses	{2 13 0 2 7 96}	SEQUENCE	o.1		o.1		–		–		–		–		
19	virtualCircuitId	{2 13 0 2 7 116}	GraphicString	o.1		o.1		–		–		–		–		
20	windowSizes	{2 13 0 2 7 124}	SEQUENCE	o.1		o.1		–		–		–		–		

E.4.1.11 The virtual call-DCE managed object

See Table E.11.

Table E.11 – virtualCall-DCE 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	c7		o.1		–		–		–		–		
2	bilateralCUGSelection	{2 13 0 2 7 126}	BOOLEAN	–		o.1		–		–		–		–		
3	cUGSelection	{2 13 0 2 7 135}	BOOLEAN	–		o.1		–		–		–		–		
4	cUGWithOutgoingAccessSelection	{2 13 0 2 7 138}	BOOLEAN	–		o.1		–		–		–		–		
5	callRedirectionDeflectionNotification	{2 13 0 2 7 130}	BOOLEAN	–		o.1		–		–		–		–		
6	calledLineAddressModifiedNotification	{2 13 0 2 7 128}	BOOLEAN	–		o.1		–		–		–		–		
7	chargingDirection	{2 13 0 2 7 131}	BOOLEAN	–		o.1		–		–		–		–		
8	dataPacketsReceived	{2 13 0 2 7 51}	INTEGER	–		o.1		–		–		–		–		
9	dataPacketsSent	{2 13 0 2 7 50}	INTEGER	–		o.1		–		–		–		–		
10	direction	{2 13 0 2 7 92}	ENUMERATED	–		o.1		–		–		–		–		
11	fastSelect	{2 13 0 2 7 76}	ENUMERATED	–		o.1		–		–		–		–		
12	interruptPacketsReceived	{2 13 0 2 7 68}	INTEGER	–		o.1		–		–		–		–		
13	interruptPacketsSent	{2 13 0 2 7 67}	INTEGER	–		o.1		–		–		–		–		
14	interruptTimerExpiries	{2 13 0 2 7 69}	INTEGER	–		o.1		–		–		–		–		
15	logicalChannel	{2 13 0 2 7 89}	INTEGER	–		o.1		–		–		–		–		
16	nUISelection	{2 13 0 2 7 155}	BOOLEAN	–		o.1		–		–		–		–		
17	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c7		o.1		–		–		–		–		
18	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c7		o.1		–		–		–		–		

Table E.11 *(concluded)*

				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
19	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	–		o.1		–		–		–		–		
20	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	–		o.1		–		–		–		–		
21	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c7		o.1		–		–		–		–		
22	packetSizes	{2 13 0 2 7 121}	SEQUENCE	–		o.1		–		–		–		–		
23	providerInitiatedDisconnects	{2 13 0 2 7 54}	INTEGER	–		o.1		–		–		–		–		
24	providerInitiatedResets	{2 13 0 2 7 59}	INTEGER	–		o.1		–		–		–		–		
25	rOASelection	{2 13 0 2 7 166}	BOOLEAN	–		o.1		–		–		–		–		
26	remoteDTEAddress	{2 13 0 2 7 93}	SEQUENCE	–		o.1		–		–		–		–		
27	remotelyInitiatedResets	{2 13 0 2 7 57}	INTEGER	–		o.1		–		–		–		–		
28	remotelyInitiatedRestarts	{2 13 0 2 7 61}	INTEGER	–		o.1		–		–		–		–		
29	resetTimeouts	{2 13 0 2 7 60}	INTEGER	–		o.1		–		–		–		–		
30	reverseCharging	{2 13 0 2 7 75}	BOOLEAN	–		o.1		–		–		–		–		
31	throughputClasses	{2 13 0 2 7 96}	SEQUENCE	–		o.1		–		–		–		–		
32	transitDelaySelectionAndIndication	{2 13 0 2 7 169}	BOOLEAN	–		o.1		–		–		–		–		
33	virtualCircuitId	{2 13 0 2 7 116}	GraphicString	c7		o.1		–		–		–		–		
34	windowSizes	{2 13 0 2 7 124}	SEQUENCE	–		o.1		–		–		–		–		
35	x25SegmentsReceived	{2 13 0 2 7 171}	INTEGER	–		o.1		–		–		–		–		
36	x25SegmentsSent	{2 13 0 2 7 170}	INTEGER	–		o.1		–		–		–		–		
c7: if E.37/1a then o.1 else –																

E.4.1.12 The virtual call-DTE managed object

See Table E.12.

Table E.12 – virtualCall-DTE 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.1		–		–		–		–		
2	calledAddressExtension	{2 13 0 2 7 100}	OCTET STRING	–		o.1		–		–		–		–		
3	callingAddressExtension	{2 13 0 2 7 99}	OCTET STRING	–		o.1		–		–		–		–		
4	dataPacketsReceived	{2 13 0 2 7 51}	INTEGER	–		o.1		–		–		–		–		
5	dataPacketsSent	{2 13 0 2 7 50}	INTEGER	–		o.1		–		–		–		–		
6	dataRetransmissionTimerExpiries	{2 13 0 2 7 58}	INTEGER	–		o.1		–		–		–		–		
7	direction	{2 13 0 2 7 92}	ENUMERATED	–		o.1		–		–		–		–		
8	fastSelect	{2 13 0 2 7 76}	ENUMERATED	–		o.1		–		–		–		–		
9	interruptPacketsReceived	{2 13 0 2 7 68}	INTEGER	–		o.1		–		–		–		–		
10	interruptPacketsSent	{2 13 0 2 7 67}	INTEGER	–		o.1		–		–		–		–		
11	interruptTimerExpiries	{2 13 0 2 7 69}	INTEGER	–		o.1		–		–		–		–		
12	logicalChannel	{2 13 0 2 7 89}	INTEGER	–		o.1		–		–		–		–		
13	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	–		o.1		–		–		–		–		
14	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	–		o.1		–		–		–		–		
15	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	–		o.1		–		–		–		–		
16	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	–		o.1		–		–		–		–		

Table E.12 *(concluded)*

				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
17	originallyCalledAddress	{2 13 0 2 7 98}	SEQUENCE	–		o.1		–		–		–		–		
18	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	–		o.1		–		–		–		–		
19	packetSizes	{2 13 0 2 7 121}	SEQUENCE	–		o.1		–		–		–		–		
20	providerInitiatedResets	{2 13 0 2 7 59}	INTEGER	–		o.1		–		–		–		–		
21	redirectReason	{2 13 0 2 7 97}	INTEGER	–		o.1		–		–		–		–		
22	remoteDTEAddress	{2 13 0 2 7 93}	SEQUENCE	–		o.1		–		–		–		–		
23	remotelyInitiatedResets	{2 13 0 2 7 57}	INTEGER	–		o.1		–		–		–		–		
24	resetTimeouts	{2 13 0 2 7 60}	INTEGER	–		o.1		–		–		–		–		
25	reverseCharging	{2 13 0 2 7 75}	BOOLEAN	–		o.1		–		–		–		–		
26	throughputClasses	{2 13 0 2 7 96}	SEQUENCE	–		o.1		–		–		–		–		
27	virtualCircuitId	{2 13 0 2 7 116}	GraphicString	–		o.1		–		–		–		–		
28	windowSizes	{2 13 0 2 7 124}	SEQUENCE	–		o.1		–		–		–		–		

E.4.1.13 The virtual call initial values managed object

See Table E.13.

Table E.13 – virtualCallIVMO 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.1		o.1		–		–		–		–		
2	fastSelect	{2 13 0 2 7 76}	ENUMERATED	o.1		o.1		o.1		–		–		–		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	o.1		o.1		–		–		–		–		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	o.1		o.1		–		–		–		–		
5	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	o.1		o.1		–		–		–		–		
6	packetSizes	{2 13 0 2 7 121}	SEQUENCE	o.1		o.1		o.1		–		–		–		
7	reverseCharging	{2 13 0 2 7 75}	BOOLEAN	o.1		o.1		o.1		–		–		–		
8	throughputClasses	{2 13 0 2 7 96}	SEQUENCE	o.1		o.1		o.1		–		–		–		
9	virtualCallIVMOId	{2 13 0 2 7 117}	GraphicString	o.1		o.1		–		–		–		–		
10	windowSizes	{2 13 0 2 7 124}	SEQUENCE	o.1		o.1		o.1		–		–		–		

E.4.1.14 The X25 PLE-DCE managed object

See Table E.14.

Table E.14 – x25PLE-DCE 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	c8		o.1		o.1		–		–		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c8		o.1		–		–		–		–		
3	bilateralCUG	{2 13 0 2 7 125}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
4	bilateralCUGWithOutgoingAccess	{2 13 0 2 7 127}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
5	cUG	{2 13 0 2 7 134}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
6	cUGWithIncomingAccess	{2 13 0 2 7 136}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
7	cUGWithOutgoingAccess	{2 13 0 2 7 137}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
8	callAttempts	{2 13 0 2 7 52}	INTEGER	–		o.1		–		–		–		–		
9	callDeflectionSubscription	{2 13 0 2 7 114}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
10	callRedirection	{2 13 0 2 7 129}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
11	callsConnected	{2 13 0 2 7 53}	INTEGER	–		o.1		–		–		–		–		
12	chargingInformation	{2 13 0 2 7 132}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
13	clearIndication	{2 13 0 2 7 133}	INTEGER	c8		o.1		o.1		–		–		–		
14	dBitModification	{2 13 0 2 7 139}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
15	dataPacketsReceived	{2 13 0 2 7 51}	INTEGER	–		o.1		–		–		–		–		
16	dataPacketsSent	{2 13 0 2 7 50}	INTEGER	–		o.1		–		–		–		–		
17	defaultPacketSizes	{2 13 0 2 7 103}	SEQUENCE	c8		o.1		o.1		–		–		o.1		
18	defaultThroughputClasses	{2 13 0 2 7 112}	SEQUENCE	c8		o.1		o.1		–		–		o.1		
19	defaultThroughputClassesAssignment	{2 13 0 2 7 144}	SEQUENCE	c8		o.1		o.1		–		–		o.1		
20	defaultWindowSizes	{2 13 0 2 7 104}	SEQUENCE	c8		o.1		o.1		–		–		o.1		
21	extendedPacketSequenceNumbering	{2 13 0 2 7 49}	INTEGER	c8		o.1		o.1		–		–		o.1		
22	fastSelectAcceptance	{2 13 0 2 7 145}	BOOLEAN	c8		o.1		o.1		–		–		o.1		

Table E.14 *(continued)*

				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
23	flowControlParameterNegotiation	{2 13 0 2 7 119}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
24	huntGroup	{2 13 0 2 7 146}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
25	incomingCall	{2 13 0 2 7 147}	INTEGER	c8		o.1		o.1		–		–		–		
26	incomingCallBarredWithinCUG	{2 13 0 2 7 149}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
27	incomingCallsBarred	{2 13 0 2 7 148}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
28	interruptPacketsReceived	{2 13 0 2 7 68}	INTEGER	–		o.1		–		–		–		–		
29	interruptPacketsSent	{2 13 0 2 7 67}	INTEGER	–		o.1		–		–		–		–		
30	interruptTimerExpiries	{2 13 0 2 7 69}	INTEGER	–		o.1		–		–		–		–		
31	localChargingPrevention	{2 13 0 2 7 150}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
32	localDTEAddress	{2 13 0 2 7 39}	SEQUENCE	c8		o.1		o.1		–		–		–		
33	logicalChannelAssignments	{2 13 0 2 7 48}	SEQUENCE	c8		o.1		o.1		–		–		–		
34	nUIOverride	{2 13 0 2 7 154}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
35	nUISubscription	{2 13 0 2 7 153}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
36	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c8		o.1		–		–		–		–		
37	nonStandardDefaultPacketSizes	{2 13 0 2 7 151}	SEQUENCE	c8		o.1		o.1		–		–		o.1		
38	nonStandardDefaultWindowSizes	{2 13 0 2 7 152}	SEQUENCE	c8		o.1		o.1		–		–		o.1		
39	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c8		o.1		–		–		–		–		
40	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	–		o.1		–		–		–		–		
41	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	–		o.1		–		–		–		–		
42	oneWayLogicalChannelIncoming	{2 13 0 2 7 156}	BOOLEAN	c8		o.1		o.1		–		–		o.1		

Table E.14 *(concluded)*

				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
43	oneWayLogicalChannelOutgoing	{2 13 0 2 7 157}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
44	onlineFacilityRegistration	{2 13 0 2 7 158}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
45	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	–		o.1		–		–		–		–		
46	outgoingCallBarredWithinCUG	{2 13 0 2 7 160}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
47	outgoingCallsBarred	{2 13 0 2 7 159}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
48	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c8		o.1		–		–		–		–		
49	packetRetransmission	{2 13 0 2 7 161}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
50	protocolVersionSupported	{2 13 0 2 7 38}	ENUMERATED	–		o.1		–		–		–		–		
51	providerInitiatedDisconnects	{2 13 0 2 7 54}	INTEGER	–		o.1		–		–		–		–		
52	providerInitiatedResets	{2 13 0 2 7 59}	INTEGER	–		o.1		–		–		–		–		
53	rOASubscription	{2 13 0 2 7 167}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
54	remotelyInitiatedResets	{2 13 0 2 7 57}	INTEGER	–		o.1		–		–		–		–		
55	remotelyInitiatedRestarts	{2 13 0 2 7 61}	INTEGER	–		o.1		–		–		–		–		
56	resetIndication	{2 13 0 2 7 163}	INTEGER	c8		o.1		o.1		–		–		–		
57	resetTimeouts	{2 13 0 2 7 60}	INTEGER	–		o.1		–		–		–		–		
58	restartIndication	{2 13 0 2 7 164}	INTEGER	c8		o.1		o.1		–		–		–		
59	reverseChargingAcceptance	{2 13 0 2 7 165}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
60	sN-SAP	{2 13 0 2 7 18}	ObjectInstance	–		o.1		–		–		–		–		
61	sN-ServiceProvider	{2 13 0 2 7 19}	ObjectInstance	c8		o.1		o.1		–		–		o.1		
62	throughputClassNegotiation	{2 13 0 2 7 168}	BOOLEAN	c8		o.1		o.1		–		–		o.1		
63	x25PLEId	{2 13 0 2 7 36}	GraphicString	c8		o.1		–		–		–		–		
64	x25PLEMode	{2 13 0 2 7 120}	ENUMERATED	c8		o.1		o.1		–		–		–		
65	x25SegmentsReceived	{2 13 0 2 7 171}	INTEGER	–		o.1		–		–		–		–		
66	x25SegmentsSent	{2 13 0 2 7 170}	INTEGER	–		o.1		–		–		–		–		
c8: if E.39/1a then o.1 else –																

E.4.1.15 The X25 PLE-DTE managed object

See Table E.15.

Table E.15 – x25PLE-DTE 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	c9		o.1		o.1		–		–		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c9		o.1		–		–		–		–		
3	callAttempts	{2 13 0 2 7 52}	INTEGER	–		o.1		–		–		–		–		
4	callDeflectionSubscription	{2 13 0 2 7 114}	BOOLEAN	c9		o.1		o.1		–		–		o.1		
5	callEstablishmentRetryCountsExceeded	{2 13 0 2 7 65}	INTEGER	–		o.1		–		–		–		–		
6	callRequestResponseTimer	{2 13 0 2 7 77}	INTEGER	c9		o.1		o.1		–		–		o.1		
7	callTimeouts	{2 13 0 2 7 55}	INTEGER	–		o.1		–		–		–		–		
8	callsConnected	{2 13 0 2 7 53}	INTEGER	–		o.1		–		–		–		–		
9	clearCountsExceeded	{2 13 0 2 7 66}	INTEGER	–		o.1		–		–		–		–		
10	clearRequestResponseTimer	{2 13 0 2 7 79}	INTEGER	c9		o.1		o.1		–		–		o.1		
11	clearRequestRetransmission Count	{2 13 0 2 7 81}	INTEGER	c9		o.1		o.1		–		–		o.1		
12	clearTimeouts	{2 13 0 2 7 56}	INTEGER	–		o.1		–		–		–		–		
13	dataPacketRetransmissionCount	{2 13 0 2 7 85}	INTEGER	c9		o.1		o.1		–		–		o.1		
14	dataPacketsReceived	{2 13 0 2 7 51}	INTEGER	–		o.1		–		–		–		–		
15	dataPacketsSent	{2 13 0 2 7 50}	INTEGER	–		o.1		–		–		–		–		
16	dataRetransmissionTimerExpiries	{2 13 0 2 7 58}	INTEGER	–		o.1		–		–		–		–		
17	defaultPacketSizes	{2 13 0 2 7 103}	SEQUENCE	c9		o.1		o.1		–		–		o.1		
18	defaultThroughputClasses	{2 13 0 2 7 112}	SEQUENCE	c9		o.1		o.1		–		–		o.1		
19	defaultWindowSizes	{2 13 0 2 7 104}	SEQUENCE	c9		o.1		o.1		–		–		o.1		
20	extendedPacketSequenceNumbering	{2 13 0 2 7 49}	INTEGER	c9		o.1		o.1		–		–		o.1		

Table E.15 *(continued)*

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
21	flowControlParameterNegotiation	{2 13 0 2 7 119}	BOOLEAN	c9		o.1		o.1		–		–		o.1		
22	interruptResponseTimer	{2 13 0 2 7 82}	INTEGER	c9		o.1		o.1		–		–		o.1		
23	localDTEAddress	{2 13 0 2 7 39}	SEQUENCE	c9		o.1		o.1		–		–		o.1		
24	logicalChannelAssignments	{2 13 0 2 7 48}	SEQUENCE	c9		o.1		o.1		–		–		–		
25	maxActiveCircuits	{2 13 0 2 7 41}	CHOICE	c9		o.1		o.1		–		–		o.1		
26	minimumRecallTimer	{2 13 0 2 7 43}	INTEGER	c9		o.1		o.1		–		–		o.1		
27	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c9		o.1		–		–		–		–		
28	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c9		o.1		–		–		–		–		
29	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	–		o.1		–		–		–		–		
30	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	–		o.1		–		–		–		–		
31	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	–		o.1		–		–		–		–		
32	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c9		o.1		–		–		–		–		
33	protocolErrorsAccusedOf	{2 13 0 2 7 64}	INTEGER	–		o.1		–		–		–		–		
34	protocolErrorsDetectedLocally	{2 13 0 2 7 63}	INTEGER	–		o.1		–		–		–		–		
35	protocolVersionSupported	{2 13 0 2 7 38}	ENUMERATED	–		o.1		–		–		–		–		
36	providerInitiatedDisconnects	{2 13 0 2 7 54}	INTEGER	–		o.1		–		–		–		–		
37	providerInitiatedResets	{2 13 0 2 7 59}	INTEGER	–		o.1		–		–		–		–		
38	registrationPermitted	{2 13 0 2 7 105}	BOOLEAN	c9		o.1		o.1		–		–		o.1		
39	registrationRequestResponseTimer	{2 13 0 2 7 44}	INTEGER	c9		o.1		o.1		–		–		o.1		

Table E.15 *(concluded)*

				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
40	registrationRequestRetransmissionCount	{2 13 0 2 7 46}	INTEGER	c9		o.1		o.1		–		–		o.1		
41	rejectResponseTimer	{2 13 0 2 7 86}	INTEGER	c9		o.1		o.1		–		–		o.1		
42	rejectRetransmissionCount	{2 13 0 2 7 87}	INTEGER	c9		o.1		o.1		–		–		o.1		
43	remotelyInitiatedResets	{2 13 0 2 7 57}	INTEGER	–		o.1		–		–		–		–		
44	remotelyInitiatedRestarts	{2 13 0 2 7 61}	INTEGER	–		o.1		–		–		–		–		
45	resetRequestResponseTimer	{2 13 0 2 7 78}	INTEGER	c9		o.1		o.1		–		–		o.1		
46	resetRequestRetransmissionCount	{2 13 0 2 7 80}	INTEGER	c9		o.1		o.1		–		–		o.1		
47	resetTimeouts	{2 13 0 2 7 60}	INTEGER	–		o.1		–		–		–		–		
48	restartCountsExceeded	{2 13 0 2 7 62}	INTEGER	–		o.1		–		–		–		–		
49	restartRequestResponseTimer	{2 13 0 2 7 42}	INTEGER	c9		o.1		o.1		–		–		o.1		
50	restartRequestRetransmissionCount	{2 13 0 2 7 45}	INTEGER	c9		o.1		o.1		–		–		o.1		
51	sN-SAP	{2 13 0 2 7 18}	ObjectInstance	–		o.1		–		–		–		–		
52	sN-ServiceProvider	{2 13 0 2 7 19}	ObjectInstance	c9		o.1		o.1		–		–		o.1		
53	throughputClassNegotiation	{2 13 0 2 7 168}	BOOLEAN	c9		o.1		o.1		–		–		o.1		
54	windowRotationTimer	{2 13 0 2 7 84}	INTEGER	c9		o.1		o.1		–		–		o.1		
55	windowStatusTransmissionTimer	{2 13 0 2 7 83}	INTEGER	c9		o.1		o.1		–		–		o.1		
56	x25PLEId	{2 13 0 2 7 36}	GraphicString	c9		o.1		–		–		–		–		
57	x25PLEMode	{2 13 0 2 7 120}	ENUMERATED	c9		o.1		o.1		–		–		–		
c9: if E.40/1a then o.1 else –																

E.4.1.16 The X25 PLE-DCE initial values managed object

See Table E.16.

