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SERIE X: REDES DE DATOS Y COMUNICACIÓN
ENTRE SISTEMAS ABIERTOS

Interconexión de sistemas abiertos – Objetos gestionados
de capa

**Tecnología de la información –
Elementos de información de gestión
relacionados con la capa de red de
interconexión de sistemas abiertos**

Recomendación UIT-T X.283

(Anteriormente Recomendación del CCITT)

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NORMA INTERNACIONAL 10733

RECOMENDACIÓN UIT-T X.283

**TECNOLOGÍA DE LA INFORMACIÓN – ELEMENTOS DE INFORMACIÓN DE
GESTIÓN RELACIONADOS CON LA CAPA DE RED DE
INTERCONEXIÓN DE SISTEMAS ABIERTOS**

Resumen

En la presente Recomendación | Norma Internacional se especifica la información de gestión relacionada con las operaciones de la capa de red, incluidas la definición de clase de objeto gestionado de objetos gestionados de capa de red, la relación de los objetos gestionados y los atributos con el funcionamiento de la capa y con otros objetos y atributos de la capa, y las acciones admisibles en los atributos de objetos gestionados de capa de red.

Orígenes

El texto de la Recomendación UIT-T X.283 se aprobó el 12 de diciembre de 1997. Su texto se publica también, en forma idéntica, como Norma Internacional ISO/CEI 10733.

PREFACIO

La UIT (Unión Internacional de Telecomunicaciones) es el organismo especializado de las Naciones Unidas en el campo de las telecomunicaciones. El UIT-T (Sector de Normalización de las Telecomunicaciones de la UIT) es un órgano permanente de la UIT. Este órgano estudia los aspectos técnicos, de explotación y tarifarios y publica Recomendaciones sobre los mismos, con miras a la normalización de las telecomunicaciones en el plano mundial.

La Conferencia Mundial de Normalización de las Telecomunicaciones (CMNT), que se celebra cada cuatro años, establece los temas que han de estudiar las Comisiones de Estudio del UIT-T, que a su vez producen Recomendaciones sobre dichos temas.

La aprobación de Recomendaciones por los Miembros del UIT-T es el objeto del procedimiento establecido en la Resolución N.º 1 de la CMNT.

En ciertos sectores de la tecnología de la información que corresponden a la esfera de competencia del UIT-T, se preparan las normas necesarias en colaboración con la ISO y la CEI.

NOTA

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

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Introducción

Esta Recomendación | Norma Internacional forma parte de un conjunto de Recomendaciones y Normas Internacionales elaboradas para facilitar la interconexión de sistemas abiertos. El conjunto de Recomendaciones y Normas Internacionales abarca los servicios, protocolos e información de gestión requeridos para lograr esa interconexión.

La posición de la presente Recomendación | Norma Internacional con respecto a otras Recomendaciones y Normas Internacionales conexas es determinada por las capas definidas en el *modelo de referencia para la interconexión de sistemas abiertos* (véase la Rec. UIT-T X.200 | ISO/CEI 7498-1). La presente Recomendación | Norma Internacional trata, en particular, de la definición de información de gestión de la capa de red.

Esta Recomendación | Norma Internacional es una actualización de la Rec. UIT-T X.283 (1993) y de la Norma ISO/CEI 10733:1993 para incorporar todas las enmiendas y corrigenda técnicas.

NORMA INTERNACIONAL

RECOMENDACIÓN UIT-T

TECNOLOGÍA DE LA INFORMACIÓN – ELEMENTOS DE INFORMACIÓN DE GESTIÓN RELACIONADOS CON LA CAPA DE RED DE INTERCONEXIÓN DE SISTEMAS ABIERTOS

1 Alcance

En la presente Recomendación | Norma Internacional se especifica la información de gestión dentro de un sistema abierto relacionado con las operaciones de la capa de red de OSI. La especificación de cómo se realiza la gestión de la capa de red rebasa el alcance de la presente Recomendación | Norma Internacional. La información de gestión de la capa de red se define especificando:

- la definición de clase de objeto gestionado de objetos gestionados de capa de red siguiendo las directrices expuestas en la *Estructura de la información de gestión* (véanse las Recomendaciones X.720-X.724 e ISO/CEI 10165);
- la relación de los objetos gestionados y los atributos del funcionamiento de la capa y de otros objetos y atributos de la capa; y
- las operaciones de tipo de acción en los atributos de objetos gestionados de capa de red disponibles para la gestión de sistemas de OSI.

Los anexos D, E, F y G, que son parte de esta Recomendación | Norma Internacional proporcionan formularios de ICS asociados con la información de gestión de la capa de red.

2 Referencias normativas

Las siguientes Recomendaciones y Normas Internacionales contienen disposiciones que, mediante su referencia en este texto, constituyen disposiciones de la presente Recomendación | Norma Internacional. Al efectuar esta publicación, estaban en vigor las ediciones indicadas. Todas las Recomendaciones y Normas son objeto de revisiones, por lo que se preconiza que los participantes en acuerdos basados en la presente Recomendación | Norma Internacional investiguen la posibilidad de aplicar las ediciones más recientes de las Recomendaciones y las Normas citadas a continuación. Los miembros de la CEI y de la ISO mantienen registros de las Normas Internacionales actualmente vigentes. La Oficina de Normalización de las Telecomunicaciones de la UIT mantiene una lista de las Recomendaciones UIT-T actualmente vigentes.