Table E.16 – x25PLEIVMO-DCE 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.1		o.1		–		–		–		–		
2	defaultPacketSizes	{2 13 0 2 7 103}	SEQUENCE	o.1		o.1		o.1		–		–		o.1		
3	defaultThroughputClasses	{2 13 0 2 7 112}	SEQUENCE	o.1		o.1		o.1		–		–		o.1		
4	defaultWindowSizes	{2 13 0 2 7 104}	SEQUENCE	o.1		o.1		o.1		–		–		o.1		
5	flowControlParameterNegotiation	{2 13 0 2 7 119}	BOOLEAN	o.1		o.1		o.1		–		–		o.1		
6	localDTEAddress	{2 13 0 2 7 39}	SEQUENCE	o.1		o.1		o.1		–		–		–		
7	logicalChannelAssignments	{2 13 0 2 7 48}	SEQUENCE	o.1		o.1		o.1		–		–		–		
8	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	o.1		o.1		–		–		–		–		
9	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	o.1		o.1		–		–		–		–		
10	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	o.1		o.1		–		–		–		–		
11	sN-ServiceProvider	{2 13 0 2 7 19}	ObjectInstance	o.1		o.1		o.1		–		–		–		
12	throughputClassNegotiation	{2 13 0 2 7 168}	BOOLEAN	o.1		o.1		o.1		–		–		o.1		
13	x25PLEIVMOId	{2 13 0 2 7 37}	GraphicString	o.1		o.1		–		–		–		–		
14	x25PLEMode	{2 13 0 2 7 120}	ENUMERATED	o.1		o.1		o.1		–		–		–		

E.4.1.17 The X25 PLE-DTE initial values managed object

See Table E.17.

Table E.17 – x25PLEIVMO-DTE 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.1		o.1		–		–		–		–		
2	callDeflectionSubscription	{2 13 0 2 7 114}	BOOLEAN	o.1		o.1		o.1		–		–		o.1		
3	callRequestResponseTimer	{2 13 0 2 7 77}	INTEGER	o.1		o.1		o.1		–		–		o.1		
4	clearRequestResponseTimer	{2 13 0 2 7 79}	INTEGER	o.1		o.1		o.1		–		–		o.1		
5	clearRequestRetransmissionCount	{2 13 0 2 7 81}	INTEGER	o.1		o.1		o.1		–		–		o.1		
6	dataPacketRetransmissionCount	{2 13 0 2 7 85}	INTEGER	o.1		o.1		o.1		–		–		o.1		
7	defaultPacketSizes	{2 13 0 2 7 103}	SEQUENCE	o.1		o.1		o.1		–		–		o.1		
8	defaultThroughputClasses	{2 13 0 2 7 112}	SEQUENCE	o.1		o.1		o.1		–		–		o.1		
9	defaultWindowSizes	{2 13 0 2 7 104}	SEQUENCE	o.1		o.1		o.1		–		–		o.1		
10	extendedPacketSequenceNumbering	{2 13 0 2 7 49}	INTEGER	o.1		o.1		o.1		–		–		o.1		
11	flowControlParameterNegotiation	{2 13 0 2 7 119}	BOOLEAN	o.1		o.1		o.1		–		–		o.1		
12	interruptResponseTimer	{2 13 0 2 7 82}	INTEGER	o.1		o.1		o.1		–		–		o.1		
13	localDTEAddress	{2 13 0 2 7 39}	SEQUENCE	o.1		o.1		o.1		–		–		–		
14	logicalChannelAssignments	{2 13 0 2 7 48}	SEQUENCE	o.1		o.1		o.1		–		–		–		
15	maxActiveCircuits	{2 13 0 2 7 41}	CHOICE	o.1		o.1		o.1		–		–		o.1		
16	minimumRecallTimer	{2 13 0 2 7 43}	INTEGER	o.1		o.1		o.1		–		–		o.1		
17	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	o.1		o.1		–		–		–		–		
18	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	o.1		o.1		–		–		–		–		

Table E.17 *(concluded)*

				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
19	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	o.1		o.1		–		–		–		–		
20	registrationPermitted	{2 13 0 2 7 105}	BOOLEAN	o.1		o.1		o.1		–		–		o.1		
21	registrationRequestResponseTimer	{2 13 0 2 7 44}	INTEGER	o.1		o.1		o.1		–		–		o.1		
22	registrationRequestRetransmissionCount	{2 13 0 2 7 46}	INTEGER	o.1		o.1		o.1		–		–		o.1		
23	rejectResponseTimer	{2 13 0 2 7 86}	INTEGER	o.1		o.1		o.1		–		–		o.1		
24	rejectRetransmissionCount	{2 13 0 2 7 87}	INTEGER	o.1		o.1		o.1		–		–		o.1		
25	resetRequestResponseTimer	{2 13 0 2 7 78}	INTEGER	o.1		o.1		o.1		–		–		o.1		
26	resetRequestRetransmissionCount	{2 13 0 2 7 80}	INTEGER	o.1		o.1		o.1		–		–		o.1		
27	restartRequestResponseTimer	{2 13 0 2 7 42}	INTEGER	o.1		o.1		o.1		–		–		o.1		
28	restartRequestRetransmissionCount	{2 13 0 2 7 45}	INTEGER	o.1		o.1		o.1		–		–		o.1		
29	sN-ServiceProvider	{2 13 0 2 7 19}	ObjectInstance	o.1		o.1		o.1		–		–		–		
30	throughputClassNegotiation	{2 13 0 2 7 168}	BOOLEAN	o.1		o.1		o.1		–		–		o.1		
31	windowRotationTimer	{2 13 0 2 7 84}	INTEGER	o.1		o.1		o.1		–		–		o.1		
32	windowStatusTransmissionTimer	{2 13 0 2 7 83}	INTEGER	o.1		o.1		o.1		–		–		o.1		
33	x25PLEIVMOId	{2 13 0 2 7 37}	GraphicString	o.1		o.1		–		–		–		–		
34	x25PLEMode	{2 13 0 2 7 120}	ENUMERATED	o.1		o.1		o.1		–		–		–		

E.4.2 Attribute groups

The specifier of a manager role implementation that claims to support management operations on the attribute groups specified in this Recommendation | International Standard shall import a copy of Tables E.18 through E.27 and complete them.

E.4.2.1 The CLNS managed object

See Table E.18.

Table E.18 – cLNS 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}		o.1		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": state	{2 9 3 2 8 1}		o.1		–		

E.4.2.2 The CONS managed object

See Table E.19.

Table E.19 – cONS 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	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": state	{2 9 3 2 8 1}		o.1		–		

E.4.2.3 The Recommendation D-Series counts managed object

See Table E.20.

Table E.20 – dSeriesCounts 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}		o.1		–		

E.4.2.4 The linkage managed object

See Table E.21.

Table E.21 – linkage 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}		o.1		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": state	{2 9 3 2 8 1}		o.1		–		

E.4.2.5 The permanent virtual circuit-DCE managed object

See Table E.22.

Table E.22 – permanentVirtualCircuit-DCE 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}		o.1		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": state	{2 9 3 2 8 1}		o.1		–		

E.4.2.6 The permanent virtual circuit-DTE managed object

See Table E.23.

Table E.23 – permanentVirtualCircuit-DTE 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}		o.1		–		

E.4.2.7 The virtual call-DCE managed object

See Table E.24.

Table E.24 – virtualCall-DCE 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}		o.1		–		

E.4.2.8 The virtual call-DTE managed object

See Table E.25.

Table E.25 – virtualCall-DTE 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}		o.1		–		

E.4.2.9 The X25 PLE-DCE managed object

See Table E.26.

Table E.26 – x25PLE-DCE 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}		o.1		–		
2	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": counters	{2 9 3 5 8 0}		o.1		–		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": state	{2 9 3 2 8 1}		o.1		–		

E.4.2.10 The X25 PLE-DTE managed object

See Table E.27.

Table E.27 – x25PLE-DTE 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}		o.1		–		
2	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": counters	{2 9 3 5 8 0}		o.1		–		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": state	{2 9 3 2 8 1}		o.1		–		

E.4.3 Create and delete management operations

The specifier of a manager role implementation that claims to support the create or delete management operations on the managed objects specified in this Recommendation | International Standard shall import a copy of Tables E.28 through E.42 and complete them.

E.4.3.1 The CLNS managed object

See Table E.28.

Table E.28 – cLNS create and delete support

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

E.4.3.2 The CONS managed object

See Table E.29.

Table E.29 – cONS create and delete support

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

E.4.3.3 The Recommendation D-Series counts managed object

See Table E.30.

Table E.30 – dSeriesCounts create and delete support

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

E.4.3.4 The linkage managed object

See Table E.31.

Table E.31– linkage create and delete support

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

E.4.3.5 The NSAP managed object

See Table E.32.

Table E.32 –nSAP create and delete support

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

E.4.3.6 The network connection managed object

See Table E.33.

Table E.33 – networkConnection create and delete support

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

E.4.3.7 The network entity managed object

See Table E.34.

Table E.34 – networkEntity create and delete support

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

E.4.3.8 The permanent virtual circuit-DCE managed object

See Table E.35.

Table E.35 – permanentVirtualCircuit-DCE create and delete support

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

E.4.3.9 The permanent virtual circuit-DTE managed object

See Table E.36.

Table E.36 – permanentVirtualCircuit-DTE create and delete support

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

E.4.3.10 The virtual call-DCE managed object

See Table E.37.

Table E.37 – virtualCall-DCE create and delete support

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

E.4.3.11 The virtual call initial values managed object

See Table E.38.

Table E.38 – virtualCallIVMO create and delete support

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

E.4.3.12 The X25 PLE-DCE managed object

See Table E.39.

Table E.39 – x25PLE-DCE create and delete support

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

E.4.3.13 The X25 PLE-DTE managed object

See Table E.40.

Table E.40 – x25PLE-DTE create and delete support

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

E.4.3.14 The X25 PLE-DCE initial values managed object

See Table E.41.

Table E.41 – x25PLEIVMO-DCE create and delete support

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

E.4.3.15 The X25 PLE-DTE initial values managed object

See Table E.42.

Table E.42 – x25PLEIVMO-DTE create and delete support

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

E.4.4 Notifications

The specifier of a manager role implementation that claims to support the notifications specified in this Recommendation | International Standard shall import a copy of Table E.43 and complete it.

Table E.43 – Notification support

					Support									
Index	Notification type templace 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}		c10				1.1	AlarmInfo	–	**Information Syntax** SEQUENCE	c10		
								1.1.1	probableCause	{2 9 3 2 7 18}	CHOICE	c:m		
								1.1.1.1	globalValue	–	OBJECT IDENTIFIER	c:m		
								1.1.1.2	localValue	–	INTEGER	c:m		
								1.1.2	specificProblems	{2 9 3 2 7 27}	SET OF CHOICE	c:m		
								1.1.2.1	OBJECT IDENTIFIER	–	OBJECT IDENTIFIER	c:m		
								1.1.2.2	INTEGER	–	INTEGER	c:m		
								1.1.3	perceivedSeverity	{2 9 3 2 7 17}	ENUMERATED	c:m		
								1.1.4	backedUpStatus	{2 9 3 2 7 11}	BOOLEAN	c:m		
								1.1.5	backUpObject	{2 9 3 2 7 40}	ObjectInstance	c:m		
								1.1.6	trendIndication	{2 9 3 2 7 30}	ENUMERATED	c:m		
								1.1.7	thresholdInfo	{2 9 3 2 7 29}	SEQUENCE	c:m		
								1.1.7.1	triggeredThreshold	–	AttributeId	c:m		
								1.1.7.2	observedValue	–	CHOICE	c:m		
								1.1.7.2.1	integer	–	INTEGER	c:m		
								1.1.7.2.2	real	–	REAL	c:m		
								1.1.7.3	thresholdLevel	–	CHOICE	c:m		
								1.1.7.3.1	up	–	SEQUENCE	c:m		

Table E.43 *(continued)*

Index	Notification type templace 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								
								1.1.7.3.1.1	high	–	CHOICE	c:m		
								1.1.7.3.1.1.1	integer	–	INTEGER	c:m		
								1.1.7.3.1.1.2	real	–	REAL	c:m		
								1.1.7.3.1.2	low	–	CHOICE	c:m		
								1.1.7.3.1.2.1	integer	–	INTEGER	c:m		
								1.1.7.3.1.2.2	real	–	REAL	c:m		
								1.1.7.3.2	down	–	SEQUENCE	c:m		
								1.1.7.3.2.1	high	–	CHOICE	c:m		
								1.1.7.3.2.1.1	integer	–	INTEGER	c:m		
								1.1.7.3.2.1.2	real	–	REAL	c:m		
								1.1.7.3.2.2	low	–	CHOICE	c:m		
								1.1.7.3.2.2.1	integer	–	INTEGER	c:m		
								1.1.7.3.2.2.2	real	–	REAL	c:m		
								1.1.7.4	armTime	–	GeneralizedTime	c:m		
								1.1.8	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	c:m		
								1.1.9	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	c:m		
								1.1.9.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								1.1.9.2	sourceObjectInst	–	ObjectInstance	c:m		
								1.1.10	stateChangeDefinition	{2 9 3 2 7 28}	SET OF SEQUENCE	c:m		
								1.1.10.1	attributeID	–	AttributeId	c:m		
								1.1.10.2	oldAttributeValue	–	ANY DEFINED BY attributeID	c:m		
								1.1.10.3	newAttributeValue	–	ANY DEFINED BY attributeID	c:m		
								1.1.11	monitoredAttributes	{2 9 3 2 7 15}	SET OF Attribute	c:m		
								1.1.12	proposedRepair Actions	{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		

Table E.43 *(continued)*

Index	Notification type templace 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
								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		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectCreation	{2 9 3 2 10 6}		c11				2.1	ObjectInfo	–	**Information Syntax** SEQUENCE	c11		
								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.43 *(continued)*

Index	Notification type templace 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
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectDeletion	{2 9 3 2 10 7}		c12				3.1	ObjectInfo	–	**Information Syntax** SEQUENCE	c12		
								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		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": stateChange	{2 9 3 2 10 14}		c13				4.1	StateChangeInfo	–	**Information Syntax** SEQUENCE	c13		
								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		

Table E.43 *(concluded)*

Index	Notification type templace 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
								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		
5	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsInformation	{2 9 3 5 10 0}		c14				5.1	CommunicationsInformation	–	**Information Syntax** SEQUENCE	c14		
								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		

c10: if D.3/4a or D.3/19a or D.3/53a then m else –
c11: if D.3/6a or D.3/12a or D.3/15a or D.3/21a or D.3/24a or D.3/28a or D.3/30a or D.3/32a or D.3/35a or D.3/38a or D.3/42a or D.3/44a or D.3/48a or D.3/54a or D.3/57a or D.3/59a then m else –
c12: if D.3/7a or D.3/13a or D.3/17a or D.3/22a or D.3/25a or D.3/29a or D.3/31a or D.3/33a or D.3/36a or D.3/39a or D.3/43a or D.3/45a or D.3/49a or D.3/55a or D.3/58a or D.3/60a then m else –
c13: if D.3/8a or D.3/14a or D.3/23a or D.3/34a or D.3/50a or D.3/56a then m else –
c14: if D.3/5a or D.3/20a or D.3/27a or D.3/37a or D.3/41a then m else –

E.4.5 Actions

The specifier of a manager role implementation that claims to support the actions specified in this Recommendation | International Standard shall import a copy of Table E.44 and complete it.

Table E.44 – 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}		c15			1.1	ActionInfo	**Information Syntax** SET OF SEQUENCE	c15		
							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:o		
							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}		c16			2.1	ActionInfo	**Information Syntax** SET OF SEQUENCE	c16		
							2.1.1	identifier	OBJECT IDENTIFIER	c:m		
							2.1.2	significance	BOOLEAN	c:o		

Table E.44 *(concluded)*

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:o		
							2.2.3	information	ANY DEFINED BY identifier	c:m		
3	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": deactivateWhenNoUsers	{2 9 3 5 9 2}		c17			3.1	ActionInfo	**Information Syntax** SET OF SEQUENCE	c17		
							3.1.1	identifier	OBJECT IDENTIFIER	c:m		
							3.1.2	significance	BOOLEAN	c:o		
							3.1.3	information	ANY DEFINED BY identifier	c:m		
							3.2	ActionReply	**Reply Syntax** SET OF SEQUENCE	c:m		
							3.2.1	identifier	OBJECT IDENTIFIER	c:m		
							3.2.2	significance	BOOLEAN	c:o		
							3.2.3	information	ANY DEFINED BY identifier	c:m		

c15: if D.3/2a or D.3/9a or D.3/17a or D.3/46a or D.3/51 then m else –
c16: if D.3/3a or D.3/10a or D.3/18a or D.3/40a or D.3/47a or D.3/52 then m else –
c17: if D.3/11a then m else –

E.4.6 Parameters

The specifier of a manager role implementation that claims to support the parameters specified in this Recommendation | International Standard shall import a copy of Table E.45 and complete it.