2.1 Recomendaciones | Normas Internacionales idénticas

- Recomendación UIT-T X.200 (1994) | ISO/CEI 7498-1:1994, *Tecnología de la información – Interconexión de sistemas abiertos – Modelo de referencia básico: El modelo básico*.
- Recomendación UIT-T X.213 (1995) | ISO/CEI 8348:1996, *Tecnología de la información – Interconexión de sistemas abiertos – Definición del servicio de red*.
- Recomendación UIT-T X.233 (1993) | ISO/CEI 8473-1:1994, *Tecnología de la información – Protocolo para proporcionar el servicio de red en modo sin conexión de interconexión de sistemas abiertos: Especificación del protocolo*.
- Recomendación UIT-T X.263 (1995) | ISO/CEI TR 9577:1996, *Tecnología de la información – Identificación de protocolo en la capa de red*.
- Recomendación UIT-T X.284 (1997) | ISO/CEI 10737:1998, *Tecnología de la información – Elementos de información de gestión relacionados con la capa de transporte de interconexión de sistemas abiertos*.
- Recomendación X.612 del CCITT (1992) | ISO/CEI 9574:1992, *Tecnología de la información – Prestación del servicio de red en modo conexión para interconexión de sistemas abiertos por equipos terminales en modo paquete conectados a una red de servicios integrados*.

- Recomendación X.701 del CCITT (1992) | ISO/CEI 10040:1992, *Tecnología de la información – Interconexión de sistemas abiertos – Visión general de la gestión de sistemas.*
- Recomendación UIT-T X.710 (1997) | ISO/CEI 9595:1998, *Tecnología de la información – Interconexión de sistemas abiertos – Servicio común de información de gestión.*
- Recomendación UIT-T X.711 (1997) | ISO/CEI 9596-1:1998, *Tecnología de la información – Interconexión de sistemas abiertos – Protocolo común de información de gestión: Especificación.*
- Recomendación X.720 del CCITT (1992) | ISO/CEI 10165-1:1993, *Tecnología de la información – Interconexión de sistemas abiertos – Estructura de la información de gestión: Modelo de información de gestión.*
- Recomendación X.721 del CCITT (1992) | ISO/CEI 10165-2:1992, *Tecnología de la información – Interconexión de sistemas abiertos – Estructura de la información de gestión: Definición de la información de gestión.*
- Recomendación X.722 del CCITT (1992) | ISO/CEI 10165-4:1992, *Tecnología de la información – Interconexión de sistemas abiertos – Estructura de la información de gestión: Directrices para la definición de objetos gestionados.*
- Recomendación UIT-T X.723 (1993) | ISO/CEI 10165-5:1994, *Tecnología de la información – Interconexión de sistemas abiertos – Estructura de la información de gestión: Información de gestión genérica.*
- Recomendación UIT-T X.724 (1996) | ISO/CEI 10165-6:1997, *Tecnología de la información – Interconexión de sistemas abiertos – Estructura de la información de gestión: Requisitos y directrices para los formularios de declaración de conformidad de implementación asociados con la gestión de interconexión de sistemas abiertos.*
- Recomendación X.730 del CCITT (1992) | ISO/CEI 10164-1:1993, *Tecnología de la información – Interconexión de sistemas abiertos – Gestión de sistemas: Función de gestión de objetos.*
- Recomendación X.731 del CCITT (1992) | ISO/CEI 10164-2:1992, *Tecnología de la información – Interconexión de sistemas abiertos – Gestión de sistemas: Función de gestión de estados.*
- Recomendación X.732 del CCITT (1992) | ISO/CEI 10164-3:1993, *Tecnología de la información – Interconexión de sistemas abiertos – Gestión de sistemas: Atributos para la representación de relaciones.*
- Recomendación X.733 del CCITT (1992) | ISO/CEI 10164-4:1992, *Tecnología de la información – Interconexión de sistemas abiertos – Gestión de sistemas: Función señaladora de alarmas.*
- Recomendación X.734 del CCITT (1992) | ISO/CEI 10164-5:1993, *Tecnología de la información – Interconexión de sistemas abiertos – Gestión de sistemas: Función de gestión de informes de eventos.*
- Recomendación X.735 del CCITT (1992) | ISO/CEI 10164-6:1993, *Tecnología de la información – Interconexión de sistemas abiertos – Gestión de sistemas: Función control de ficheros registro cronológico.*

2.2 Pares de Recomendaciones | Normas Internacionales de contenido técnico equivalente

- Recomendación X.208 del CCITT (1988), *Especificación de la notación de sintaxis abstracta uno.*
ISO/CEI 8824:1990, *Information technology – Open Systems Interconnection – Specification of Abstract Syntax Notation One.*
- Recomendación X.209 del CCITT (1988), *Especificación de las reglas básicas de codificación de la notación de sintaxis abstracta uno.*
ISO/CEI 8825:1990, *Information technology – Open Systems Interconnection – Specification of Basic Encoding Rules for Abstract Syntax Notation One (ASN.1).*
- Recomendación UIT-T X.223 (1993), *Utilización de la Recomendación X.25 para proporcionar el servicio de red con conexión OSI para aplicaciones del UIT-T.*
ISO/CEI 8878:1992, *Information technology – Telecommunications and information exchange between systems – Use of X.25 to Provide the OSI Connection-mode Network Service.*
- Recomendación UIT-T X.290 (1995), *Metodología y marco de las pruebas de conformidad de interconexión de sistemas abiertos de las Recomendaciones sobre los protocolos para aplicaciones del UIT-T – Conceptos generales.*
ISO/CEI 9646-1:1994, *Information technology – Open Systems Interconnection – Conformance testing methodology and framework – Part 1: General concepts.*