Table E.45 – Parameter support

Index	Parameter template label	Value of object identifier for parameter	Constraints and values	Status	Support	Additional information
1	notificationPDUHeader	{2 13 0 2 5 1}	EVENT-INFO communicationsAlarm	c18		
2	"ISO/IEC 10589:1992": notificationAreaAddress	{2 13 0 1 5 x}	EVENT-INFO communicationsAlarm	c18		
3	"ISO/IEC 10589:1992": notificationIDLength	{2 13 0 1 5 x}	EVENT-INFO communicationsAlarm	c18		
4	"ISO/IEC 10589:1992": notificationAreaAddress	{2 13 0 1 5 x}	EVENT-INFO communicationsAlarm	c18		
5	"ISO/IEC 10589:1992": notificationOverloadStateChange	{2 13 0 1 5 25}	EVENT-INFO communicationsAlarm	c18		
6	"ISO/IEC 10589:1992": notificationReceivingAdjacency	{2 13 0 1 5 x}	EVENT-INFO communicationsAlarm	c18		
7	"ISO/IEC 10589:1992": notificationSourceId	{2 13 0 1 5 14}	EVENT-INFO communicationsAlarm	c18		
8	"ISO/IEC 10589:1992": notificationSystemId	{2 13 0 1 5 19}	EVENT-INFO communicationsAlarm	c19		
9	"ISO/IEC 10589:1992": notificationVirtualLinkAddress	{2 13 0 1 5 16}	EVENT-INFO communicationsInformation	c20		
10	"ISO/IEC 10589:1992": notificationVirtualLinkChange	{2 13 0 1 5 15}	EVENT-INFO communicationsInformation	c20		
11	"ISO/IEC 10589:1992": constraintViolation	{2 13 0 1 5 10}	SPECIFIC-ERROR maximumAreaAddresses maximumPathSplits maximumVirtualAdjacencies originatingL1LSPBufferSize originatingL2LSPBufferSize neighbourSNPAAddress manualL2OnlyMode	c21		
12	reachabilityChange	{2 13 0 2 5 12}	EVENT-INFO communicationsInformation	c22		
13	"ISO/IEC 10589:1992": notificationDesignatedIntermediateSystemChange	{2 13 0 1 5 24}	EVENT-INFO communicationsInformation	c22		
14	notificationData	{2 13 0 2 5 7}	EVENT-INFO communicationsAlarm	c23		

c18: if D.3/4a then m else –

c19: if D.3/4a or D.3/19a then m else –

c20: if D.3/5a then m else –

c21: if E.1/26a or E.1/26b or E.1/26c or E.1/30a or E.1/30b or E.1/30c or E.1/31a or E.1/31b or E.1/31c or E.1/31f or E.1/41a or E.1/41b or E.1/41c or E.1/42a or E.1/42b or E.1/42c or E.1/42f or E.4/48a or E.4/48b or E.4/48c or E.4/48f or E.4/64a or E.4/64b or E.4/64c or E.4/64f then m else –

c22: if D.3/20a then m else –

c23: if D.3/53a then m else –

Annexe F[5)]

Formulaire MOCS

(Cette annexe fait partie intégrante de la présente Recommandation | Norme internationale)

F.1 Introduction

The purpose of this MOCS proforma is to provide a mechanism for a supplier of an implementation of a Recommendation | International Standard 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[6)]

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 ITU-T Rec. X.291 | ISO/IEC 9646-2.

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

F.2 The CLNS managed object

F.2.1 Statement of conformance to the managed object class

See Table F.1.

Table F.1 – cLNS 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	cLNS	{2 13 0 2 3 21}		

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 – cLNS 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

5) **Droits de reproduction du formulaire MOCS**

Les utilisateurs de la présente Recommandation | Norme internationale sont autorisés à reproduire le formulaire MOCS de la présente annexe pour l'utiliser conformément à son objet. Ils sont également autorisés à publier le formulaire une fois celui-ci complété.

6) Les instructions permettant de remplir le formulaire MOCS sont indiquées dans la Rec. UIT-T X.724 | ISO/CEI 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 – cLNS 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": topPackage		Mandatory	m		
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"	c1		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c2		
4	cLNS-P		Mandatory	m		
5	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": clProtocolMachineP1		Mandatory	m		
6	"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		
7	cLNS8473-P	{2 13 0 2 4 20}	"The protocol defined in ISO 8473 is used to implement the CLNS"	o		
8	cLNSChecksum-P	{2 13 0 2 4 1}	"The ISO 8473 Generate Checksum option is implemented"	o		
9	"ISO/IEC 10589:1992": cLNSISISBasic-P	{2 13 0 1 4 1}	"The system is an ISO 10589 IS"	o		
10	"ISO/IEC 10589:1992": cLNSISISAuthentication-P	{2 13 0 1 4 4}	"The system is an ISO 10589 IS and the authentication procedures are implemented"	o		
11	"ISO/IEC 10589:1992": cLNSISISPartitionRepair-P	{2 13 0 1 4 3}	"The system is an ISO 10589 Level 2 IS and the partition repair procedures are implemented"	o		
12	"ISO/IEC 10589:1992": cLNSISISLevel2-P	{2 13 0 1 4 2}	"The system is an ISO 10589 Level 2 IS"	o		
13	"ISO/IEC 10589:1992": cLNSISISLevel2Authentication-P	{2 13 0 1 4 5}	"The system is an ISO 10589 Level 2 IS and the authentication procedures are implemented"	o		

c1: if F.3/3a or F.3/6a or F.3/8a or F.3/9a or F.3/10a or F.3/11a or F.3/12a or F.3/13a then m else –
c2: if F.1/1b then – else m

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 – cLNS 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		m		m		–		–		c4		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c5		c6		–		–		–		–		
3	"ISO/IEC 10589:1992": areaAddresses	{2 13 0 1 7 18}	SET OF OCTET STRING	c7		c8		c9		c9		c9		c9		
4	"ISO/IEC 10589:1992": areaReceivePasswords	{2 13 0 1 7 112}	SET OF OCTET STRING	c10		c11		c11		c11		c11		c11		
5	"ISO/IEC 10589:1992": areaTransmitPassword	{2 13 0 1 7 111}	OCTET STRING	c10		c11		c11		–		–		c11		
6	assemblingSegmentsDiscarded	{2 13 0 2 7 8}	INTEGER	c12		m		c4		–		–		c4		
7	"ISO/IEC 10589:1992": attemptsToExceedMaximumSequenceNumber	{2 13 0 1 7 22}	INTEGER	c7		c8		c9		–		–		c9		
8	"ISO/IEC 10589:1992": authenticationFailures	{2 13 0 1 7 117}	INTEGER	c13		c11		c14		–		–		c14		
9	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": clProtocolMachineId	{2 9 3 5 7 2}	GraphicString	c15		m		x		–		–		x		
10	"ISO/IEC 10589:1992": completeSNPInterval	{2 13 0 1 7 8}	INTEGER	c16		c8		c8		–		–		c9		
11	congestionDiscards	{2 13 0 2 7 11}	INTEGER	c12		m		c4		–		–		c4		
12	"ISO/IEC 10589:1992": corruptedLSPsDetected	{2 13 0 1 7 19}	INTEGER	c7		c8		c9		–		–		c9		
13	"ISO/IEC 10589:1992": dRISISHelloTimer	{2 13 0 1 7 16}	INTEGER	c16		c8		c8		–		–		c9		
14	"ISO/IEC 10589:1992": domainReceivePasswords	{2 13 0 1 7 114}	SET OF OCTET STRING	c17		c18		c18		c18		c18		c18		
15	"ISO/IEC 10589:1992": domainTransmitPassword	{2 13 0 1 7 113}	OCTET STRING	c17		c18		c18		–		–		c18		

Table F.4 *(continued)*

				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
16	enableChecksum	{2 13 0 2 7 4}	BOOLEAN	c19		c20		c20		–		–		c20		
17	errorReportsReceived	{2 13 0 2 7 9}	INTEGER	c12		m		c4		–		–		c4		
18	"ISO/IEC 10589:1992": iDFieldLengthMismatches	{2 13 0 1 7 25}	INTEGER	c7		c8		c9		–		–		c9		
19	"ISO/IEC 10589:1992": iSType	{2 13 0 1 7 2}	ENUMERATED	c16		c8		c9		–		–		c9		
20	"ISO/IEC 10589:1992": l1State	{2 13 0 1 7 17}	ENUMERATED	c7		c8		c9		–		–		c9		
21	"ISO/IEC 10589:1992": l2State	{2 13 0 1 7 28}	ENUMERATED	c21		c22		c23		–		–		c23		
22	"ISO/IEC 10589:1992": lSPL1DatabaseOverloads	{2 13 0 1 7 20}	INTEGER	c7		c8		c9		–		–		c9		
23	"ISO/IEC 10589:1992": lSPL2DatabaseOverloads	{2 13 0 1 7 32}	INTEGER	c21		c22		c23		–		–		c23		
24	"ISO/IEC 10589:1992": manualAddressesDroppedFromArea	{2 13 0 1 7 21}	INTEGER	c7		c8		c9		–		–		c9		
25	"ISO/IEC 10589:1992": manualareaAddresses	{2 13 0 1 7 10}	SET OF OCTET STRING	c7		c8		c9		c9		c9		c9		
26	"ISO/IEC 10589:1992": maximumAreaAddresses	{2 13 0 1 7 4}	INTEGER "ISO/IEC 10589:1992": constraintViolation	c16		c8		c8		–		–		c9		
27	"ISO/IEC 10589:1992": maximumAreaAddressesMismatches	{2 13 0 1 7 118}	INTEGER	c7		c8		c9		–		–		c9		
28	"ISO/IEC 10589:1992": maximumLSPGenerationInterval	{2 13 0 1 7 6}	INTEGER	c16		c8		c8		–		–		c9		
29	maximumLifetime	{2 13 0 2 7 102}	INTEGER	c3		m		m		–		–		c4		
30	"ISO/IEC 10589:1992": maximumPathSplits	{2 13 0 1 7 3}	INTEGER "ISO/IEC 10589:1992": constraintViolation	c16		c8		c8		–		–		c8		

Table F.4 *(continued)*

				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
31	"ISO/IEC 10589:1992": maximumVirtualAdjacencies	{2 13 0 1 7 27}	INTEGER "ISO/IEC 10589:1992": constraintViolation	c24		c25		c25		–		–		c25		
32	"ISO/IEC 10589:1992": minimumBroadcastLSPTransmissionInterval	{2 13 0 1 7 7}	INTEGER	c16		c8		c8		–		–		c9		
33	"ISO/IEC 10589:1992": minimumLSPGenerationInterval	{2 13 0 1 7 11}	INTEGER	c16		c8		c8		–		–		c9		
34	"ISO/IEC 10589:1992": minimumLSPTransmissionInterval	{2 13 0 1 7 5}	INTEGER	c16		c8		c8		–		–		c9		
35	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c15		m		x		–		–		x		
36	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c3		m		x		–		–		x		
37	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	c12		m		c4		–		–		c4		
38	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	c12		m		c4		–		–		c4		
39	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	x		m		x		–		–		x		
40	operationalSystemType	{2 13 0 2 7 109}	ENUMERATED	c3		m		c4		–		–		c4		
41	"ISO/IEC 10589:1992": originatingL1LSPBufferSize	{2 13 0 1 7 9}	INTEGER "ISO/IEC 10589:1992": constraintViolation	c16		c8		c8		–		–		c9		

Table F.4 *(continued)*

				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
42	"ISO/IEC 10589:1992": originatingL2LSPBufferSize	{2 13 0 1 7 26}	INTEGER "ISO/IEC 10589:1992": constraintViolation	c26		c22		c22		–		–		c22		
43	"ISO/IEC 10589:1992": ownLSPPurges	{2 13 0 1 7 24}	INTEGER	c7		c8		c9		–		–		c9		
44	pDUDiscards	{2 13 0 2 7 10}	INTEGER	c12		m		c4		–		–		c4		
45	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c27		c28		c29		c29		c29		c29		
46	"ISO/IEC 10589:1992": partialSNPInterval	{2 13 0 1 7 14}	INTEGER	c16		c8		c8		–		–		c9		
47	"ISO/IEC 10589:1992": partitionAreaAddresses	{2 13 0 1 7 29}	SET OF OCTET STRING	c30		c25		c31		c31		c31		c31		
48	"ISO/IEC 10589:1992": partitionDesignatedL2IntermediateSystem	{2 13 0 1 7 30}	OCTET STRING	c30		c25		c31		–		–		c31		
49	"ISO/IEC 10589:1992": partitionVirtualLinkChanges	{2 13 0 1 7 31}	INTEGER	c30		c25		c31		–		–		c31		
50	"ISO/IEC 10589:1992": pollESHelloRate	{2 13 0 1 7 13}	INTEGER	c16		c8		c8		–		–		c9		
51	segmentsDiscarded	{2 13 0 2 7 7}	INTEGER	c12		m		c4		–		–		c4		
52	segmentsReceived	{2 13 0 2 7 6}	INTEGER	c12		m		c4		–		–		c4		
53	segmentsSent	{2 13 0 2 7 118}	INTEGER	c12		m		c4		–		–		c4		
54	"ISO/IEC 10589:1992": sequenceNumberSkips	{2 13 0 1 7 23}	INTEGER	c7		c8		c9		–		–		c9		
55	supportedProtocols	{2 13 0 2 7 110}	SET OF SEQUENCE	c12		m		c4		c4		c4		c4		
56	"ISO/IEC 10589:1992": systemId	{2 13 0 1 7 119}	OCTET STRING	c7		c8		c9		–		–		c9		
57	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": totalRemoteSAPs	{2 9 3 5 7 13}	INTEGER	c32		c33		c34		–		–		c34		
58	"ISO/IEC 10589:1992": version	{2 13 0 1 7 1}	GraphicString	c7		c8		c9		–		–		c9		

Table F.4 *(concluded)*

				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
59	"ISO/IEC 10589:1992": waitingTime	{2 13 0 1 7 15}	INTEGER	c16		c8		c8		–		–		c9		

c3: if G.1/2a then m else x
c4: if F.1/1b then x else –
c5: if F.3/3a then (if G.1/2a then o else x) else –
c6: if F.3/3a then m else –
c7: if F.3/9a and [F.1/1b or (G.1/1a or G.1/3a)] then x else –
c8: if F.3/9a then m else –
c9: if F.3/9a and F.1/1b then x else –
c10: if F.3/10a then (if G.1/2a then m else x) else –
c11: if F.3/10a then m else –
c12: if F.1/1b or (G.1/1a or G.1/3a) then x else –
c13: if F.3/10a and [F.1/1b or (G.1/1a or G.1/3a)] then x else –
c14: if F.3/10a and F.1/1b then x else –
c15: if G.1/2a then o else x
c16: if F.3/9a then (if G.1/2a then m else x) else –
c17: if F.3/13a then (if G.1/2a then m else x) else –
c18: if F.3/13a then m else –
c19: if F.3/8a then (if G.1/2a then m else x) else –
c20: if F.3/8a then m else –
c21: if F.3/12a and [F.1/1b or (G.1/1a or G.1/3a)] then x else –
c22: if F.3/12a then m else –
c23: if F.3/12a and F.1/1b then x else –
c24: if F.3/11a then (if G.1/2a then m else x) else –
c25: if F.3/11a then m else –
c26: if F.3/12a then (if G.1/2a then m else x) else –
c27: if F.3/2a then (if G.1/2a then o else x) else –
c28: if F.3/2a then m else –
c29: if F.3/2a then x else –
c30: if F.3/11a and [F.1/1b or (G.1/1a or G.1/3a)] then x else –
c31: if F.3/11a and F.1/1b then x else –
c32: if F.3/6a and [F.1/1b or (G.1/1a or G.1/3a)] then x else –
c33: if F.3/6a then m else –
c34: if F.3/6a and F.1/1b then x else –

F.2.4 Attribute group

See Table F.5.

Table F.5 – cLNS 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}		m		c4		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": state	{2 9 3 2 8 1}		m		c4		

F.2.5 Action

See Table F.6.

Table F.6 – cLNS 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.2.6 Notification

See Table F.7.

Table F.7 – cLNS 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			notificationPDUHeader	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		

Table F.7 *(continued)*

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: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		
								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		

Table F.7 *(continued)*

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								
								1.1.9.1	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		
								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		

Table F.7 *(continued)*

					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	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsInformation	{2 9 3 5 10 0}		c35			"ISO/IEC 10589:1992": notificationVirtualLinkAddress "ISO/IEC 10589:1992": notificationVirtualLinkChange	2.1	CommunicationsInformation		**Information Syntax** SEQUENCE	c35		
								2.1.1	informationType	{2 9 3 5 7 5}	OBJECT IDENTIFIER	c:m		
								2.1.2	informationData	{2 9 3 5 7 4}	SET OF SEQUENCE	c:o		
								2.1.2.1	identifier	–	OBJECT IDENTIFIER	c:m		
								2.1.2.2	significance	–	BOOLEAN	c:o		
								2.1.2.3	information	–	ANY DEFINED BY identifier	c:m		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectCreation	{2 9 3 2 10 6}		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		

Table F.7 *(continued)*

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
								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": objectDeletion	{2 9 3 2 10 7}		m				4.1	ObjectInfo		**Information Syntax** SEQUENCE	m		
								4.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								4.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								4.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								4.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								4.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		

Table F.7 *(continued)*

					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
								4.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								4.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								4.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								4.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								4.1.6.2	significance	–	BOOLEAN	c:o		
								4.1.6.3	information	–	ANY DEFINED BY identifier	c:m		
5	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": stateChange	{2 9 3 2 10 14}		m				5.1	StateChangeInfo		**Information Syntax** SEQUENCE	m		
								5.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								5.1.2	attributeIdentifierList	{2 9 3 2 7 8}	SET OF AttributeId	o		
								5.1.3	stateChangeDefinition	{2 9 3 2 7 28}	SET OF SEQUENCE	m		
								5.1.3.1	attributeID	–	AttributeId	m		
								5.1.3.2	oldAttributeValue	–	ANY DEFINED BY attributeID	o		
								5.1.3.3	newAttributeValue	–	ANY DEFINED BY attributeID	m		
								5.1.4	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		

Table F.7 *(concluded)*

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
								5.1.5	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								5.1.5.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								5.1.5.2	sourceObjectInst	–	ObjectInstance	c:o		
								5.1.6	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								5.1.7	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								5.1.7.1	identifier	–	OBJECT IDENTIFIER	c:m		
								5.1.7.2	significance	–	BOOLEAN	c:o		
								5.1.7.3	information	–	ANY DEFINED BY identifier	c:m		
c35: if F.3/9a or F.3/11a then m else –														

F.2.7 Parameter

See Table F.8.

Table F.8 – cLNS Parameter support

Index	Parameter template label	Value of object identifier for parameter	Constraints and values	Status	Support	Additional information
1	notificationPDUHeader	{2 13 0 2 5 1}	EVENT-INFO communicationsAlarm	m		
2	"ISO/IEC 10589:1992": notificationAreaAddress	{2 13 0 1 5 x}	EVENT-INFO communicationsAlarm	c8		
3	"ISO/IEC 10589:1992": notificationIDLength	{2 13 0 1 5 x}	EVENT-INFO communicationsAlarm	c8		
4	"ISO/IEC 10589:1992": notificationAreaAddress	{2 13 0 1 5 x}	EVENT-INFO communicationsAlarm	c8		
5	"ISO/IEC 10589:1992": notificationOverloadStateChange	{2 13 0 1 5 25}	EVENT-INFO communicationsAlarm	c36		
6	"ISO/IEC 10589:1992": notificationReceivingAdjacency	{2 13 0 1 5 x}	EVENT-INFO communicationsAlarm	c8		
7	"ISO/IEC 10589:1992": notificationSourceId	{2 13 0 1 5 14}	EVENT-INFO communicationsAlarm	c36		
8	"ISO/IEC 10589:1992": notificationSystemId	{2 13 0 1 5 x}	EVENT-INFO communicationsAlarm	c37		
9	"ISO/IEC 10589:1992": notificationVirtualLinkAddress	{2 13 0 1 5 16}	EVENT-INFO communicationsInformation	c25		
10	"ISO/IEC 10589:1992": notificationVirtualLinkChange	{2 13 0 1 5 15}	EVENT-INFO communicationsInformation	c25		
11	"ISO/IEC 10589:1992": constraintViolation	{2 13 0 1 5 10}	SPECIFIC-ERROR maximumAreaAddresses maximumPathSplits maximumVirtualAdjacencies originatingL1LSPBufferSize originatingL2LSPBufferSize	c38		

c36: if F.3/9a or F.3/12a then m else –
c37: if F.3/9a or F.3/10a then m else –
c38: if F.3/9a or F.3/11a or F.3/12a then m else –

F.3 The CONS managed object

F.3.1 Statement of conformance to the managed object class

See Table F.9.