- Recomendación UIT-T X.291 (1995), *Metodología y marco de las pruebas de conformidad de interconexión de sistemas abiertos de las Recomendaciones sobre los protocolos para aplicaciones del UIT-T – Especificación de sucesiones de pruebas abstractas*.
- ISO/CEI 9646-2:1994, *Information technology – Open Systems Interconnection – Conformance testing methodology and framework – Part 2: Abstract Test Suite specification*.
- Recomendación UIT-T X.296 (1995), *Metodología y marco de las pruebas de conformidad de interconexión de sistemas abiertos de las Recomendaciones sobre los protocolos para aplicaciones del UIT-T – Declaraciones de conformidad de implementación*.
- ISO/CEI 9646-7:1995, *Information technology – Open Systems Interconnection – Conformance testing methodology and framework – Part 7: Implementation conformance statements*.
- Recomendación X.700 del CCITT (1992), *Marco de gestión para la interconexión de sistemas abiertos para aplicaciones del CCITT*.
- ISO/CEI 7498-4:1989, *Information Processing Systems – Open Systems Interconnection – Basic Reference Model – Part 4: Management Framework*.

2.3 Referencias adicionales

- Recomendación D.10 del CCITT (1991), *Principios generales de tarificación aplicables a los servicios públicos internacionales de comunicación de datos*.
- Recomendación D.11 del CCITT (1991), *Principios especiales de tarificación aplicables a los servicios públicos internacionales de comunicación de datos con conmutación de paquetes asegurados por medio de la facilidad de llamada virtual*.
- Recomendación D.12 del CCITT (1980), *Unidad de medida para la tasación del volumen de información transmitido en el servicio internacional de comunicación de datos con conmutación de paquetes*.
- Recomendación UIT-T E.164 (1997), *Plan internacional de numeración de telecomunicaciones públicas*.
- Recomendación UIT-T X.2 (1996), *Servicios de transmisión de datos y facilidades facultativas de usuario internacionales en redes públicas de datos y en redes digitales de servicios integrados*.
- Recomendación UIT-T X.25 (1993), *Interfaz entre el equipo terminal de datos y el equipo de terminación del circuito de datos para equipos terminales que funcionan en el modo paquete y están conectados a redes públicas de datos por circuitos especializados*.
- Recomendación UIT-T X.121 (1996), *Plan de numeración internacional para redes públicas de datos*.
- ISO/CEI 8208:1995, *Information technology – Data Communications – X.25 Packet Layer Protocol for Data Terminal Equipment*.
- ISO 8648:1988, *Information processing systems – Open Systems Interconnection – Internal organization of the Network Layer*.
- ISO/CEI 8881:1989, *Information processing systems – Data Communications – Use of the X.25 packet level protocol in local area networks*.
- ISO 9542:1988, *Information processing systems – Telecommunications and information exchange between systems – End system to intermediate system routing exchange protocol for use in conjunction with the protocol for providing the connectionless-mode network service (ISO 8473)*.
- ISO/CEI 10030:1990, *Information technology – Telecommunications and information exchange between systems – End System Routing Information Exchange Protocol for use in conjunction with ISO/CEI 8878*.
- ISO/CEI 10177:1993, *Information technology – Telecommunications and information exchange between systems – Provision of the connection-mode Network internal layer service by intermediate systems using ISO/CEI 8208, the X.25 Packet Layer Protocol*.
- ISO/CEI TR 13532:1995, *Information technology – Telecommunications and information exchange between systems – Protocol combinations to provide and support the OSI Network Service*.

- ISO/CEI 10589:1992, *Information technology – Telecommunications and information exchange between systems – Intermediate system to Intermediate system intra-domain routing information exchange protocol for use in conjunction with the protocol for providing the connectionless-mode network service (ISO 8473)*.

3 Definiciones

A los efectos de esta Recomendación | Norma Internacional se aplican las siguientes definiciones.

3.1 Modelo de referencia básico

En la presente Recomendación | Norma Internacional se utilizan los siguientes términos definidos en el *modelo de referencia de OSI* (véase Rec. UIT-T X.200 | ISO/CEI 7498-1):

- sistema abierto;
- punto de acceso al servicio (N);
- capa de red;
- protocolo de red;
- gestión de capa;
- gestión de sistemas.

3.2 Modelo de información

En la presente Recomendación | Norma Internacional se utilizan los siguientes términos definidos en la *Estructura de la información de gestión: Modelo de información de gestión* (véase Rec. X.720 del CCITT | ISO/CEI 10165-1):

- atributos;
- tipo de atributo;
- contenencia;
- nombre distinguido;
- herencia;
- objeto gestionado;
- operaciones de gestión;
- notificaciones;
- clase de objeto;
- nombre distinguido relativo;
- subclase;
- superclase.

3.3 Directrices para la definición de objetos gestionados (GDMO, *guidelines for the definition of managed objects*)

En la presente Recomendación | Norma Internacional se utilizan los siguientes términos definidos en la *Estructura de la información de gestión: Directrices para la definición de objetos gestionados* (véase Rec. X.722 del CCITT | ISO/CEI 10165-4).

- definición de clase de objeto gestionado;
- plantilla;
- parámetro.

3.4 Marco de gestión

En la presente Recomendación | Norma Internacional se utilizan los siguientes términos definidos en el *Marco de gestión para interconexión de sistemas abiertos* (véase Rec. X.700 del CCITT | ISO/CEI 7498-4).

- información de gestión.

4 Símbolos y abreviaturas

En las definiciones de objetos gestionados y en las plantillas de las directrices para la definición de objetos gestionados se utilizan las siguientes abreviaturas en el elemento de nombre normalizado de un identificador de documento cuando se hace referencia a otros documentos.

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

A los efectos de esta Recomendación | Norma Internacional se aplican los siguientes símbolos y siglas:

BCUG	Grupo cerrado de usuarios bilateral (<i>bilateral closed user group</i>)
CLNP	Protocolo de red en modo sin conexión (<i>connectionless-mode network protocol</i>)
CLNS	Servicio de red en modo sin conexión (<i>connectionless-mode network service</i>)
CMIP	Protocolo de información de gestión común (<i>common management information protocol</i>)
CMIS	Servicio de información de gestión común (<i>common management information service</i>)
CONS	Servicio de red en modo con conexión (<i>connection-mode network service</i>)
CUG	Grupo cerrado de usuarios (<i>closed user group</i>)
ER PDU	Unidad de datos de protocolo de informe de error (<i>error report protocol data unit</i>)
ES	Sistema de extremo (<i>end system</i>)
ESH	Atención al sistema de extremo (<i>end system hello</i>)
IS	Sistema intermedio (<i>intermediate system</i>)
ISH	Atención al sistema intermedio (<i>intermediate system hello</i>)
IVMO	Objeto gestionado con valores iniciales (<i>initial values managed object</i>)
LCN	Número de canal lógico (<i>logical channel number</i>)
MCS	Resumen de conformidad de gestión (<i>management conformance summary</i>)
MICS	Declaración de conformidad de información de gestión (<i>management information conformance statement</i>)
MO	Objeto gestionado (<i>managed object</i>)
MOCS	Declaración de conformidad de objeto gestionado (<i>managed object conformance statement</i>)
MRCS	Declaración de conformidad de relación gestionada (<i>managed relationship conformance statement</i>)
NSAP	Punto de acceso al servicio de red (<i>network service access point</i>)
NSE	Elemento de servicio de red (<i>network service element</i>)
NUI	Identificación de usuario de red (<i>network user identification</i>)
PLE	Entidad de capa de paquete (<i>packet layer entity</i>)
PVC	Circuito virtual permanente (<i>permanent virtual circuit</i>)
RD PDU	Unidad de datos de protocolo de redireccionamiento (<i>redirect protocol data unit</i>)
RDN	Nombre distinguido relativo (<i>relative distinguished name</i>)
SNDCF	Función de convergencia dependiente de subred (<i>subnetwork dependent convergence function</i>)
SNPA	Punto de asociación a subred (<i>subnetwork point of attachment</i>)
VC	Llamada virtual (<i>virtual call</i>)

5 Elementos de información de gestión de capa de red

5.1 Jerarquía de objetos gestionados

5.1.1 Resumen de objetos gestionados

Se define el siguiente conjunto de clases de objetos gestionados para la capa de red de OSI:

- a) objeto gestionado de subsistema de red (véase 5.3);
- b) objeto gestionado de entidad de red (véase 5.4);
- c) objeto gestionado de NSAP (véase 5.5);
- d) objeto gestionado del servicio de red en modo sin conexión (véase 5.6);
- e) objeto gestionado de enlace (véase 5.7);
- f) objeto gestionado del servicio de red en modo con conexión (véase 5.8);
- g) objeto gestionado de conexión de red (véase 5.9);
- h) objeto gestionado de DTE de PLE X.25 (véase 5.10.3);
- i) objeto gestionado de DCE de PLE X.25 (véase 5.10.4);
- j) objeto gestionado con valores iniciales de DTE de PLE X.25 (véase 5.10.5);
- k) objeto gestionado con valores iniciales de DCE de PLE de la interfaz X.25 (véase 5.10.6);
- l) objeto gestionado de DTE de circuito virtual permanente (véase 5.11.4);
- m) objeto gestionado de DCE de circuito virtual permanente (véase 5.11.5);
- n) objeto gestionado con valores iniciales de llamada virtual (véase 5.11.6);
- o) objeto gestionado de DTE de llamada virtual (véase 5.11.7);
- p) objeto gestionado de DCE de llamada virtual (véase 5.11.8);
- q) objeto gestionado de cómputos de las Recomendaciones de la serie D (véase 5.11.9).

Las clases de objetos gestionados que vienen a continuación no se producen nunca; sólo existen a los efectos de derivación de subclases.