Table F.9 – cONS 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	cONS	{2 13 0 2 3 24}		

If the answer to the actual class question in Table F.9 is No, the supplier of the implementation shall fill in the actual class support Table F.10.

Table F.10 – cONS 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.11.

Table F.11 – cONS 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": topPackage		Mandatory	m		
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"	c39		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c40		
4	cONS-P		Mandatory	m		
5	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": coProtocolMachineP 1		Mandatory	m		
c39: if F.11/3a then m else – c40: if F.9/1b then – else m						

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.12. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

Table F.12 – cONS 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	c41		m		m		–		–		c42		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c43		c44		–		–		–		–		
3	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": clProtocolMachineId	{2 9 3 5 7 2}	GraphicString	c45		m		x		–		–		x		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c45		m		x		–		–		x		
5	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c41		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	operationalSystemType	{2 13 0 2 7 109}	ENUMERATED	c41		m		c42		–		–		c42		
8	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c46		c47		c48		c48		c48		c48		

c41: if G.1/5a then m else x
c42: if F.9/1b then x else –
c43: if F.11/3a then (if G.1/5a then o else x) –
c44: if F.11/3a then m else –
c45: if G.1/5a then o else x
c46: if F.11/2a then (if G.1/5a then o else x) else –
c47: if F.11/2a then m else –
c48: if F.11/2a then x else –

F.3.4 Attribute group

See Table F.13.

Table F.13 – cONS 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	"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		c42		

F.3.5 Action

See Table F.14.

Table F.14 – cONS 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		

Table F.14 *(concluded)*

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
3	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": deactivateWhenNoUsers	{2 9 3 5 9 2}		m			3.1	ActionInfo	**Information Syntax** SET OF SEQUENCE	m		
							3.1.1	identifier	OBJECT IDENTIFIER	m		
							3.1.2	significance	BOOLEAN	o		
							3.1.3	information	ANY DEFINED BY identifier	m		
							3.2	ActionReply	**Reply Syntax** SET OF SEQUENCE	m		
							3.2.1	identifier	OBJECT IDENTIFIER	m		
							3.2.2	significance	BOOLEAN	o		
							3.2.3	information	ANY DEFINED BY identifier	m		

F.3.6 Notifications

See Table F.15.

Table F.15 – cONS 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": 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.15 *(continued)*

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": 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		

Table F.15 *(concluded)*

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
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": stateChange	{2 9 3 2 10 14}		m				3.1	StateChangeInfo		**Information Syntax** SEQUENCE	m		
								3.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								3.1.2	attributeIdentifierList	{2 9 3 2 7 8}	SET OF AttributeId	o		
								3.1.3	stateChangeDefinition	{2 9 3 2 7 28}	SET OF SEQUENCE	m		
								3.1.3.1	attributeID	–	AttributeId	m		
								3.1.3.2	oldAttributeValue	–	ANY DEFINED BY attributeID	o		
								3.1.3.3	newAttributeValue	–	ANY DEFINED BY attributeID	m		
								3.1.4	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								3.1.5	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								3.1.5.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								3.1.5.2	sourceObjectInst	–	ObjectInstance	c:o		
								3.1.6	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								3.1.7	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								3.1.7.1	identifier	–	OBJECT IDENTIFIER	c:m		
								3.1.7.2	significance	–	BOOLEAN	c:o		
								3.1.7.3	information	–	ANY DEFINED BY identifier	c:m		

F.4 The Recommendation D-Series counts managed object

F.4.1 Statement of conformance to the managed object class

See Table F.16.

Table F.16 – dSeriesCounts 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	dSeriesCounts	{2 13 0 2 3 32}		

If the answer to the actual class question in Table F.16 is No, the supplier of the implementation shall fill in the actual class support Table F.17.

Table F.17 – dSeriesCounts 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.18.

Table F.18 – dSeriesCounts 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": topPackage		Mandatory	m		
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"	c50		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c51		
4	dSeriesCounts-P		Mandatory	m		
c50: if F.18/3a then m else – c51: if F.16/1b then – else m						

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.19. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

Table F.19 – dSeriesCounts 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	c52		c53		–		–		–		–		
2	dSeriesId	{2 13 0 2 7 140}	GraphicString	x		m		x		–		–		x		
3	dSeriesResetRequestIndicationPackets	{2 13 0 2 7 141}	INTEGER	x		m		c54		–		–		c54		
4	dSeriesSegmentsReceived	{2 13 0 2 7 143}	INTEGER	x		m		c54		–		–		c54		
5	dSeriesSegmentsSent	{2 13 0 2 7 142}	INTEGER	x		m		c54		–		–		c54		
6	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	x		m		x		–		–		x		
7	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	x		m		x		–		–		x		
8	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c55		c56		c55		c55		c55		c55		

c52: if F.18/3a then x else –
c53: if F.18/3a then m else –
c54: if F.16/1b then x else –
c55: if F.18/2a then x else –
c56: if F.18/2a then m else –

F.4.4 Attribute groups

See Table F.20.

Table F.20 – dSeriesCounts 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}	dSeriesResetRequestIndicationPackets dSeriesSegmentsReceived dSeriesSegmentsSent	m		c54		

F.4.5 Notifications

See Table F.21.

Table F.21 – dSeriesCounts 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": 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.21 *(concluded)*

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": 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.5 The linkage managed object

F.5.1 Statement of conformance to the managed object class

See Table F.22.

Table F.22 – linkage 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	linkage	{2 13 0 2 3 23}		

If the answer to the actual class question in Table F.22 is No, the supplier of the implementation shall fill in the actual class support Table F.23.

Table F.23 – linkage 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.24.

Table F.24 – linkage 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": topPackage		Mandatory	m		
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"	c57		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c58		
4	linkage-P		Mandatory	m		
5	linkage-ISO9542IS-P	{2 13 0 2 4 22}	"support for ISO 9542 operating as an IS"	o		
6	linkage-ISO9542ES-P	{2 13 0 2 4 21}	"support for ISO 9542 operating as an ES"	o		
7	linkage-ISO9542Checksum-P	{2 13 0 2 4 17}	"support for ISO 9542 PDU Header Checksum Generation function"	o		

Table F.24 *(concluded)*

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
8	linkageInitialMinimumTimer-P	{2 13 0 2 4 7}	"support for the initial minimum timer attribute of the ISO 8473 SNDCF when operating ISO 8473 over an ISO/IEC 8208 or CO Datalink Service"	o		
9	linkageReserveTimer-P	{2 13 0 2 4 6}	"support for the reserve timer attribute of the ISO 8473 SNDCF when operating ISO 8473 over an ISO/IEC 8208 or CO Datalink Service"	o		
10	linkageIdleTimer-P	{2 13 0 2 4 5}	"support for the idle timer attribute of the ISO 8473 SNDCF when operating ISO 8473 over an ISO/IEC 8208 or CO Datalink Service"	o		
11	linkage-ISO8473-ISO8208SNDCF-P	{2 13 0 2 4 4}	"operating ISO 8473 over ISO/IEC 8208"	o		
12	linkageCODLService-P	{2 13 0 2 4 9}	"operating ISO 8473 over the CO Datalink Service"	o		
13	"ISO/IEC 10589:1992": linkageISISBasic-P	{2 13 0 1 4 6}	"the system is an ISO 10589 IS"	o		
14	"ISO/IEC 10589:1992": linkageISISAuthentication-P	{2 13 0 1 4 15}	"the authentication procedures are implemented on an ISO 10589 IS"	o		
15	"ISO/IEC 10589:1992": linkageISISBroadcast-P	{2 13 0 1 4 7}	"the linkage is a broadcast circuit on an ISO 10589 IS"	o		
16	"ISO/IEC 10589:1992": linkageISISDACallEstablishmentMetricIncrement-P	{2 13 0 1 4 9}	"the linkage is a DA Circuit and support is implemented for call establishment metric increment values greater than zero on an ISO/IEC 10589 IS"	o		
17	"ISO/IEC 10589:1992": linkageISISPtToPt-P	{2 13 0 1 4 8}	"the linkage is a point to point circuit on an ISO 10589 IS"	o		
18	"ISO/IEC 10589:1992": linkageISISStatic-P	{2 13 0 1 4 11}	"the linkage is an X.25 static circuit (IN or OUT) on an ISO 10589 IS"	o		
19	"ISO/IEC 10589:1992": linkageISISLevel2-P	{2 13 0 1 4 13}	"the system is an ISO 10589 level 2 IS"	o		
20	"ISO/IEC 10589:1992": linkageISISlevel2Broadcast-P	{2 13 0 1 4 14}	"the linkage is a broadcast circuit on an ISO 10589 level 2 IS"	o		
c57: if F.24/3a or F.24/5a or F.24/6a or F.24/7a or F.24/8a or F.24/9a or F.24/10a or F.24/11a or F.24/12a or F.24/13a or F.24/14a or F.24/15a or F.24/16a or F.24/17a or F.24/18a or F.24/19a or F.24/20a then m else – c58: if F.22/1b then – else m						

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.25. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

Table F.25 – linkage 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	activeESConfigTimer	{2 13 0 2 7 22}	SEQUENCE	c59		c60		c61		–		–		c61		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": administrativeState	{2 9 3 2 7 31}	ENUMERATED	c62		m		m		–		–		c63		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c64		c65		–		–		–		–		
4	"ISO/IEC 10589:1992": authenticationFailures	{2 13 0 1 7 117}	INTEGER	c66		c67		c68		–		–		c68		
5	"ISO/IEC 10589: 1992": callEstablishmentDefaultMetricIncrement	{2 13 0 1 7 52}	INTEGER	c69		c70		c70		–		–		c70		
6	"ISO/IEC 10589: 1992": callEstablishmentDelayMetricIncrement	{2 13 0 1 7 53}	INTEGER	c69		c70		c70		–		–		c70		
7	"ISO/IEC 10589: 1992": callEstablishmentErrorMetricIncrement	{2 13 0 1 7 55}	INTEGER	c69		c70		c70		–		–		c70		
8	"ISO/IEC 10589: 1992": callEstablishmentExpenseMetricIncrement	{2 13 0 1 7 54}	INTEGER	c69		c70		c70		–		–		c70		
9	callsFailed	{2 13 0 2 7 30}	INTEGER	c71		c72		c73		–		–		c73		
10	callsPlaced	{2 13 0 2 7 29}	INTEGER	c71		c72		c73		–		–		c73		
11	"ISO/IEC 10589: 1992": changesInAdjacencyState	{2 13 0 1 7 40}	INTEGER	c74		c75		c76		–		–		c76		
12	"ISO/IEC 10589: 1993": circuitReceivePasswords	{2 13 0 1 7 116}	SET OF OCTET STRING	c77		c67		c67		c67		c67		c67		
13	"ISO/IEC 10589: 1992": circuitTransmitPassword	{2 13 0 1 7 115}	OCTET STRING	c77		c67		c67		–		–		c67		
14	defaultESConfigTimer	{2 13 0 2 7 21}	SEQUENCE	c78		c60		c60		–		–		c60		

Table F.25 *(continued)*

				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	eSReachabilityChanges	{2 13 0 2 7 27}	INTEGER	c79		c80		c81		–		–		c81		
16	enableChecksum	{2 13 0 2 7 4}	BOOLEAN	c82		c83		c83		–		–		c83		
17	“ISO/IEC 10589:1992”: externalDomain	{2 13 0 1 7 46}	BOOLEAN	c84		c75		c75		–		–		c75		
18	holdingTimerMultiplier	{2 13 0 2 7 20}	INTEGER	c85		c86		c86		–		–		c86		
19	“ISO/IEC 10589: 1992”: iDFieldLengthMismatches	{2 13 0 1 7 25}	INTEGER	c74		c75		c76		–		–		c76		
20	iSConfigurationTimer	{2 13 0 2 7 24}	SEQUENCE	c87		c80		c80		–		–		c80		
21	“ISO/IEC 10589: 1992”: iSISControlPDUsReceived	{2 13 0 1 7 44}	INTEGER	c74		c75		c76		–		–		c76		
22	“ISO/IEC 10589: 1992”: iSISControlPDUsSent	{2 13 0 1 7 43}	INTEGER	c74		c75		c76		–		–		c76		
23	“ISO/IEC 10589: 1992”: iSISHelloTimer	{2 13 0 1 7 45}	INTEGER	c84		c75		c75		–		–		c75		
24	iSO9542OperationalSubsets	{2 13 0 2 7 115}	BIT STRING	c85		c86		c86		–		–		c88		
25	iSReachabilityChanges	{2 13 0 2 7 23}	INTEGER	c59		c60		c61		–		–		c61		
26	idleTimer	{2 13 0 2 7 31}	SEQUENCE	c89		c90		c90		–		–		c90		
27	initialMinimumTimer	{2 13 0 2 7 33}	SEQUENCE	c91		c92		c92		–		–		c92		
28	“ISO/IEC 10589: 1992”: initializationFailures	{2 13 0 1 7 41}	INTEGER	c74		c75		c76		–		–		c76		
29	invalid9542PDUs	{2 13 0 2 7 101}	INTEGER	c93		c84		c88		–		–		c88		
30	“ISO/IEC 10589: 1992”: l1CircuitID	{2 13 0 1 7 48}	OCTET STRING	c94		c95		c96		–		–		c96		
31	“ISO/IEC 10589: 1992”: l1DefaultMetric	{2 13 0 1 7 35}	INTEGER	c84		c75		c75		–		–		c75		
32	“ISO/IEC 10589: 1992”: l1DelayMetric	{2 13 0 1 7 36}	INTEGER	c84		c75		c75		–		–		c75		
33	“ISO/IEC 10589: 1992”: l1DesignatedIntermediateSystem	{2 13 0 1 7 49}	OCTET STRING	c94		c95		c96		–		–		c96		

Table F.25 *(continued)*

				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	"ISO/IEC 10589:1992": l1ErrorMetric	{2 13 0 1 7 38}	INTEGER	c84		c75		c75		–		–		c75		
35	"ISO/IEC 10589: 1992": l1ExpenseMetric	{2 13 0 1 7 37}	INTEGER	c84		c75		c75		–		–		c75		
36	"ISO/IEC 10589: 1992": l1IntermediateSystemPriority	{2 13 0 1 7 47}	INTEGER	c97		c95		c95		–		–		c95		
37	"ISO/IEC 10589: 1992": l2CircuitID	{2 13 0 1 7 74}	OCTET STRING	c98		c99		c100		–		–		c100		
38	"ISO/IEC 10589: 1992": l2DefaultMetric	{2 13 0 1 7 68}	INTEGER	c101		c102		c102		–		–		c102		
39	"ISO/IEC 10589: 1992": l2DelayMetric	{2 13 0 1 7 69}	INTEGER	c101		c102		c102		–		–		c102		
40	"ISO/IEC 10589: 1992": l2DesignatedIntermediateSystem	{2 13 0 1 7 75}	OCTET STRING	c98		c99		c100		–		–		c100		
41	"ISO/IEC 10589: 1992": l2ErrorMetric	{2 13 0 1 7 71}	INTEGER	c101		c102		c102		–		–		c102		
42	"ISO/IEC 10589: 1992": l2ExpenseMetric	{2 13 0 1 7 70}	INTEGER	c101		c102		c102		–		–		c102		
43	"ISO/IEC 10589: 1992": l2IntermediateSystemPriority	{2 13 0 1 7 73}	INTEGER	c103		c99		c99		–		–		c99		
44	"ISO/IEC 10589: 1992": lanL1DesignatedIntermediateSystemChanges	{2 13 0 1 7 50}	INTEGER	c94		c95		c96		–		–		c96		
45	"ISO/IEC 10589: 1992": lanL2DesignatedIntermediateSystemChanges	{2 13 0 1 7 76}	INTEGER	c98		c99		c100		–		–		c100		
46	linkageId	{2 13 0 2 7 17}	GraphicString	c104		m		x		–		–		x		
47	manualISSNPAAddress	{2 13 0 2 7 28}	SET OF SEQUENCE	c78		c60		c60		c60		c60		c60		
48	"ISO/IEC 10589: 1992": manualL2OnlyMode	{2 13 0 1 7 72}	BOOLEAN "ISO/IEC 10589: 1992": constraintViolation	c101		c102		c102		–		–		c102		

Table F.25 *(continued)*

				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
49	"ISO/IEC 10589: 1992": maximumAreaAddressesMismatches	{2 13 0 1 7 118}	INTEGER	c74		c75		c76		–		–		c76		
50	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c104		m		x		–		–		x		
51	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c62		m		x		–		–		x		
52	operationalProtocols	{2 13 0 2 7 111}	SET OF SEQUENCE	c62		m		c63		–		–		c63		
53	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	x		m		x		–		–		x		
54	"ISO/IEC 10589: 1992": outgoingCallIVMO	{2 13 0 1 7 120}	OCTET STRING	c105		c106		c106		–		–		c106		
55	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c107		c108		c109		c109		c109		c109		
56	"ISO/IEC 10589: 1992": ptPtCircuitID	{2 13 0 1 7 51}	OCTET STRING	c110		c111		c112		–		–		c112		
57	redirectHoldingTime	{2 13 0 2 7 26}	INTEGER	c87		c80		c80		–		–		c80		
58	"ISO/IEC 10589: 1992": rejectedAdjacencies	{2 13 0 1 7 42}	INTEGER	c74		c75		c76		–		–		c76		
59	reserveTimer	{2 13 0 2 7 32}	SEQUENCE	c113		c114		c114		–		–		c114		
60	sN-SAP	{2 13 0 2 7 18}	ObjectInstance	c115		m		c63		–		–		c63		
61	sN-ServiceProvider	{2 13 0 2 7 19}	ObjectInstance	c62		m		c63		–		–		c63		
62	suggestedESConfigurationTimer	{2 13 0 2 7 25}	SEQUENCE	c87		c80		c80		–		–		c80		
63	"ISO/IEC 10589: 1992": type	{2 13 0 1 7 33}	ENUMERATED	c84		c75		c76		–		–		c76		
64	neighbourSNPAAddress	{2 13 0 1 7 79}	SEQUENCE	c105		c106		c106		–		–		c106		

Table F.25 *(continued)*

				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
c59: if F.11/6a and [F.9/1b or (G.1/9a or G.1/11a)] then x else – c60: if F.11/6a then m else – c61: if F.11/6a and F.9/1b then x else – c62: if (G.1/10a or G.1/12a) then m else x c63: if F.9/1b then x else – c64: if F.11/3a then [if (G.1/10a or G.1/12a) then o else x] else – c65: if F.11/3a then m else – c66: if F.11/14a and [F.9/1b or (G.1/9a or G.1/11a)] then x else – c67: if F.11/14a then m else – c68: if F.11/14a and F.9/1b then x else – c69: if F.11/16a then [if (G.1/10a or G.1/12a) then m else x] else – c70: if F.11/16a then m else – c71: if (F.11/11a or F.11/12a) and [F.9/1b or (G.1/9a or G.1/11a)] then x else – c72: if (F.11/11a or F.11/12a) then m else – c73: if (F.11/11a or F.11/12a) and F.9/1b then x else – c74: if F.11/13a and [F.9/1b or (G.1/9a or G.1/11a)] then x else – c75: if F.11/13a then m else – c76: if F.11/13a and F.9/1b then x else – c77: if F.11/14a then [if (G.1/10a or G.1/12a) then m else x] else – c78: if F.11/6a then [if (G.1/10a or G.1/12a) then m else x] else – c79: if F.11/5a and [F.9/1b or (G.1/9a or G.1/11a)] then x else – c80: if F.11/5a then m else – c81: if F.11/5a and F.9/1b then x else – c82: if F.11/7a then [if (G.1/10a or G.1/12a) then m else x] else – c83: if F.11/7a then m else – c84: if F.11/13a then [if (G.1/10a or G.1/12a) then m else x] else – c85: if (F.11/5a or F.11/6a) then [if (G.1/10a or G.1/12a) then m else x] else – c86: if (F.11/5a or F.11/6a) then m else –																

Table F.25 *(concluded)*

				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
c87: if F.11/5a then [if (G.1/10a or G.1/12a) then m else x] else – c88: if (F.11/5a or F.11/6a) and F.9/1b then x else – c89: if F.11/10a then [if (G.1/10a or G.1/12a) then m else x] else – c90: if F.11/10a then m else – c91: if F.11/8a then [if (G.1/10a or G.1/12a) then m else x] else – c92: if F.11/8a then m else – c93: if (F.11/5a or F.11/6a) and [F.9/1b or (G.1/9a or G.1/11a)] then x else – c94: if F.11/15a and [F.9/1b or (G.1/9a or G.1/11a)] then x else – c95: if F.11/15a then m else – c96: if F.11/15a and F.9/1b then x else – c97: if F.11/15a then [if (G.1/10a or G.1/12a) then m else x] else – c98: if F.11/20a and [F.9/1b or (G.1/9a or G.1/11a)] then x else – c99: if F.11/20a then m else – c100: if F.11/20a and F.9/1b then x else – c101: if F.11/19a then [if (G.1/10a or G.1/12a) then m else x] else – c102: if F.11/19a then m else – c103: if F.11/20a then [if (G.1/10a or G.1/12a) then m else x] else – c104: if (G.1/10a or G.1/12a) then o else x c105: if F.11/18a then [if (G.1/10a or G.1/12a) then m else x] else – c106: if F.11/18a then m else – c107: if F.11/2a then [if (G.1/10a or G.1/12a) then o else x] else – c108: if F.11/2a then m else – c109: if F.11/2a then x else – c110: if (F.11/17a or F.11/18a) and [F.9/1b or (G.1/9a or G.1/11a)] then x else – c111: if (F.11/17a or F.11/18a) then m else – c112: if (F.11/17a or F.11/18a) and F.9/1b then x else – c113: if F.11/9a then m else – c114: if F.11/9a then [if (G.1/10a or G.1/12a) then m else x] else – c115: if F.9/1b or (G.1/9a or G.1/11a) then x else –																

F.5.4 Attribute group

See Table F.26.