- a) objeto gestionado de PLE X.25 (véase 5.10.1);
- b) objeto gestionado con valores iniciales de PLE X.25 (véase 5.10.2);
- c) objeto gestionado de circuito virtual (véase 5.11.1);
- d) objeto gestionado de DTE de circuito virtual (véase 5.11.2);
- e) objeto gestionado de DCE de circuito virtual (véase 5.11.3).

Estos objetos gestionados representan la perspectiva de gestión de OSI, de los elementos de un sistema abierto que admiten el servicio de red de OSI sujeto a las operaciones de gestión de OSI.

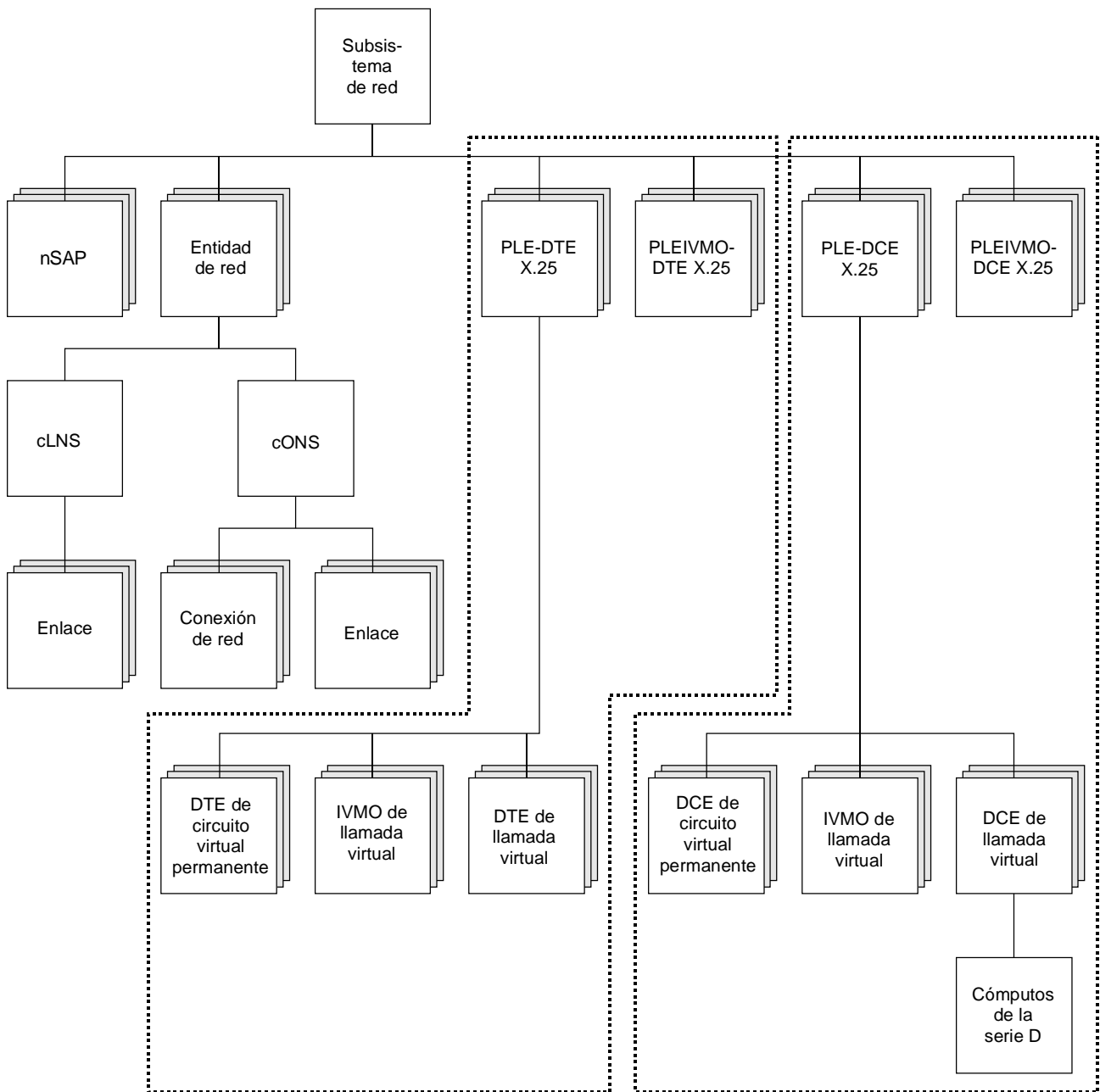
5.1.2 Jerarquía de contención

En la figura 1 se ilustra la jerarquía de contención. Los objetos gestionados de los que puede haber varios ejemplos se ilustran mediante (múltiples) casillas sombreadas. En las subcláusulas que siguen de la presente Recomendación se definen estos objetos en detalle.

El objeto gestionado (MO) `networkSubsystem` (subsistema de red) está subordinado al MO del sistema. El MO de PLE X.25 y los IVMO son ejemplos de lo que se ha denominado objetos gestionados (MO) "SNPA". Los MO "SNPA" son específicos de la subred. Se prevé que en el futuro haya un número adicional de MO "SNPA", por ejemplo, para la RDSI.