Table F.26 – linkage 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}	"ISO/IEC 10589:1992": lanL2DesignatedIntermediateSystemChanges	c116		–		
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		–		
c116: if F.11/5a or F.11/6a or F.11/11a or F.11/12a or F.11/13a or F.11/14a or F.11/15a or F.11/20a then m else –								

F.5.5 Action

See Table F.27.

Table F.27 – linkage 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.5.6 Notifications

See Table F.28.

Table F.28 – linkage 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}		c117			"ISO/IEC 10589:1992": notificationSystemId	1.1	AlarmInfo		**Information Syntax** SEQUENCE	c117		
								1.1.1	probableCause	{2 9 3 2 7 18}	CHOICE	c:m		
								1.1.1.1	globalValue	–	OBJECT IDENTIFIER	c:o.1		
								1.1.1.2	localValue	–	INTEGER	c:o.1		
								1.1.2	specificProblems	{2 9 3 2 7 27}	SET OF CHOICE	c: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	c:m		
								1.1.4	backedUpStatus	{2 9 3 2 7 11}	BOOLEAN	c:o		
								1.1.5	backUpObject	{2 9 3 2 7 40}	ObjectInstance	c:o		
								1.1.6	trendIndication	{2 9 3 2 7 30}	ENUMERATED	c:o		
								1.1.7	thresholdInfo	{2 9 3 2 7 29}	SEQUENCE	c:o		
								1.1.7.1	triggeredThreshold	–	AttributeId	c:m		

Table F.28 *(continued)*

					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
								1.1.7.2	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		
								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	c:o		
								1.1.9	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	c:o		
								1.1.9.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		

Table F.28 *(continued)*

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								
								1.1.9.2	sourceObjectInst	–	ObjectInstance	c:o		
								1.1.10	stateChangeDefinition	{2 9 3 2 7 28}	SET OF SEQUENCE	c: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	c:o		
								1.1.12	proposedRepairActions	{2 9 3 2 7 19}	SET OF CHOICE	c:o		
								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	c:o		
								1.1.14	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	c: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		

Table F.28 *(continued)*

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	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsInformation	{2 9 3 5 10 0}		c118			reachabilityChange "ISO/IEC 10589:1992": notificationDesignatedIntermediateSystemChange	2.1	CommunicationsInformation		**Information Syntax** SEQUENCE	c118		
								2.1.1	informationType	{2 9 3 5 7 5}	OBJECT IDENTIFIER	c:m		
								2.1.2	informationData	{2 9 3 5 7 4}	SET OF SEQUENCE	c:o		
								2.1.2.1	identifier	–	OBJECT IDENTIFIER	c:m		
								2.1.2.2	significance	–	BOOLEAN	c:o		
								2.1.2.3	information	–	ANY DEFINED BY identifier	c:m		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectCreation	{2 9 3 2 10 6}		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		

Table F.28 *(continued)*

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								
								3.1.4	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": objectDeletion	{2 9 3 2 10 7}		m				4.1	ObjectInfo		**Information Syntax** SEQUENCE	m		
								4.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								4.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								4.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								4.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								4.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		

Table F.28 *(continued)*

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
								4.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								4.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								4.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								4.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								4.1.6.2	significance	–	BOOLEAN	c:o		
								4.1.6.3	information	–	ANY DEFINED BY identifier	c:m		
5	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": stateChange	{2 9 3 2 10 14}		m				5.1	StateChangeInfo		**Information Syntax** SEQUENCE	m		
								5.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								5.1.2	attributeIdentifierList	{2 9 3 2 7 8}	SET OF AttributeId	o		
								5.1.3	stateChangeDefinition	{2 9 3 2 7 28}	SET OF SEQUENCE	m		
								5.1.3.1	attributeID	–	AttributeId	m		
								5.1.3.2	oldAttributeValue	–	ANY DEFINED BY attributeID	o		
								5.1.3.3	newAttributeValue	–	ANY DEFINED BY attributeID	m		
								5.1.4	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								5.1.5	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		

Table F.28 *(concluded)*

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
								5.1.5.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								5.1.5.2	sourceObjectInst	–	ObjectInstance	c:o		
								5.1.6	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								5.1.7	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								5.1.7.1	identifier	–	OBJECT IDENTIFIER	c:m		
								5.1.7.2	significance	–	BOOLEAN	c:o		
								5.1.7.3	information	–	ANY DEFINED BY identifier	c:m		

c117: if F.24/5a or F.24/6a or F.24/13a or F.24/14a then m else –
c118: if F.24/5a or F.24/6a or F.24/15a then m else –

F.5.7 Parameters

See Table F.29 .

Table F.29 – linkage Parameter support

Index	Parameter template label	Value of object identifier for parameter	Constraints and values	Status	Support	Additional information
1	"ISO/IEC 10589:1992": notificationSystemId	{2 13 0 1 5 19}	EVENT-INFO communicationsAlarm	c117		
2	reachabilityChange	{2 13 0 2 5 12}	EVENT-INFO communicationsInformation	c118		
3	"ISO/IEC 10589:1992": notificationDesignatedIntermediateSystemChange	{2 13 0 1 5 24}	EVENT-INFO communicationsInformation	c118		
4	"ISO/IEC 10589:1992": constraintViolation	{2 13 0 1 5 10}	SPECIFIC-ERROR neighbourSNPAAddress	c106		
5	"ISO/IEC 10589:1992": constraintViolation	{2 13 0 1 5 10}	SPECIFIC-ERROR manualL2OnlyMode	c102		

F.6 The NSAP managed object

F.6.1 Statement of conformance to the managed object class

See Table F.30.

Table F.30 –nSAP 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	nSAP	{2 13 0 2 3 4}		

If the answer to the actual class question in Table F.30 is No, the supplier of the implementation shall fill in the actual class support Table F.31.

Table F.31 – nSAP 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.32.

Table F.32 –nSAP 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": topPackage		Mandatory	m		
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"	c119		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c120		
4	nSAP-P		Mandatory	m		
5	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": sap2P1		Mandatory	m		
c119: if F.32/3a then m else – c120: if F.30/1b then – else m						

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.33. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

Table F.33 – nSAP 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	c121		c122		–		–		–		–		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c123		m		x		–		–		x		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c124		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	c125		c126		c127		c127		c127		c127		
5	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": providerEntityNames	{2 9 3 5 7 7}	SET OF ObjectInstance	c128		m		c129		–		–		c129		
6	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": sap2Address	{2 9 3 5 7 9}	SET OF OCTET STRING	c124		m		c129		c129		c129		c129		
7	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": sapId	{2 9 3 5 7 10}	GraphicString	c123		m		x		–		–		x		
8	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": userEntityNames	{2 9 3 5 7 15}	SET OF ObjectInstance	c128		m		c129		–		–		c129		

c121: if F.32/3a then (if G.1/14a then o else x) else –
c122: if F.32/3a then m else –
c123: if G.1/14a then o else x
c124: if G.1/14a then m else x
c125: if F.32/2a (if G.1/14a then o else x) else –
c126: if F.32/2a then m else –
c127: if F.32/2a then x else –
c128: if F.30/1b or (G.1/13a or G.1/15a) then x else –
c129: if F.30/1b then x else –

F.6.4 Notifications

See Table F.34.

Table F.34 – nSAP 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": 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.34 *(concluded)*

					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 network connection managed object

F.7.1 Statement of conformance to the managed object class

See Table F.35.

Table F.35 – networkConnection 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	networkConnection	{2 13 0 2 3 13}		

If the answer to the actual class question in Table F.35 is No, the supplier of the implementation shall fill in the actual class support Table F.36.

Table F.36 – networkConnection 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.37.

Table F.37 – networkConnection 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": topPackage		Mandatory	m		
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"	c130		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c131		
4	networkConnection-P		Mandatory	m		
5	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": singlePeerConnectionP1		Mandatory	m		
6	"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		

c130: if F.37/3a or F.37/6a then m else –
c131: f F.35/1b then – else m

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.38. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

Table F.38 – networkConnection 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	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": connectionId	{2 9 3 5 7 1}	GraphicString	x		m		x		–		–		x		
3	localNSAPMO	{2 13 0 2 7 106}	ObjectInstance	x		m		c134		–		–		c134		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	x		m		x		–		–		x		
5	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	x		m		x		–		–		x		
6	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c135		c136		c135		c135		c135		c135		
7	remoteNSAPAddress	{2 13 0 2 7 107}	OCTET STRING	x		m		c134		–		–		c134		
8	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": supportedConnectionNames	{2 9 3 5 7 12}	SET OF ObjectInstance	c137		c138		c139		c139		c139		c139		
9	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": underlyingConnectionNames	{2 9 3 5 7 14}	SET OF ObjectInstance	x		m		c134		c134		c134		c134		

c132: if F.37/3a then x else –
c133: if F.37/3a then m else –
c134: if F.35/1b then x else –
c135: if F.37/2a then x else –
c136: if F.37/2a then m else –
c137: if F.37/6a then x else –
c138: if F.37/6a then m else –
c139: if F.37/6a and F.35/1b then x else –

F.7.4 Action

See Table F.39.

Table F.39 – networkConnection 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": deactivate	{2 9 3 5 9 1}		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	OBJECT0 IDENTIFIER	m		
							1.2.2	significance	BOOLEAN	o		
							1.2.3	information	ANY DEFINED BY identifier	m		

F.7.5 Notifications

See Table F.40.

Table F.40 – networkConnection 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	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsInformation	{2 9 3 5 10 0}		m				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.40 *(concluded)*

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
								2.1.5	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		

F.8 The network entity managed object

F.8.1 Statement of conformance to the managed object class

See Table F.41.

Table F.41 – networkEntity 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	networkEntity	{2 13 0 2 3 22}		

If the answer to the actual class question in Table F.41 is No, the supplier of the implementation shall fill in the actual class support Table F.42.

Table F.42 – networkEntity 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.43.

Table F.43 – networkEntity 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": topPackage		Mandatory	m		
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"	c140		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c141		
4	networkEntity-P		Mandatory	m		
5	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsEn-tityP1		Mandatory	m		
c140: if F.43/3a then m else – c141: if F.41/1b then – else m						

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.44. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

Table F.44 – networkEntity 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	c142		c143		–		–		–		–		
2	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsEntityId	{2 9 3 5 7 0}	GraphicString	c144		m		x		–		–		x		
3	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": localSapNames	{2 9 3 5 7 6}	SET OF ObjectInstance	c145		m		c146		c146		c146		c146		
4	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c144		m		x		–		–		x		
8	networkEntityTitles	{2 13 0 2 7 3}	SET OF OCTET STRING	c147		m		m		m		m		c146		
5	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c147		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	c148		c149		c150		c150		c150		c150		
8	systemType	{2 13 0 2 7 108}	SET OF ENUMERATED	c145		m		c146		–		–		c146		

c142: if F.43/3a then (if G.1/19a then o else x) else –
c143: if F.43/3a then m else –
c144: if G.1/19a then o else x
c145: if F.41/1b or (G.1/18a or G.1/20a) then x else –
c146: if F.41/1b then x else –
c147: if G.1/19a then m else x
c148: if F.43/2a then (if G.1/19a then o else x) else –
c149: if F.43/2a then m else –
c150: if F.43/2a then x else –

F.8.4 Notification

See Table F.45.

Table F.45 – networkEntity 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": 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.45 *(concluded)*

					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.9 The network subsystem managed object

F.9.1 Statement of conformance to the managed object class

See Table F.46.

Table F.46 – networkSubsystem 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	networkSubsystem	{2 13 0 2 3 1}		

If the answer to the actual class question in Table F.46 is No, the supplier of the implementation shall fill in the actual class support Table F.47.

Table F.47 – networkSubsystem 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.48.

Table F.48 – networkSubsystem 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": topPackage		Mandatory	m		
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"	c151		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c152		
4	networkSubsystem-P		Mandatory	m		
5	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": subsystemP1		Mandatory	m		
c151: if F.48/3a then m else – c152: if F.46/1b then – else m						

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.49. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

Table F.49 – networkSubsystem 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	c153		c154		–		–		–		–		
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	c155		c156		c155		c155		c155		c155		
5	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": subsystemId	{2 9 3 5 7 11}	GraphicString	x		m		x		–		–		x		

c153: if F.48/3a then x else –
c154: if F.48/3a then m else –
c155: if F.48/2a then x else –
c156: if F.48/2a then m else –

F.10 The permanent virtual circuit-DCE managed object

F.10.1 Statement of conformance to the managed object class

See Table F.50.

Table F.50 – permanentVirtualCircuit-DCE 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	permanentVirtualCircuit-DCE	{2 13 0 2 3 30}		

If the answer to the actual class question in Table F.50 is No, the supplier of the implementation shall fill in the actual class support Table F.51.

Table F.51 – permanentVirtualCircuit-DCE 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.52.

Table F.52 – permanentVirtualCircuit-DCE 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": topPackage		Mandatory	m		
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"	c156		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c157		
4	permanentVirtualCircuit-DCE-P		Mandatory	m		
5	dCECommonVirtualCircuitCounters-P	{2 13 0 2 4 23}	"the instance supports the dCECommonVirtualCircuitCounters capabilities"	o		
6	virtualCircuit-P		Mandatory	m		
c156: if F.52/3a or F.52/5a then m else – c157: if F.50/1b then – else m						

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.53. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

Table F.53 – permanentVirtualCircuit-DCE 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	c158		c159		–		–		–		–		
2	chargingDirection	{2 13 0 2 7 131}	BOOLEAN	c160		m		c160		–		–		c160		
3	dataPacketsReceived	{2 13 0 2 7 51}	INTEGER	c161		c162		c161		–		–		c161		
4	dataPacketsSent	{2 13 0 2 7 50}	INTEGER	c161		c162		c161		–		–		c161		
5	interruptPacketsReceived	{2 13 0 2 7 68}	INTEGER	c161		c162		c161		–		–		c161		
6	interruptPacketsSent	{2 13 0 2 7 67}	INTEGER	c161		c162		c161		–		–		c161		
7	interruptTimerExpiries	{2 13 0 2 7 69}	INTEGER	c161		c162		c161		–		–		c161		
8	logicalChannel	{2 13 0 2 7 89}	INTEGER	m		m		c160		–		–		c160		
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	"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": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	c161		c162		c161		–		–		c161		
12	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	c161		c162		c161		–		–		c161		
13	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	x		m		x		–		–		x		
14	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c163		c164		c165		c165		c165		c165		

Table F.53 *(concluded)*

				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	packetSizes	{2 13 0 2 7 121}	SEQUENCE	m		m		c160		–		–		c160		
16	providerInitiatedDisconnects	{2 13 0 2 7 54}	INTEGER	c161		c162		c161		–		–		c161		
17	providerInitiatedResets	{2 13 0 2 7 59}	INTEGER	c161		c162		c161		–		–		c161		
18	remoteDTEAddress	{2 13 0 2 7 93}	SEQUENCE	c160		m		c160		–		–		c160		
19	remoteLogicalChannel	{2 13 0 2 7 162}	INTEGER	c160		m		c160		–		–		c160		
20	remotelyInitiatedResets	{2 13 0 2 7 57}	INTEGER	c161		c162		c161		–		–		c161		
21	remotelyInitiatedRestarts	{2 13 0 2 7 61}	INTEGER	c161		c162		c161		–		–		c161		
22	resetTimeouts	{2 13 0 2 7 60}	INTEGER	c161		c162		c161		–		–		c161		
23	throughputClasses	{2 13 0 2 7 96}	SEQUENCE	m		m		c160		–		–		c160		
24	virtualCircuitId	{2 13 0 2 7 116}	GraphicString	o		m		x		–		–		x		
25	windowSizes	{2 13 0 2 7 124}	SEQUENCE	m		m		c160		–		–		c160		
26	x25SegmentsReceived	{2 13 0 2 7 171}	INTEGER	c161		c162		c161		–		–		c161		
27	x25SegmentsSent	{2 13 0 2 7 170}	INTEGER	c161		c162		c161		–		–		c161		

c158: if F.52/3a then o else –
c159: if F.52/3a then m else –
c160: if F.50/1b then x else –
c161: if F52/5a and F.50/1b then x else –
c162: if F.52/5a then m else –
c163: if F.52/2a then o else –
c164: if F.52/2a then m else –
c165: if F.52/2a then x else –

F.10.4 Attribute Groups

See Table F.54.

Table F.54 – permanentVirtualCircuit-DCE 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}	dataPacketsReceived dataPacketsSent interruptPacketsReceived interruptPacketsSent interruptTimerExpiries "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter providerInitiatedDisconnects providerInitiatedResets remotelyInitiatedResets remotelyInitiatedRestart resetTimeouts x25SegmentsReceived x25SegmentsSent	c162		–		
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": operationalState	m		–		

F.10.5 Notifications

See Table F.55.