El MO "SNPA" se relaciona con el protocolo utilizado para acceder a una subred. Por ejemplo, hay un MO "SNPA" correspondiente a cada entidad de capa de paquete X.25. El MO de cLNS se relaciona con las funciones de los protocolos de CLNS (véanse Rec. UIT-T X.233 | ISO/CEI 8473-1, ISO 9542 e ISO/CEI 10589), que se aplican al funcionamiento general de todo el protocolo en vez de estar relacionados específicamente con puntos de asociación individuales, mientras que el MO de enlace se aplica a las funciones de convergencia dependientes de subred. El MO de cONS y sus MO de enlace asociados son aplicables, de manera similar, a protocolos asociados al CONS (véanse Rec. UIT-T X.223 | ISO/CEI 8878, Rec. X.612 del CCITT | ISO/CEI 9574, ISO/CEI 10030, ISO/CEI 10177, etc.).

Respecto a los requisitos relativos a los MO que se producirán en el árbol de contención para una realización de conforme, véanse las cláusulas aplicables del enunciado de conformidad.



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Figura 1 – Jerarquía de contenencia de capa de red

5.1.3 Relaciones

5.1.3.1 Generalidades

A continuación se describen las relaciones individuales. La utilización de los atributos de relación se ilustra mediante ejemplos en el anexo C.

5.1.3.2 Enlace

Existe una relación entre los MO de enlace [proveedor del servicio de subred (sN-ServiceProvider) y punto de acceso al servicio de subred (sN-SAP) que apuntan al mismo MO] y los MO "SNPA". Por ejemplo, un enlace relacionado con el funcionamiento de la SND CF de la Rec. UIT-T X.233 | ISO/CEI 8473-1 para la Recomendación X.25 tiene una relación con un MO PLE-DTE X.25. Un enlace tiene una relación que identifica sólo un "SNPA", por lo que en el caso de una entidad de red que contiene una máquina de protocolo según la Rec. UIT-T X.233 | ISO/CEI 8473-1 que funciona en

ISO/CEI 10733 : 1998 (S)

varias entidades de capa de red de la Recomendación X.25, habrá un cierto número de MO de enlace, cada uno de ellos relacionado con un MO PLE-DTE X.25 diferente. Sin embargo, aunque un enlace se relaciona con un solo "SNPA", es posible que algunos otros enlaces estén relacionados con el mismo "SNPA"; por ejemplo, puede haber enlaces de cONS y enlaces de cLNS que utilizan el mismo PLE-DTE X.25 y, por consiguiente, el mismo MO "SNPA".

En algunos casos de funcionamiento de la capa de red no existe un protocolo de acceso específico; por ejemplo, la Rec. UIT-T X.233 | ISO/CEI 8473-1 contiene una SNDCEF para utilizarla en el servicio de enlace de datos directamente. En tales casos, el enlace tiene relaciones (sN-ServiceProvider y sN-SAP que apuntan a MO diferentes) no con un "SNPA", sino con los MO apropiados de la capa de enlace de datos.

5.1.3.3 NSAP

Existe una relación nombres de punto de acceso al servicio locales (localSAPNames) entre un MO de entidad de red (networkEntity) y un MO de nSAP. Cada MO de nSAP está relacionado solamente con una entidad de red, aunque una entidad de red puede estar relacionada con varios MO de nSAP.

5.1.3.4 Clientes de la capa n + 1

El MO de nSAP tiene un conjunto de relaciones nombre de entidad de usuario (userEntityName) con clientes de capa n + 1 (típicamente la entidad de capa de transporte). La entidad de capa de transporte tiene una relación NSAP efectivo (actual NSAP) con el MO de nSAP.

5.1.3.5 Servicios de capa n – 1

Tanto los MO de enlace como los PLE X.25 tienen relaciones (sN-ServiceProvider y sN-SAP) con los MO de capa de enlace de datos apropiados.

5.1.3.6 Conexiones

Existe una relación nombres de conexiones subyacentes (underlyingConnectionNames) entre un MO de conexión de transporte (transportConnection) y su MO de conexión de red (networkConnection) subyacente (si existiere) y entre el MO de conexión de red y el MO de DTE de llamada virtual (virtualCall-DTE) subyacente. La relación entre el MO de llamada virtual y cualquier MO de la capa de enlace de datos subyacente está disponible implícitamente como resultado de las relaciones de los MO PLE-DTE X.25 o PLE-DCE X.25 progenitores con la capa de enlace de datos, como se ha descrito más arriba.

Existe además una relación MO de NSAP local (localNSAPMO) entre el MO de conexión de red (networkConnection) y el MO de nSAP correspondiente.

5.1.4 Capacidades mínimas de filtrado de eventos

Las definiciones de gestión de capa de red incorporadas en esta Recomendación | Norma Internacional implican la frecuente y posiblemente excesiva generación de notificaciones durante el funcionamiento regular de las capas. Estas notificaciones resultan especialmente útiles para una gestión de averías eficaz, para la que facilitan el seguimiento y la identificación de situaciones de error. Con el fin de evitar una excesiva difusión de estos informes de eventos en condiciones de funcionamiento normal, se recomienda que el sistema gestionado tenga, como mínimo, la capacidad de discriminar basándose en:

- a) La clase de objeto gestionado de origen.
- b) Los valores de identificador de objeto en el campo de causa probable y problemas específicos de las alarmas de comunicación y las informaciones de comunicación del campo de tipo de comunicación.