Table F.55 – permanentVirtualCircuit-DCE 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": 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.55 *(continued)*

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": 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		

Table F.55 *(concluded)*

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": stateChange	{2 9 3 2 10 14}		m				3.1	StateChangeInfo		**Information Syntax** SEQUENCE	m		
								3.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								3.1.2	attributeIdentifierList	{2 9 3 2 7 8}	SET OF AttributeId	o		
								3.1.3	stateChangeDefinition	{2 9 3 2 7 28}	SET OF SEQUENCE	m		
								3.1.3.1	attributeID	–	AttributeId	m		
								3.1.3.2	oldAttributeValue	–	ANY DEFINED BY attributeID	o		
								3.1.3.3	newAttributeValue	–	ANY DEFINED BY attributeID	m		
								3.1.4	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								3.1.5	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								3.1.5.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								3.1.5.2	sourceObjectInst	–	ObjectInstance	c:o		
								3.1.6	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								3.1.7	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								3.1.7.1	identifier	–	OBJECT IDENTIFIER	c:m		
								3.1.7.2	significance	–	BOOLEAN	c:o		
								3.1.7.3	information	–	ANY DEFINED BY identifier	c:m		

F.11 The permanent virtual circuit-DTE managed object

F.11.1 Statement of conformance to the managed object class

See Table F.56.

Table F.56 – permanentVirtualCircuit-DTE 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	permanentVirtualCircuit-DTE	{2 13 0 2 3 19}		

If the answer to the actual class question in Table F.56 is No, the supplier of the implementation shall fill in the actual class support Table F.57.

Table F.57 – permanentVirtualCircuit-DTE 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.58.

Table F.58 – permanentVirtualCircuit-DTE 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": topPackage		Mandatory	m		
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"	c166		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	cc167		
4	permanentVirtualCircuit-DTE-P		Mandatory	m		
5	dTEVirtualCircuitCounters-P	{2 13 0 2 4 19}	"the instance supports the dTEVirtualCircuitCounters capabilities"	o		
6	virtualCircuit-P		Mandatory	m		
c166: if F.58/3a or F.58/5a then m else – c167: if F56/1b then – else m						

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.59. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

Table F.59 – permanentVirtualCircuit-DTE 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	c168		c169		–		–		–		–		
2	dataPacketsReceived	{2 13 0 2 7 51}	INTEGER	c170		c171		c170		–		–		c170		
3	dataPacketsSent	{2 13 0 2 7 50}	INTEGER	c170		c171		c170		–		–		c170		
4	dataRetransmissionTimerExpiries	{2 13 0 2 7 58}	INTEGER	c170		c171		c170		–		–		c170		
5	interruptPacketsReceived	{2 13 0 2 7 68}	INTEGER	c170		c171		c170		–		–		c170		
6	interruptPacketsSent	{2 13 0 2 7 67}	INTEGER	c170		c171		c170		–		–		c170		
7	interruptTimerExpiries	{2 13 0 2 7 69}	INTEGER	c170		c171		c170		–		–		c170		
8	logicalChannel	{2 13 0 2 7 89}	INTEGER	m		m		c172		–		–		c172		
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	"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": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	c170		c171		c170		–		–		c170		
12	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	c170		c171		c170		–		–		c170		
13	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c173		c174		c175		c175		c175		c175		

Table F.59 *(concluded)*

				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
14	packetSizes	{2 13 0 2 7 121}	SEQUENCE	m		m		c172		–		–		c172		
15	providerInitiatedResets	{2 13 0 2 7 59}	INTEGER	c170		c171		c170		–		–		c170		
16	remotelyInitiatedResets	{2 13 0 2 7 57}	INTEGER	c170		c171		c170		–		–		c170		
17	resetTimeouts	{2 13 0 2 7 60}	INTEGER	c170		c171		c170		–		–		c170		
18	throughputClasses	{2 13 0 2 7 96}	SEQUENCE	m		m		c172		–		–		c172		
19	virtualCircuitId	{2 13 0 2 7 116}	GraphicString	o		m		x		–		–		x		
20	windowSizes	{2 13 0 2 7 124}	SEQUENCE	m		m		c172		–		–		c172		

c168: if F.58/3a then o else –
c169: if F.58/3a then m else –
c170: if F.58/5a and F.56/1b then x else –
c171: if F.58/5a then m else –
c172: if F.56/1b then x else –
c173: if F.58/2a then o else –
c174: if F.58/2a then m else –
c175: if F.58/2a then x else –

F.11.4 Attribute Groups

See Table F.60.

Table F.60 – permanentVirtualCircuit-DTE 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}	dataPacketsReceived dataPacketsSent dataRetransmissionTimerExpiries interruptPacketsReceived interruptPacketsSent interruptTimerExpiries "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter providerInitiatedResets remotelyInitiatedResets resetTimeouts	c171		–		

F.11.5 Notifications

See Table F.61.

Table F.61 – permanentVirtualCircuit-DTE 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": 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.61 *(concluded)*

					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.12 The virtual call DCE managed object

F.12.1 Statement of conformance to the managed object class

See Table F.62.

Table F.62 – virtualCall-DCE 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	virtualCall-DCE	{2 13 0 2 3 31}		

If the answer to the actual class question in Table F.62 is No, the supplier of the implementation shall fill in the actual class support Table F.63.

Table F.63 – virtualCall-DCE 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.64.

Table F.64 – virtualCall-DCE 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": topPackage		Mandatory	m		
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"	c176		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c177		
4	virtualCall-DCE-P		Mandatory	m		
5	virtualCircuit-P		Mandatory	m		
6	dCECommonVirtualCircuitCounters-P	{2 13 0 2 4 23}	"the instance supports the dCECommonVirtualCircuitCounters capabilities"	o		
7	dCEVirtualCallFacilities-P	{2 13 0 2 4 24}	"the instance supports the dCEVirtualCallFacilities capabilities"	o		
c176: if F.64/3a or F.64/6a or F.64/7a then m else – c177: if F.621b then – else m						

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.65. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

Table F.65 – virtualCall-DCE 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	c178		c179		–		–		–		–		
2	bilateralCUGSelection	{2 13 0 2 7 126}	BOOLEAN	c180		c181		c182		–		–		c182		
3	cUGSelection	{2 13 0 2 7 135}	BOOLEAN	c183		m		c184		–		–		c184		
4	cUGWithOutgoingAccessSelection	{2 13 0 2 7 138}	BOOLEAN	c180		c181		c182		–		–		c182		
5	callRedirectionDeflectionNotification	{2 13 0 2 7 130}	BOOLEAN	c180		c181		c182		–		–		c182		
6	calledLineAddressModifiedNotification	{2 13 0 2 7 128}	BOOLEAN	c180		c181		c182		–		–		c182		
7	chargingDirection	{2 13 0 2 7 131}	BOOLEAN	c183		m		c184		–		–		c184		
8	dataPacketsReceived	{2 13 0 2 7 51}	INTEGER	c185		c186		c187		–		–		c187		
9	dataPacketsSent	{2 13 0 2 7 50}	INTEGER	c185		c186		c187		–		–		c187		
10	direction	{2 13 0 2 7 92}	ENUMERATED	c183		m		c184		–		–		c184		
11	fastSelect	{2 13 0 2 7 76}	ENUMERATED	c183		m		c184		–		–		c184		
12	interruptPacketsReceived	{2 13 0 2 7 68}	INTEGER	c185		c186		c187		–		–		c187		
13	interruptPacketsSent	{2 13 0 2 7 67}	INTEGER	c185		c186		c187		–		–		c187		
14	interruptTimerExpiries	{2 13 0 2 7 69}	INTEGER	c185		c186		c187		–		–		c187		
15	logicalChannel	{2 13 0 2 7 89}	INTEGER	c183		m		c184		–		–		c184		
16	nUISelection	{2 13 0 2 7 155}	BOOLEAN	c180		c181		c182		–		–		c182		
17	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c188		m		x		–		–		x		
18	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c189		m		x		–		–		x		
19	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	c185		c186		c187		–		–		c187		
20	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	c185		c186		c187		–		–		c187		

Table F.65 *(concluded)*

				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
21	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c190		c191		c192		c192		c192		c192		
22	packetSizes	{2 13 0 2 7 121}	SEQUENCE	c183		m		c184		–		–		c184		
23	providerInitiatedDisconnects	{2 13 0 2 7 54}	INTEGER	c185		c186		c187		–		–		c187		
24	providerInitiatedResets	{2 13 0 2 7 59}	INTEGER	c185		c186		c187		–		–		c187		
25	rOASelection	{2 13 0 2 7 166}	BOOLEAN	c180		c181		c182		–		–		c182		
26	remoteDTEAddress	{2 13 0 2 7 93}	SEQUENCE	c183		m		c184		–		–		c184		
27	remotelyInitiatedResets	{2 13 0 2 7 57}	INTEGER	c185		c186		c187		–		–		c187		
28	remotelyInitiatedRestarts	{2 13 0 2 7 61}	INTEGER	c185		c186		c187		–		–		c187		
29	resetTimeouts	{2 13 0 2 7 60}	INTEGER	c185		c186		c187		–		–		c187		
30	reverseCharging	{2 13 0 2 7 75}	BOOLEAN	c180		c181		c182		–		–		c182		
31	throughputClasses	{2 13 0 2 7 96}	SEQUENCE	c183		m		c184		–		–		c184		
32	transitDelaySelectionAndIndication	{2 13 0 2 7 169}	BOOLEAN	c183		m		c184		–		–		c184		
33	virtualCircuitId	{2 13 0 2 7 116}	GraphicString	c188		m		x		–		–		x		
34	windowSizes	{2 13 0 2 7 124}	SEQUENCE	c183		m		c184		–		–		c184		
35	x25SegmentsReceived	{2 13 0 2 7 171}	INTEGER	c185		c186		c187		–		–		c187		
36	x25SegmentsSent	{2 13 0 2 7 170}	INTEGER	c185		c186		c187		–		–		c187		

c178: if F.64/3a then (if G.1/26a then o else x) else –
c179: if F.64/3a then m else –
c180: if F.64/7a and [F.62/1b or (G.1/25a)] then x else –
c181: if F.64/7a then m else –
c182: if F.64/7a and F.62/1b then x else –
c183: if F.62/1b or (G.1/25a) then x else –
c184: if F.62/1b then x else –
c185: if F.64/6a and [F.62/1b or (G.1/25a)] then x else –
c186: if F.64/6a then m else –
c187: if F.64/6a and F.62/1b then x else –
c188: if G.1/26a then o else x
c189: if G.1/26a then m else x
c190: if F.64/2a then (if G.1/26a then o else x) else –
c191: if F.64/2a then m else –
c192: if F.64/2a then x else –

F.12.4 Attribute Groups

See Table F.66.

Table F.66 – virtualCall-DCE 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}	dataPacketsReceived dataPacketsSent interruptPacketsReceived interruptPacketsSent interruptTimerExpiries "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter providerInitiatedDisconnects providerInitiatedResets remotelyInitiatedResets remotelyInitiatedRestarts resetTimeouts x25SegmentsReceived x25SegmentsSent	c186		c187		

F.12.5 Actions

See Table F.67.

Table F.67 – virtualCall-DCE 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": deactivate	{2 9 3 5 9 1}		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		

F.12.6 Notifications

See Table F.68.

Table F.68 – virtualCall-DCE 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	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsIn-formation	{2 9 3 5 10 0}		m				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.68 *(concluded)*

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
								2.1.5	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		

F.13 The virtual call-DTE managed object

F.13.1 Statement of conformance to the managed object class

See Table F.69.

Table F.69 – virtualCall-DTE 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	virtualCall-DTE	{2 13 0 2 3 16}		

If the answer to the actual class question in Table F.69 is No, the supplier of the implementation shall fill in the actual class support Table F.70.

Table F.70 – virtualCall-DTE 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.13.2 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.71.

Table F.71 – virtualCall-DTE 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": topPackage		Mandatory	m		
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"	c193		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c194		
4	virtualCall-DTE-P		Mandatory	m		
5	virtualCircuit-P		Mandatory	m		
6	dTEVirtualCircuitCounters-P	{2 13 0 2 4 19}	"the instance supports the dTEVirtualCircuitCounters capabilities"	o		
c193: if F.71/3a or F.71/6a then m else – c194: if F.69/1b then – else m						

F.13.3 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.72. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

Table F.72 – virtualCall-DTE 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	c195		c196		–		–		–		–		
2	calledAddressExtension	{2 13 0 2 7 100}	OCTET STRING	x		m		c197		–		–		c197		
3	callingAddressExtension	{2 13 0 2 7 99}	OCTET STRING	x		m		c197		–		–		c197		
4	dataPacketsReceived	{2 13 0 2 7 51}	INTEGER	c198		c199		c200		–		–		c200		
5	dataPacketsSent	{2 13 0 2 7 50}	INTEGER	c198		c199		c200		–		–		c200		
6	dataRetransmissionTimerExpiries	{2 13 0 2 7 58}	INTEGER	c198		c199		c200		–		–		c200		
7	direction	{2 13 0 2 7 92}	ENUMERATED	x		m		c197		–		–		c197		
8	fastSelect	{2 13 0 2 7 76}	ENUMERATED	x		m		c197		–		–		c197		
9	interruptPacketsReceived	{2 13 0 2 7 68}	INTEGER	c198		c199		c200		–		–		c200		
10	interruptPacketsSent	{2 13 0 2 7 67}	INTEGER	c198		c199		c200		–		–		c200		
11	interruptTimerExpiries	{2 13 0 2 7 69}	INTEGER	c198		c199		c200		–		–		c200		
12	logicalChannel	{2 13 0 2 7 89}	INTEGER	x		m		c197		–		–		c197		
13	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	x		m		x		–		–		x		
14	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	x		m		x		–		–		x		
15	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	c198		c199		c200		–		–		c200		

Table F.72 *(concluded)*

				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
16	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	c198		c199		c200		–		–		c200		
17	originallyCalledAddress	{2 13 0 2 7 98}	SEQUENCE	x		m		c197		–		–		c197		
18	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c201		c202		c201		c201		c201		c201		
19	packetSizes	{2 13 0 2 7 121}	SEQUENCE	x		m		c197		–		–		c197		
20	providerInitiatedResets	{2 13 0 2 7 59}	INTEGER	c198		c199		c200		–		–		c200		
21	redirectReason	{2 13 0 2 7 97}	INTEGER	x		m		c197		–		–		c197		
22	remoteDTEAddress	{2 13 0 2 7 93}	SEQUENCE	x		m		c197		–		–		c197		
23	remotelyInitiatedResets	{2 13 0 2 7 57}	INTEGER	c198		c199		c200		–		–		c200		
24	resetTimeouts	{2 13 0 2 7 60}	INTEGER	c198		c199		c200		–		–		c200		
25	reverseCharging	{2 13 0 2 7 75}	BOOLEAN	x		m		c197		–		–		c197		
26	throughputClasses	{2 13 0 2 7 96}	SEQUENCE	x		m		c197		–		–		c197		
27	virtualCircuitId	{2 13 0 2 7 116}	GraphicString	x		m		x		–		–		x		
28	windowSizes	{2 13 0 2 7 124}	SEQUENCE	x		m		c197		–		–		c197		

c195: if F.71/3a then x else –
c196: if F.71/3a then m else –
c197: if F.69/1b then x else –
c198: if F.71/6a then x else –
c199: if F.71/6a then m else –
c200: if F.71/6a and F.69/1b then x else –
c201: if F.71/2a then x else –
c202: if F.71/2a then m else –

F.13.4 Attribute Groups

See Table F.73.

Table F.73 – virtualCall-DTE 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}	dataPacketsReceived dataPacketsSent dataRetransmissionTimerExpiries interruptPacketsReceived interruptPacketsSent interruptTimerExpiries "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter providerInitiatedResets remotelyInitiatedResets resetTimeouts	c199		–		

F.13.5 Actions

See Table F.74.

Table F.74 – virtualCall-DTE 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": deactivate	{2 9 3 5 9 1}		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		

F.13.6 Notifications

See Table F.75.

Table F.75 – virtualCall-DTE 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	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsInformation	{2 9 3 5 10 0}		m				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.75 *(concluded)*

					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		

F.14 The virtual call initial values managed object

F.14.1 Statement of conformance to the managed object class

See Table F.76.

Table F.76 – virtualCallIVMO 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	virtualCallIVMO	{2 13 0 2 3 15}		

If the answer to the actual class question in Table F.76 is No, the supplier of the implementation shall fill in the actual class support Table F.77.

Table F.77 – virtualCallIVMO 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.14.2 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.78.

Table F.78 – virtualCallIVMO 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": topPackage		Mandatory	m		
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"	c203		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c204		
4	virtualCallIVMO–P		Mandatory	m		
c203: if F.78/3a then m else – c204: if F.76/1b then – else m						

F.14.3 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.79. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

Table F.79 – virtualCallIVMO 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	c205		c206		–		–		–		–		
2	fastSelect	{2 13 0 2 7 76}	ENUMERATED	m		m		m		–		–		c207		
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	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	m		m		x		–		–		x		
5	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c208		c209		c210		c210		c210		c210		
6	packetSizes	{2 13 0 2 7 121}	SEQUENCE	m		m		m		–		–		c207		
7	reverseCharging	{2 13 0 2 7 75}	BOOLEAN	m		m		m		–		–		c207		
8	throughputClasses	{2 13 0 2 7 96}	SEQUENCE	m		m		m		–		–		c207		
9	virtualCallIVMOId	{2 13 0 2 7 117}	GraphicString	o		m		x		–		–		x		
10	windowSizes	{2 13 0 2 7 124}	SEQUENCE	m		m		m		–		–		c207		

c205: if F.78/3a then o else –
c206: if F.78/3a then m else –
c207: if F.76/1b then x else –
c208: if F.78/2a then o else –
c209: if F.78/2a then m else –
c210: if F.78/2a then x else –

F.14.4 Notifications

See Table F.80.

Table F.80 – virtualCallIVMO 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": 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.80 *(concluded)*

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": 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.15 The X25 PLE DCE managed object

F.15.1 Statement of conformance to the managed object class

See Table F.81.

Table F.81 – x25PLE-DCE 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	x25PLE-DCE	{2 13 0 2 3 27}		

If the answer to the actual class question in Table F.81 is No, the supplier of the implementation shall fill in the actual class support Table F.82.

Table F.82 – x25PLE-DCE 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.15.2 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.83.