5.1.5 Utilización de campos facultativos

Cuando en la presente Recomendación | Norma Internacional se hace referencia a la sintaxis ASN.1 definida en la Rec. UIT-T X.723 | ISO/CEI 10165-5 o en la Rec. X.721 del CCITT | ISO/CEI 10165-2, sólo se utilizarán los siguientes campos:

- a) los que no son OPTIONAL en la sintaxis ASN.1;
- b) los que son OPTIONAL, pero cuya utilización se requiere explícitamente en esta Recomendación | Norma Internacional;
- c) los que son OPTIONAL, pero cuyo tipo ASN.1 es SET OF ManagementExtension.

Se prohíbe la utilización de cualquier otro campo.

5.2 Plantillas de comportamiento común

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) newValue 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 Objeto gestionado de subsistema de red

-- *Managed Object for Network Layer Subsystem*

--

-- *There is exactly one of these MOs within a system. It exists to provide a container for the*

-- *Network Entity MOs, nSAP MOs and the 'SNPA' MOs as described in clause.*

--

-- *The networkSubsystem managed object cannot be created or deleted*

-- *explicitly by management operation. It exists inherently in a system;*

-- *created and deleted as part of system operation.*

networkSubsystem MANAGED OBJECT CLASS

DERIVED FROM "GMI":system;

CHARACTERIZED BY networkSubsystem-P PACKAGE

ATTRIBUTES

"GMI":systemId

INITIAL VALUE NLM.networkSubsystemId-Value

GET;;;

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

-- *Name Bindings*

networkSubsystem-system NAME BINDING

SUBORDINATE OBJECT CLASS networkSubsystem AND SUBCLASSES;

NAMED BY

SUPERIOR OBJECT CLASS "DMI":system AND SUBCLASSES;

WITH ATTRIBUTE "GMI":systemId;

REGISTERED AS { NLM.nboi networkSubsystem-system (1) };

5.4 Objeto gestionado de entidad de red

-- *There may be multiple instances of these MOs within a system.*

-- *Its definition permits it to be deleted and created explicitly by*

-- *management operation, or to be created and deleted automatically*

-- *as part of system operation.*

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) };

-- *Name Bindings*

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) };

-- Attributes

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 Objeto gestionado de NSAP

-- There is one nSAP MO for each set of NSAPs supported by the Network Subsystem
 -- associated with a single Transport layer client.
 -- Each NSAP MO corresponds to a set of one or more NSAPs
 -- supported by the Network Subsystem.
 --
 -- There is not more than one Transport layer client associated with a single nSAP MO,
 -- but there may be more than one nSAP MO, and corresponding sets of NSAPs,
 -- associated with a single Transport layer client.
 -- Its definition permits it to be created and deleted explicitly by
 -- management operation or to be created and deleted automatically as
 -- part of system operation.

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) };

-- *Behaviours*

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.!

-- *Name Bindings*

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 Objeto gestionado de servicio de red en modo sin conexión

-- *There is no more than one of these MOs per network entity.*
 -- *Its definition permits it to be created and deleted explicitly by*
 -- *management operation, but in some systems it will exist inherently*
 -- *and neither creation nor deletion by management operation will be*
 -- *possible. Name bindings are defined for both cases.*

--
 -- *When the protocol machine is operable, the operationalState shall*
 -- *have the value 'enabled'; otherwise it shall have the value 'disabled'.*
 -- *Transitions of operationalState shall be reported using the*
 -- *stateChange notification. A cLNS MO may be created in the*
 -- *'enabled' operational state.*

cLNS MANAGED OBJECT CLASS

DERIVED FROM "GMI":cIProtocolMachine;
 CHARACTERIZED BY cLNS-P PACKAGE
 BEHAVIOUR commonStateChange-B,
 commonCreationDeletion-B;

ATTRIBUTES

"DMI":administrativeState GET-REPLACE,
 "GMI":cIProtocolMachinelId
 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!;

-- The following packages are associated with ISO/IEC 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) };

-- Packages

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) };

-- *Behaviours*

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.!;

-- *Name Bindings*

cLNS-networkEntity-Management NAME BINDING

SUBORDINATE OBJECT CLASS cLNS AND SUBCLASSES;

NAMED BY
SUPERIOR OBJECT CLASS networkEntity AND SUBCLASSES;
WITH ATTRIBUTE "GMI":clProtocolMachinel;
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":clProtocolMachinel;
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) };

-- Attributes

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.!;;

-- NOTE – This counter is therefore a count of the number of

-- communicationsAlarm notifications with a specificProblem value of

-- pDUDiscard generated (as opposed to CMIP events,

-- may be suppressed) as required by GDMO subclause 9.8.5 (SC21 N4852).