Table F.83 – x25PLE-DCE 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": topPackage		Mandatory	m		
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"	c211		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c212		
4	x25PLE-DCE-P		Mandatory	m		
5	x25PLE-P		Mandatory	m		
6	dCECommonVirtualCircuitCounters-P	{2 13 0 2 4 23}	"the instance supports the dCECommon VirtualCircuitCounters capabilities"	o		
7	dCEX25PLEFacilities-P	{2 13 0 2 4 26}	"the instance supports the dCEX25PLEFacilities capabilities"	o		
8	dCEX25PLETimers-P	{2 13 0 2 4 25}	"the instance supports the dCEX25PLETimers capabilities"	o		
c211: if F.83/3a or F.83/6a or F.83/7a or F.83/8a then m else – c212: if F.81/1b then – else m						

F.15.3 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.84. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

Table F.84 – x25PLE-DCE 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	c213		m		m		–		–		c214		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c215		c216		–		–		–		–		
3	bilateralCUG	{2 13 0 2 7 125}	BOOLEAN	c217		c218		c218		–		–		c218		
4	bilateralCUGWithOutgoingAccess	{2 13 0 2 7 127}	BOOLEAN	c217		c218		c218		–		–		c218		
5	cUG	{2 13 0 2 7 134}	BOOLEAN	c213		m		m		–		–		m		
6	cUGWithIncomingAccess	{2 13 0 2 7 136}	BOOLEAN	c217		c218		c218		–		–		c218		
7	cUGWithOutgoingAccess	{2 13 0 2 7 137}	BOOLEAN	c217		c218		c218		–		–		c218		
8	callAttempts	{2 13 0 2 7 52}	INTEGER	c219		m		c214		–		–		c214		
9	callDeflectionSubscription	{2 13 0 2 7 114}	BOOLEAN	c217		c218		c218		–		–		c218		
10	callRedirection	{2 13 0 2 7 129}	BOOLEAN	c217		c218		c218		–		–		c218		
11	callsConnected	{2 13 0 2 7 53}	INTEGER	c219		m		c214		–		–		c214		
12	chargingInformation	{2 13 0 2 7 132}	BOOLEAN	c217		c218		c218		–		–		c218		
13	clearIndication	{2 13 0 2 7 133}	INTEGER	c220		c221		c221		–		–		c222		
14	dBitModification	{2 13 0 2 7 139}	BOOLEAN	c217		c218		c218		–		–		c218		
15	dataPacketsReceived	{2 13 0 2 7 51}	INTEGER	c223		c224		c225		–		–		c225		
16	dataPacketsSent	{2 13 0 2 7 50}	INTEGER	c223		c224		c225		–		–		c225		
17	defaultPacketSizes	{2 13 0 2 7 103}	SEQUENCE	c213		m		m		–		–		m		
18	defaultThroughputClasses	{2 13 0 2 7 112}	SEQUENCE	c213		m		m		–		–		m		
19	defaultThroughputClassesAssignment	{2 13 0 2 7 144}	SEQUENCE	c217		c218		c218		–		–		c218		
20	defaultWindowSizes	{2 13 0 2 7 104}	SEQUENCE	c213		m		m		–		–		m		
21	extendedPacketSequenceNumbering	{2 13 0 2 7 49}	INTEGER	c217		c218		c218		–		–		c218		
22	fastSelectAcceptance	{2 13 0 2 7 145}	BOOLEAN	c213		m		m		–		–		m		
23	flowControlParameterNegotiation	{2 13 0 2 7 119}	BOOLEAN	c213		m		m		–		–		m		
24	huntGroup	{2 13 0 2 7 146}	BOOLEAN	c217		c218		c218		–		–		c218		
25	incomingCall	{2 13 0 2 7 147}	INTEGER	c220		c221		c221		–		–		c222		
26	incomingCallBarredWithinCUG	{2 13 0 2 7 149}	BOOLEAN	c217		c218		c218		–		–		c218		
27	incomingCallsBarred	{2 13 0 2 7 148}	BOOLEAN	c213		m		m		–		–		m		

Table F.84 *(continued)*

				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
28	interruptPacketsReceived	{2 13 0 2 7 68}	INTEGER	c223		c224		c225		–		–		c225		
29	interruptPacketsSent	{2 13 0 2 7 67}	INTEGER	c223		c224		c225		–		–		c225		
30	interruptTimerExpiries	{2 13 0 2 7 69}	INTEGER	c223		c224		c225		–		–		c225		
31	localChargingPrevention	{2 13 0 2 7 150}	BOOLEAN	c217		c218		c218		–		–		c218		
32	localDTEAddress	{2 13 0 2 7 39}	SEQUENCE	c213		m		m		–		–		c214		
33	logicalChannelAssignments	{2 13 0 2 7 48}	SEQUENCE	c213		m		m		–		–		c214		
34	nUIOverride	{2 13 0 2 7 154}	BOOLEAN	c217		c218		c218		–		–		c218		
35	nUISubscription	{2 13 0 2 7 153}	BOOLEAN	c217		c218		c218		–		–		c218		
36	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c226		m		x		–		–		x		
37	nonStandardDefaultPacketSizes	{2 13 0 2 7 151}	SEQUENCE	c217		c218		c218		–		–		c218		
38	nonStandardDefaultWindowSizes	{2 13 0 2 7 152}	SEQUENCE	c217		c218		c218		–		–		c218		
39	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c213		m		x		–		–		x		
40	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	c223		c224		c225		–		–		c225		
41	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	c223		c224		c225		–		–		c225		
42	oneWayLogicalChannelIncoming	{2 13 0 2 7 156}	BOOLEAN	c217		c218		c218		–		–		c218		
43	oneWayLogicalChannelOutgoing	{2 13 0 2 7 157}	BOOLEAN	c213		m		m		–		–		m		
44	onlineFacilityRegistration	{2 13 0 2 7 158}	BOOLEAN	c217		c218		c218		–		–		c218		
45	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	x		m		x		–		–		x		
46	outgoingCallBarredWithinCUG	{2 13 0 2 7 160}	BOOLEAN	c217		c218		c218		–		–		c218		
47	outgoingCallsBarred	{2 13 0 2 7 159}	BOOLEAN	c213		m		m		–		–		m		
48	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c227		c228		c229		c229		c229		c229		
49	packetRetransmission	{2 13 0 2 7 161}	BOOLEAN	c217		c218		c218		–		–		c218		

Table F.84 *(concluded)*

				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
50	protocolVersionSupported	{2 13 0 2 7 38}	ENUMERATED	c219		m		c214		–		–		c214		
51	providerInitiatedDisconnects	{2 13 0 2 7 54}	INTEGER	c223		c224		c225		–		–		c225		
52	providerInitiatedResets	{2 13 0 2 7 59}	INTEGER	c223		c224		c225		–		–		c225		
53	rOASubscription	{2 13 0 2 7 167}	BOOLEAN	c217		c218		c218		–		–		c218		
54	remotelyInitiatedResets	{2 13 0 2 7 57}	INTEGER	c223		c224		c225		–		–		c225		
55	remotelyInitiatedRestarts	{2 13 0 2 7 61}	INTEGER	c223		c224		c225		–		–		c225		
56	resetIndication	{2 13 0 2 7 163}	INTEGER	c220		c221		c221		–		–		c222		
57	resetTimeouts	{2 13 0 2 7 60}	INTEGER	c223		c224		c225		–		–		c225		
58	restartIndication	{2 13 0 2 7 164}	INTEGER	c220		c221		c221		–		–		c222		
59	reverseChargingAcceptance	{2 13 0 2 7 165}	BOOLEAN	c217		c218		c218		–		–		c218		
60	sN-SAP	{2 13 0 2 7 18}	ObjectInstance	c219		m		c214		–		–		c214		
61	sN-ServiceProvider	{2 13 0 2 7 19}	ObjectInstance	c213		m		m		–		–		m		
62	throughputClassNegotiation	{2 13 0 2 7 168}	BOOLEAN	c213		m		m		–		–		m		
63	x25PLEId	{2 13 0 2 7 36}	GraphicString	c226		m		x		–		–		x		
64	x25PLEMode	{2 13 0 2 7 120}	ENUMERATED	c213		m		m		–		–		c214		
65	x25SegmentsReceived	{2 13 0 2 7 171}	INTEGER	c223		c224		c225		–		–		c225		
66	x25SegmentsSent	{2 13 0 2 7 170}	INTEGER	c223		c224		c225		–		–		c225		

c213: if G.1/30a then m else x
c214: if F.81/1b then x else –
c215: if F.83/3a then (if G.1/30a then o else x) else –
c216: if F.83/3a then m else –
c217: if F.83/7a then (if G.1/30a then m else x) else –
c218: if F.83/7a then m else –
c219: if F.81/1b or G.1/29a x then x else –
c220: if F.83/8a then (if G.1/30a then m else x) else –
c221: if F.83/8a then m else –
c222: if F.83/8a and F.81/1b then x else –
c223: if F.83/6a and (F.81/1b or G.1/29a) then x else –
c224: if F.83/6a then m else –
c225: if F.83/6a and F.81/1b then x else –
c226: if G.1/30a then o else x
c227: if F.83/2a then (if G.1/30a then o else x) else –
c228: if F.83/2a then m else –
c229: if F.83/2a then x else –

F.15.4 Attribute Groups

See Table F.85.

Table F.85 – x25PLE-DCE 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}	callAttempts callsConnected	m		–		
2	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994" counters	{2 9 3 5 8 0}	dataPacketsReceived dataPacketsSent interruptPacketsReceived interruptPacketsSent interruptTimerExpiries "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter providerInitiatedDisconnects providerInitiatedResets remotelyInitiatedResets remotelyInitiatedRestarts resetTimeouts x25SegmentsReceived x25SegmentsSent	c224		–		
3	"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		–		

F.15.5 Actions

See Table F.86.

Table F.86 – x25PLE-DCE 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			3.1	ActionInfo	**Information Syntax** SET OF SEQUENCE	m		
							3.1.1	identifier	OBJECT IDENTIFIER	m		
							3.1.2	significance	BOOLEAN	o		
							3.1.3	information	ANY DEFINED BY identifier	m		
							3.2	ActionReply	**Reply Syntax** SET OF SEQUENCE	m		
							3.2.1	identifier	OBJECT IDENTIFIER	m		
							3.2.2	significance	BOOLEAN	o		
							3.2.3	information	ANY DEFINED BY identifier	m		

F.15.6 Notifications

See Table F.87.

Table F.87 – x25PLE-DCE Notification support

					Support									
Index	Notification type templace 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": 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.87 *(continued)*

					Support									
Index	Notification type templace 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		

Table F.87 *(concluded)*

Index	Notification type templace 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
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": stateChange	{2 9 3 2 10 14}		m				3.1	StateChangeInfo		**Information Syntax** SEQUENCE	m		
								3.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								3.1.2	attributeIdentifierList	{2 9 3 2 7 8}	SET OF AttributeId	o		
								3.1.3	stateChangeDefinition	{2 9 3 2 7 28}	SET OF SEQUENCE	m		
								3.1.3.1	attributeID	–	AttributeId	m		
								3.1.3.2	oldAttributeValue	–	ANY DEFINED BY attributeID	o		
								3.1.3.3	newAttributeValue	–	ANY DEFINED BY attributeID	m		
								3.1.4	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								3.1.5	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								3.1.5.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								3.1.5.2	sourceObjectInst	–	ObjectInstance	c:o		
								3.1.6	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								3.1.7	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								3.1.7.1	identifier	–	OBJECT IDENTIFIER	c:m		
								3.1.7.2	significance	–	BOOLEAN	c:o		
								3.1.7.3	information	–	ANY DEFINED BY identifier	c:m		

F.16 The X25 PLE DTE managed object

F.16.1 Statement of conformance to the managed object class

See Table F.88.

Table F.88 – x25PLE-DTE 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	x25PLE-DTE	{2 13 0 2 3 17}		

If the answer to the actual class question in Table F.88 is No, the supplier of the implementation shall fill in the actual class support Table F.89.

Table F.89 – x25PLE-DTE 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.16.2 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.90.

Table F.90 – x25PLE-DTE 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": topPackage		Mandatory	m		
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"	c230		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c231		
4	x25PLE-DTE-P		Mandatory	m		
5	x25PLE-P		Mandatory	m		
6	dTEX25PLECo unters-P	{2 13 0 2 4 18}	"the instance supports the dTEX25PLECo unters-P capabilities"	o		
7	receivingWindowRo tationRecoveryPro cedures-P	{2 13 0 2 4 12}	"The optional window rotation recovery procedures are implemented at a receiving DTE"	o		
8	transmittingWind owRotationRecover yProcedures-P	{2 13 0 2 4 13}	"The optional window rotation recovery procedures are implemented at a transmitting DTE"	o		
9	packetRetransmis sionProcedures-P	{2 13 0 2 4 14}	"The optional packet retransmission procedures are implemented"	o		
10	onlineRegistration-P	{2 13 0 2 4 11}	"The optional online registration facility is implemented"	o		
c230: if F.90/3a or F.90/6a or F.90/7a or F.90/8a or F.90/9a or F.90/10a then m else – c231: if F.88/1b then – else m						

F.16.3 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.91. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

Table F.91 – x25PLE-DTE 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	c232		m		m		–		–		c233		
2	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphs	{2 9 3 2 7 50}	SET OF ObjectClass	c234		c235		–		–		–		–		
3	callAttempts	{2 13 0 2 7 52}	INTEGER	c236		m		c233		–		–		c233		
4	callDeflectionSubscription	{2 13 0 2 7 114}	BOOLEAN	c232		m		m		–		–		m		
5	callEstablishmentRetryCountsExceeded	{2 13 0 2 7 65}	INTEGER	c236		m		c233		–		–		c233		
6	callRequestResponseTimer	{2 13 0 2 7 77}	INTEGER	c232		m		m		–		–		m		
7	callTimeouts	{2 13 0 2 7 55}	INTEGER	c237		c238		c239		–		–		c239		
8	callsConnected	{2 13 0 2 7 53}	INTEGER	c237		c238		c239		–		–		c239		
9	clearCountsExceeded	{2 13 0 2 7 66}	INTEGER	c237		c238		c239		–		–		c239		
10	clearRequestResponseTimer	{2 13 0 2 7 79}	INTEGER	c232		m		m		–		–		m		
11	clearRequestRetransmissionCount	{2 13 0 2 7 81}	INTEGER	c232		m		m		–		–		m		
12	clearTimeouts	{2 13 0 2 7 56}	INTEGER	c237		c238		c239		–		–		c239		
13	dataPacketRetransmissionCount	{2 13 0 2 7 85}	INTEGER	c240		c241		c241		–		–		c241		
14	dataPacketsReceived	{2 13 0 2 7 51}	INTEGER	c237		c238		c239		–		–		c239		
15	dataPacketsSent	{2 13 0 2 7 50}	INTEGER	c237		c238		c239		–		–		c239		
16	dataRetransmissionTimerExpiries	{2 13 0 2 7 58}	INTEGER	c237		c238		c239		–		–		c239		
17	defaultPacketSizes	{2 13 0 2 7 103}	SEQUENCE	c232		m		m		–		–		m		
18	defaultThroughputClasses	{2 13 0 2 7 112}	SEQUENCE	c232		m		m		–		–		m		
19	defaultWindowSizes	{2 13 0 2 7 104}	SEQUENCE	c232		m		m		–		–		m		
20	extendedPacketSequenceNumbering	{2 13 0 2 7 49}	INTEGER	c232		m		m		–		–		m		
21	flowControlParameterNegotiation	{2 13 0 2 7 119}	BOOLEAN	c232		m		m		–		–		m		
22	interruptResponseTimer	{2 13 0 2 7 82}	INTEGER	c232		m		m		–		–		m		
23	localDTEAddress	{2 13 0 2 7 39}	SEQUENCE	c232		m		m		–		–		m		
24	logicalChannelAssignments	{2 13 0 2 7 48}	SEQUENCE	c232		m		m		–		–		c233		
25	maxActiveCircuits	{2 13 0 2 7 41}	CHOICE	c232		m		m		–		–		m		
26	minimumRecallTimer	{2 13 0 2 7 43}	INTEGER	c232		m		m		–		–		m		

Table F.91 *(continued)*

				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
27	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	c242		m		x		–		–		x		
28	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	c232		m		x		–		–		x		
29	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter	{2 9 3 2 7 78}	INTEGER	c237		c238		c239		–		–		c239		
30	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter	{2 9 3 2 7 80}	INTEGER	c237		c238		c239		–		–		c239		
31	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": operationalState	{2 9 3 2 7 35}	ENUMERATED	x		m		x		–		–		x		
32	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c243		c244		c245		c245		c245		c245		
33	protocolErrorsAccusedOf	{2 13 0 2 7 64}	INTEGER	c236		m		c233		–		–		c233		
34	protocolErrorsDetectedLocally	{2 13 0 2 7 63}	INTEGER	c236		m		c233		–		–		c233		
35	protocolVersionSupported	{2 13 0 2 7 38}	ENUMERATED	c236		m		c233		–		–		c233		
36	providerInitiatedDisconnects	{2 13 0 2 7 54}	INTEGER	c237		c238		c239		–		–		c239		
37	providerInitiatedResets	{2 13 0 2 7 59}	INTEGER	c237		c238		c239		–		–		c239		
38	registrationPermitted	{2 13 0 2 7 105}	BOOLEAN	c246		c247		c247		–		–		c247		
39	registrationRequestResponseTimer	{2 13 0 2 7 44}	INTEGER	c246		c247		c247		–		–		c247		
40	registrationRequestRetransmissionCount	{2 13 0 2 7 46}	INTEGER	c246		c247		c247		–		–		c247		
41	rejectResponseTimer	{2 13 0 2 7 86}	INTEGER	c248		c249		c249		–		–		c249		
42	rejectRetransmissionCount	{2 13 0 2 7 87}	INTEGER	c248		c249		c249		–		–		c249		
43	remotelyInitiatedResets	{2 13 0 2 7 57}	INTEGER	c237		c238		c239		–		–		c239		
44	remotelyInitiatedRestarts	{2 13 0 2 7 61}	INTEGER	c237		c238		c239		–		–		c239		
45	resetRequestResponseTimer	{2 13 0 2 7 78}	INTEGER	c232		m		m		–		–		m		
46	resetRequestRetransmissionCount	{2 13 0 2 7 80}	INTEGER	c232		m		m		–		–		m		
47	resetTimeouts	{2 13 0 2 7 60}	INTEGER	c237		c238		c239		–		–		c239		

Table F.91 *(concluded)*

				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
48	restartCountsExceeded	{2 13 0 2 7 62}	INTEGER	c237		c238		c239		–		–		c239		
49	restartRequestResponseTimer	{2 13 0 2 7 42}	INTEGER	c232		m		m		–		–		m		
50	restartRequestRetransmissionCount	{2 13 0 2 7 45}	INTEGER	c232		m		m		–		–		m		
51	sN-SAP	{2 13 0 2 7 18}	ObjectInstance	c236		m		c233		–		–		c233		
52	sN-ServiceProvider	{2 13 0 2 7 19}	ObjectInstance	c232		m		m		–		–		m		
53	throughputClassNegotiation	{2 13 0 2 7 168}	BOOLEAN	c232		m		m		–		–		m		
54	windowRotationTimer	{2 13 0 2 7 84}	INTEGER	c240		c241		c241		–		–		c241		
55	windowStatusTransmissionTimer	{2 13 0 2 7 83}	INTEGER	c250		c251		c251		–		–		c251		
56	x25PLEId	{2 13 0 2 7 36}	GraphicString	c242		m		x		–		–		x		
57	x25PLEMode	{2 13 0 2 7 120}	ENUMERATED	c232		m		m		–		–		c233		

c232: if G.1/30a then m else x
c233: if F.88/1b then x else –
c234: if F.90/3a then (if G.1/30a then o else x) else –
c235: if F.90/3a then m else –
c236: if F.88/1b or G.1/29a then x else –
c237: if F.90/6a and (F.88/1b or G.1/29a) then x else –
c238: if F.90/6a then m else –
c239: if F.90/6a and F.88/1b then x else –
c240: if F.90/8a then (if G.1/30a then m else x) else –
c241: if F.90/8a then m else –
c242: if G.1/30a then o else x
c243: if F.90/2a then (if G.1/30a then o else x) else –
c244: if F.90/2a then m else –
c245: if F.90/2a then x else –
c246: if F.90/10a then (if G.1/30a then m else x) else –
c247: f F.90/10a then m else –
c248: if F.90/9a then (if G.1/30a then m else x) else –
c249: if F.90/9a then m else –
c250: if F.90/7a then (if G.1/30a then m else x) else –
c251: if F.90/7a then m else –

F.16.4 Attribute Groups

See Table F.92.

Table F.92 – x25PLE-DTE 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}	callAttempts callEstablishmentRetryCountsExceeded protocolErrorsAccusedOf protocolErrorsDetectedLocally	m		–		
2	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994" counters	{2 9 3 5 8 0}	callTimeouts callsConnected clearCountsExceeded clearTimeouts dataPacketsReceived dataPacketsSent dataRetransmissionTimerExpiries "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsReceivedCounter "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": octetsSentCounter providerInitiatedDisconnects providerInitiatedResets remotelyInitiatedResets remotelyInitiatedRestarts resetTimeouts restartCountsExceeded	c238		–		
3	"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		–		

F.16.5 Actions

See Table F.93.

Table F.93 – x25PLE-DTE 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.16.6 Notifications

See Table F.94.

Table F.94 – x25PLE-DTE Notification support

					Support									
Index	Notification type templace 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			notificationData	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		

Table F.94 *(continued)*

Index	Notification type templace 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	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		
								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		

Table F.94 *(continued)*

Index	Notification type templace 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	proposedRepairActions	{2 9 3 2 7 19}	SET OF CHOICE	o		
								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		

Table F.94 *(continued)*

Index	Notification type templace 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
								2.1.6.1	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.94 *(concluded)*

Index	Notification type templace 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
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.16.7 Parameters

See Table F.95.

Table F.95 – x25PLE-DTE Parameter support

Index	Parameter template label	Value of object identifier for parameter	Constraints and values	Status	Support	Additional information
1	notificationData	{2 13 0 2 5 7}	EVENT-INFO communicationsAlarm	m		

F.17 The X25 PLE DCE initial values managed object

F.17.1 Statement of conformance to the managed object class

See Table F.96.

Table F.96 – x25PLEIVMO-DCE 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	x25PLEIVMO-DCE	{2 13 0 2 3 28}		

If the answer to the actual class question in the managed object class support Table F.96 is No, the supplier of the implementation shall fill in the actual class support Table F.97.

Table F.97 – x25PLEIVMO-DCE 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.17.2 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.98.

Table F.98 – x25PLEIVMO-DCE 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": topPackage		Mandatory	m		
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"	c252		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c253		
4	x25PLEIVMO-P		Mandatory	m		
c252: if F.98/3a then m else – c253: if F.96/1b then – else m						

F.17.3 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.99. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

Table F.99 – x25PLEIVMO-DCE 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	c254		c255		–		–		–		–		
2	defaultPacketSizes	{2 13 0 2 7 103}	SEQUENCE	m		m		m		–		–		m		
3	defaultThroughputClasses	{2 13 0 2 7 112}	SEQUENCE	m		m		m		–		–		m		
4	defaultWindowSizes	{2 13 0 2 7 104}	SEQUENCE	m		m		m		–		–		m		
5	flowControlParameterNegotiation	{2 13 0 2 7 119}	BOOLEAN	m		m		m		–		–		m		
6	localDTEAddress	{2 13 0 2 7 39}	SEQUENCE	m		m		m		–		–		c256		
7	logicalChannelAssignments	{2 13 0 2 7 48}	SEQUENCE	m		m		m		–		–		c256		
8	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	o		m		x		–		–		x		
9	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	m		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	c257		c258		c259		c259		c259		c259		
11	sN-ServiceProvider	{2 13 0 2 7 19}	ObjectInstance	m		m		m		–		–		c256		
12	throughputClassNegotiation	{2 13 0 2 7 168}	BOOLEAN	m		m		m		–		–		m		
13	x25PLEIVMOId	{2 13 0 2 7 37}	GraphicString	o		m		x		–		–		x		
14	x25PLEMode	{2 13 0 2 7 120}	ENUMERATED	m		m		m		–		–		c256		

c254: if F.98/3a then o else –
c255: if F.98/3a then m else –
c256: if F.96/1b then x else –
c257: if F.98/2a then o else –
c258: if F.98/2a then m else –
c259: if F.98/2a then x else –

F.17.4 Notifications

See Table F.100.

Table F.100 – x25PLEIVMO-DCE Notification support

					Support									
Index	Notification type templace 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": 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.100 *(concluded)*

Index	Notification type templace 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": 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.18 The X25 PLE DTE initial values managed object

F.18.1 Statement of conformance to the managed object class

See Table F.101.

Table F.101 – x25PLEIVMO-DTE 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	x25PLEIVMO-DCE	{2 13 0 2 3 28}		

If the answer to the actual class question in the managed object class support Table F.101 is No, the supplier of the implementation shall fill in the actual class support Table F.102.

Table F.102 – x25PLEIVMO-DTE 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.18.2 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.103.

Table F.103 – x25PLEIVMO-DTE 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": topPackage		Mandatory	m		
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"	c260		
3	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": allomorphicPackage	{2 9 3 2 4 17}	"if an object supports allomorphism"	c261		
4	x25PLEIVMO-DTE-P		Mandatory	m		
5	x25PLEIVMO-P		Mandatory	m		
6	receivingWindowRotationRecoveryProcedures-P	{2 13 0 2 4 12}	"The optional window rotation recovery procedures are implemented at a receiving DTE"	o		
7	transmittingWindowRotationRecoveryProcedures-P	{2 13 0 2 4 13}	"The optional window rotation recovery procedures are implemented at a transmitting DTE"	o		
8	packetRetransmissionProcedures-P	{2 13 0 2 4 14}	"The optional packet retransmission procedures are implemented"	o		
9	onlineRegistration-P	{2 13 0 2 4 11}	"The optional online registration facility is implemented"	o		
c260: if F.103/3a or F.103/6a or F.103/7a or F.103/8a or F.103/9a then m else – c261: if F.101/1b then – else m						

F.18.3 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.104. The supplier of implementation shall indicate support for each of the operations for each attribute supported.

Table F.104 – x25PLEIVMO-DTE 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	c262		c263		–		–		–		–		
2	callDeflectionSubscription	{2 13 0 2 7 114}	BOOLEAN	m		m		m		–		–		m		
3	callRequestResponseTimer	{2 13 0 2 7 77}	INTEGER	m		m		m		–		–		m		
4	clearRequestResponseTimer	{2 13 0 2 7 79}	INTEGER	m		m		m		–		–		m		
5	clearRequestRetransmissionCount	{2 13 0 2 7 81}	INTEGER	m		m		m		–		–		m		
6	dataPacketRetransmissionCount	{2 13 0 2 7 85}	INTEGER	c264		c264		c264		–		–		c264		
7	defaultPacketSizes	{2 13 0 2 7 103}	SEQUENCE	m		m		m		–		–		m		
8	defaultThroughputClasses	{2 13 0 2 7 112}	SEQUENCE	m		m		m		–		–		m		
9	defaultWindowSizes	{2 13 0 2 7 104}	SEQUENCE	m		m		m		–		–		m		
10	extendedPacketSequenceNumbering	{2 13 0 2 7 49}	INTEGER	m		m		m		–		–		m		
11	flowControlParameterNegotiation	{2 13 0 2 7 119}	BOOLEAN	m		m		m		–		–		m		
12	interruptResponseTimer	{2 13 0 2 7 82}	INTEGER	m		m		m		–		–		m		
13	localDTEAddress	{2 13 0 2 7 39}	SEQUENCE	m		m		m		–		–		c265		
14	logicalChannelAssignments	{2 13 0 2 7 48}	SEQUENCE	m		m		m		–		–		c265		
15	maxActiveCircuits	{2 13 0 2 7 41}	CHOICE	m		m		m		–		–		m		
16	minimumRecallTimer	{2 13 0 2 7 43}	INTEGER	m		m		m		–		–		m		
17	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": nameBinding	{2 9 3 2 7 63}	OBJECT IDENTIFIER	o		m		x		–		–		x		
18	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": objectClass	{2 9 3 2 7 65}	ObjectClass	m		m		x		–		–		x		
19	"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": packages	{2 9 3 2 7 66}	SET OF OBJECT IDENTIFIER	c266		c267		c268		c268		c268		c268		

Table F.104 *(concluded)*

				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	registrationPermitted	{2 13 0 2 7 105}	BOOLEAN	c269		c269		c269		–		–		c269		
21	registrationRequestResponseTimer	{2 13 0 2 7 44}	INTEGER	c269		c269		c269		–		–		c269		
22	registrationRequestRetransmissionCount	{2 13 0 2 7 46}	INTEGER	c269		c269		c269		–		–		c269		
23	rejectResponseTimer	{2 13 0 2 7 86}	INTEGER	c270		c270		c270		–		–		c270		
24	rejectRetransmissionCount	{2 13 0 2 7 87}	INTEGER	c270		c270		c270		–		–		c270		
25	resetRequestResponseTimer	{2 13 0 2 7 78}	INTEGER	m		m		m		–		–		m		
26	resetRequestRetransmissionCount	{2 13 0 2 7 80}	INTEGER	m		m		m		–		–		m		
27	restartRequestResponseTimer	{2 13 0 2 7 42}	INTEGER	m		m		m		–		–		m		
28	restartRequestRetransmissionCount	{2 13 0 2 7 45}	INTEGER	m		m		m		–		–		m		
29	sN-ServiceProvider	{2 13 0 2 7 19}	ObjectInstance	m		m		m		–		–		c265		
30	throughputClassNegotiation	{2 13 0 2 7 168}	BOOLEAN	m		m		m		–		–		m		
31	windowRotationTimer	{2 13 0 2 7 84}	INTEGER	c264		c264		c264		–		–		c264		
32	windowStatusTransmissionTimer	{2 13 0 2 7 83}	INTEGER	c271		c271		c271		–		–		c271		
33	x25PLEIVMOId	{2 13 0 2 7 37}	GraphicString	o		m		x		–		–		x		
34	x25PLEMode	{2 13 0 2 7 120}	ENUMERATED	m		m		m		–		–		c265		

c262: if F.103/3a then o else –
c263: if F.103/3a then m else –
c264: if F.103/7a then m else –
c265: if F.101/1b then x else –
c266: if F.103/2a then o else –
c267: if F.103/2a then m else –
c268: if F.103/2a then x else –
c269: if F.103/9a then m else –
c270: if F.103/8a then m else –
c271: if F.103/6a then m else –

F.18.4 Notifications

See Table F.105.

Table F.105 – x25PLEIVMO-DTE Notification support

					Support									
Index	Notification type templace 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": 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.105 *(concluded)*

					Support										
Index	Notification type templace 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		

Annexe G[7)]

Formulaire MRCS de corrélation de nom

(Cette annexe fait partie intégrante de la présente Recommandation | Norme internationale)

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[8)]

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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7) **Droits de reproduction du formulaire MRCS**

Les utilisateurs de la présente Recommandation | Norme internationale sont autorisés à reproduire le formulaire MRCS de la présente annexe pour l'utiliser conformément à son objet. Ils sont également autorisés à publier le formulaire une fois celui-ci complété.

8) Les instructions permettant de remplir le formulaire MRCS sont indiquées dans le paragraphe 5 de la Rec. UIT-T X.724 | ISO/CEI 10165-6.

G.3 Statement of conformance to the name binding

See Table G.1.

Table G.1 – 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	cLNS-networkEntity-Automatic	{2 13 0 2 6 16}	Superior class: networkEntity 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	cLNS-networkEntity-Management	{2 13 0 2 6 3}	Superior class: networkEntity AND SUBCLASSES	o			2.1	Create support		m		
							2.1.1	Create with reference object		–		
							2.1.2	Create with automatic instance naming		–		
							2.2	Delete support		m		
							2.2.1	Delete only if no contained objects		m		
							2.2.2	Delete contained objects		x		
3	"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			3.1	Create support		x		
							3.1.1	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 *(continued)*

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	cONS-networkEntity-Automatic	{2 13 0 2 6 17}	Superior class: networkEntity AND SUBCLASSES	o			4.1	Create support		x		
							4.1.1	Create with reference object		–		
							4.1.2	Create with automatic instance naming		–		
							4.2	Delete support		x		
							4.2.1	Delete only if no contained objects		–		
							4.2.2	Delete contained objects		–		
5	cONS-networkEntity-Management	{2 13 0 2 6 8}	Superior class: networkEntity AND SUBCLASSES	o			5.1	Create support		m		
							5.1.1	Create with reference object		–		
							5.1.2	Create with automatic instance naming		–		
							5.2	Delete support		m		
							5.2.1	Delete only if no contained objects		m		
							5.2.2	Delete contained objects		x		
6	"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			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 *(continued)*

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	dSeriesCountsvirtualCall-DCE-Automatic	{2 13 0 2 6 32}	Superior class: virtualCall-DCE AND SUBCLASSES	o			7.1	Create support		x		
							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		–		
							7.2.2	Delete contained objects		–		
8	dSeriesCountsvirtualCall-DCE-Management	{2 13 0 2 6 33}	Superior class: virtualCall-DCE AND SUBCLASSES	o			8.1	Create support		m		
							8.1.1	Create with reference object		–		
							8.1.2	Create with automatic instance naming		–		
							8.2	Delete support		m		
							8.2.1	Delete only if no contained objects		–		
							8.2.2	Delete contained objects		–		
9	linkage-cLNS-Automatic	{2 13 0 2 6 22}	Superior class: cLNS 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 *(continued)*

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	linkage-cLNS-Management	{2 13 0 2 6 20}	Superior class: cLNS AND SUBCLASSES	o			10.1	Create support		m		
							10.1.1	Create with reference object		m		
							10.1.2	Create with automatic instance naming		–		
							10.2	Delete support		m		
							10.2.1	Delete only if no contained objects		–		
							10.2.2	Delete contained objects		–		
11	linkage-cONS-Automatic	{2 13 0 2 6 23}	Superior class: cONS 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	linkage-cONS-Management	{2 13 0 2 6 21}	Superior class: cONS AND SUBCLASSES	o			12.1	Create support		m		
							12.1.1	Create with reference object		m		
							12.1.2	Create with automatic instance naming		–		
							12.2	Delete support		m		
							12.2.1	Delete only if no contained objects		–		
							12.2.2	Delete contained objects		–		

Table G.1 *(continued)*

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	nSAP-networkSubsystem-Automatic	{2 13 0 2 6 4}	Superior class: networkSubsystem AND SUBCLASSES	o			13.1	Create support		x		
							13.1.1	Create with reference object		–		
							13.1.2	Create with automatic instance naming		–		
							13.2	Delete support		x		
							13.2.1	Delete only if no contained objects		–		
							13.2.2	Delete contained objects		–		
14	nSAP-networkSubsystem-Management	{2 13 0 2 6 5}	Superior class: networkSubsystem AND SUBCLASSES	o			14.1	Create support		m		
							14.1.1	Create with reference object		–		
							14.1.2	Create with automatic instance naming		–		
							14.2	Delete support		m		
							14.2.1	Delete only if no contained objects		–		
							14.2.2	Delete contained objects		–		
15	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": sap2-subsystem	{2 9 3 5 6 4}	Superior class: "ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": subsystem 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 *(continued)*

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	networkConnection-cONS	{2 13 0 2 6 19}	Superior class: cONS 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		m		
							16.2.1	Delete only if no contained objects		–		
							16.2.2	Delete contained objects		–		
17	"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			17.1	Create support		x		
							17.1.1	Create with reference object		–		
							17.1.2	Create with automatic instance naming		–		
							17.2	Delete support		x		
							17.2.1	Delete only if no contained objects		–		
							17.2.2	Delete contained objects		–		
18	networkEntity-networkSubsystem-Automatic	{2 13 0 2 6 27}	Superior class: networkSubsystem 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 *(continued)*

cfsccfs cIndex	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	networkEntity-networkSubsystem-Management	{2 13 0 2 6 28}	Superior class: networkSubsystem 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		–		
							19.2.2	Delete contained objects		–		
20	"ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": communicationsEntity-subsystem	{2 9 3 5 6 1}	Superior class: "ITU-T Rec. X.723 (1993) | ISO/IEC 10165-5:1994": subsystem AND SUBCLASSES	o			20.1	Create support		x		
							20.1.1	Create with reference object		–		
							20.1.2	Create with automatic instance naming		–		
							20.2	Delete support		x		
							20.2.1	Delete only if no contained objects		–		
							20.2.2	Delete contained objects		–		
21	networkSubsystem-system	{2 13 0 2 6 1}	Superior class: "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2:1992": system AND SUBCLASSES	o			21.1	Create support		x		
							21.1.1	Create with reference object		–		
							21.1.2	Create with automatic instance naming		–		
							21.2	Delete support		x		
							21.2.1	Delete only if no contained objects		–		
							21.2.2	Delete contained objects		–		

Table G.1 *(continued)*

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
22	"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			22.1	Create support		x		
							22.1.1	Create with reference object		–		
							22.1.2	Create with automatic instance naming		–		
							22.2	Delete support		x		
							22.2.1	Delete only if no contained objects		–		
							22.2.2	Delete contained objects		–		
23	permanentVirtualCircuit-DCE-x25PLE-DCE	{2 13 0 2 6 29}	Superior class: x25PLE-DCE AND SUBCLASSES	o			23.1	Create support		m		
							23.1.1	Create with reference object		–		
							23.1.2	Create with automatic instance naming		m		
							23.2	Delete support		m		
							23.2.1	Delete only if no contained objects		–		
							23.2.2	Delete contained objects		–		
24	permanentVirtualCircuit-DTE-x25PLE-DTE	{2 13 0 2 6 26}	Superior class: x25PLE-DTE AND SUBCLASSES	o			24.1	Create support		m		
							24.1.1	Create with reference object		–		
							24.1.2	Create with automatic instance naming		m		
							24.2	Delete support		m		
							24.2.1	Delete only if no contained objects		–		
							24.2.2	Delete contained objects		–		

Table G.1 *(continued)*

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
25	virtualCall-DCE-x25PLE-DCE-Automatic	{2 13 0 2 6 30}	Superior class: x25PLE-DCE AND SUBCLASSES	o			25.1	Create support		x		
							25.1.1	Create with reference object		–		
							25.1.2	Create with automatic instance naming		–		
							25.2	Delete support		m		
							25.2.1	Delete only if no contained objects		–		
							25.2.2	Delete contained objects		–		
26	virtualCall-DCE-x25PLE-DCE-Management	{2 13 0 2 6 31}	Superior class: x25PLE-DCE AND SUBCLASSES	o			26.1	Create support		m		
							26.1.1	Create with reference object		–		
							26.1.2	Create with automatic instance naming		m		
							26.2	Delete support		m		
							26.2.1	Delete only if no contained objects		–		
							26.2.2	Delete contained objects		–		
27	virtualCall-DTE-x25PLE-DTE	{2 13 0 2 6 24}	Superior class: x25PLE-DTE AND SUBCLASSES	o			27.1	Create support		x		
							27.1.1	Create with reference object		–		
							27.1.2	Create with automatic instance naming		–		
							27.2	Delete support		x		
							27.2.1	Delete only if no contained objects		–		
							27.2.2	Delete contained objects		–		

Table G.1 *(continued)*

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
28	virtualCallIVMO-x25PLE	{2 13 0 2 6 25}	Superior class: x25PLE AND SUBCLASSES	o			28.1	Create support		m		
							28.1.1	Create with reference object		–		
							28.1.2	Create with automatic instance naming		–		
							28.2	Delete support		m		
							28.2.1	Delete only if no contained objects		–		
							28.2.2	Delete contained objects		–		
29	x25PLE-networkSubsystem-Automatic	{2 13 0 2 6 18}	Superior class: networkSubsystem AND SUBCLASSES	o			29.1	Create support		x		
							29.1.1	Create with reference object		–		
							29.1.2	Create with automatic instance naming		–		
							29.2	Delete support		m		
							29.2.1	Delete only if no contained objects		–		
							29.2.2	Delete contained objects		–		
30	x25PLE-networkSubsystem-Management	{2 13 0 2 6 9}	Superior class: networkSubsystem AND SUBCLASSES	o			30.1	Create support		m		
							30.1.1	Create with reference object		m		
							30.1.2	Create with automatic instance naming		–		
							30.2	Delete support		m		
							30.2.1	Delete only if no contained objects		m		
							30.2.2	Delete contained objects		x		

Table G.1 *(concluded)*

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
31	x25PLEIVMO-networkSubsystem	{2 13 0 2 6 10}	Superior class: networkSubsystem AND SUBCLASSES	o			31.1	Create support		m		
							31.1.1	Create with reference object		m		
							31.1.2	Create with automatic instance naming		–		
							31.2	Delete support		m		
							31.2.1	Delete only if no contained objects		–		
							31.2.2	Delete contained objects		–		

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