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) };

-- Parameters

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 Objeto gestionado de enlace

-- Linkage Managed Object
 --
 -- There is one of these MOs associated with each separate provision
 -- of the underlying service to the superior protocol machine.
 -- Its definition permits it to be created and deleted explicitly by
 -- management operation, but in some systems it will exist inherently
 -- and neither creation nor deletion by management operation will be
 -- possible. Name bindings are defined for both cases.
 --
 -- When the linkage is operable, the operationalState shall
 -- have the value 'enabled'; otherwise it shall have the value 'disabled'.
 -- Transitions of operationalState shall be reported using the
 -- stateChange notification. A linkage MO may be created in the
 -- 'enabled' operational state.

linkage MANAGED OBJECT CLASS
 DERIVED FROM "DMI":top;
 CHARACTERIZED BY linkage-P PACKAGE
 BEHAVIOUR commonCreationDeletion-B,
 commonStateChange-B;
 ATTRIBUTES
 linkageld 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 8473-1SND CF 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
 SND CF 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!;

-- The following packages are associated with ISO/IEC 10589

"ISO/IEC 10589":linkageSISBasic-P

PRESENT IF !the system is an ISO 10589 IS!;

"ISO/IEC 10589":linkageSISAuthentication-P

PRESENT IF !the authentication procedures are implemented
 on an ISO 10589 IS!;

"ISO/IEC 10589":linkageSISBroadcast-P

PRESENT IF !the linkage is a broadcast circuit
 on an ISO 10589 IS!;

"ISO/IEC 10589":linkageSISDACallEstablishmentMetricIncrement-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":linkageSISPtToPt-P

PRESENT IF !the linkage is a point to point circuit
 on an ISO 10589 IS!;

"ISO/IEC 10589":linkageSISStatic-P

PRESENT IF !the linkage is an X.25 static circuit (IN or OUT)
 on an ISO 10589 IS!;

"ISO/IEC 10589":linkageSISLevel2-P

PRESENT IF !the system is an ISO/IEC 10589 level 2 IS!;

"ISO/IEC 10589":linkageSISlevel2Broadcast-P

PRESENT IF !the linkage is a broadcast circuit on an ISO 10589 level 2 IS!;

REGISTERED AS { NLM.moi linkage (23) };

-- Packages

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.!;;

ATTRIBUTEScallsPlaced 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.!;;

ATTRIBUTESenableChecksum 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) };

-- *Behaviours*

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.!

-- Name Bindings

linkage-cLNS-Management NAME BINDING

SUBORDINATE OBJECT CLASS linkage AND SUBCLASSES;
NAMED BY
SUPERIOR OBJECT CLASS cLNS AND SUBCLASSES;
WITH ATTRIBUTE linkageld;

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 linkageld;

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 linkageld;

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 linkageld;
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) };

-- *Attributes*

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 – This counter is therefore a count of the number of

-- communicationsAlarm notifications with a specificProblem value of

-- NLM.iSO9542PDUDiscard generated.

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) };

-- Parameters

reachabilityChange PARAMETER

CONTEXT EVENT-INFO;

WITH SYNTAX NLM.ReachabilityChangeSyntax;

REGISTERED AS { NLM.proi reachabilityChange (12) };

5.8 Objeto gestionado de servicio de red en modo con conexión

- There is no more than one of these MOs per network entity.
- Its definition permits it to be created and deleted explicitly by management operation, but in some systems it will exist inherently and neither creation nor deletion by management operation will be possible. Name bindings are defined for both cases.
-
- When the protocol machine is operable, the operationalState shall have the value 'enabled'; otherwise it shall have the value 'disabled'.
- Transitions of operationalState shall be reported using the stateChange notification. A cONS MO may be created in the 'enabled' operational state.

cONS MANAGED OBJECT CLASS

```

DERIVED FROM "GMI":coProtocolMachine;
CHARACTERIZED BY cONS-P PACKAGE
BEHAVIOUR commonStateChange-B,
commonCreationDeletion-B;
ATTRIBUTES
  "DMI":administrativeState GET-REPLACE,
  "GMI":coProtocolMachineld
    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) };
```

```
-- Name Bindings
```

cONS-networkEntity-Management NAME BINDING

```

SUBORDINATE OBJECT CLASS cONS AND SUBCLASSES;
NAMED BY
  SUPERIOR OBJECT CLASS networkEntity AND SUBCLASSES;
  WITH ATTRIBUTE "GMI":coProtocolMachineld;
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":coProtocolMachineld;
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 Objeto gestionado de conexión de red

- There is one instance of this MO corresponding to each network connection. It is created and deleted by the operation of the protocol machine.
-
- In some configurations the underlyingConnectionNames attribute may contain more than one distinguished name. In this case, the type of the underlying MO (and hence the particular underlying resource) can only be determined by inspection of the MO pointed to by this distinguished name.

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) };

-- Name Bindings

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) };

-- Attributes

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 PLE X.25 y objetos gestionados conexos

5.10.1 Objeto gestionado de PLE X.25

-- This MO class is never instantiated. It serves as a generic
 -- x25PLE MO from which both the x25PLE-DTE and x25PLE-DCE MO
 -- classes are derived.
 --
 -- Note that the values of the x25PLEId naming attribute are
 -- required to be unique across all instances of MOs derived from
 -- this, which have a common superior.

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,
 defaultWindowSizees 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 Objeto gestionado con valores iniciales de PLE X.25

-- This MO class is never instantiated. It serves as a generic
 -- x25PLE IVMO from which both the x25PLEIVMO-DTE and x25PLEIVMO-DCE
 -- MO classes are derived.
 --
 -- Note that the values of the x25PLEIVMOId naming attribute are
 -- required to be unique across all instances of MOs derived from
 -- this, which have a common superior.

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,

x25PLEIVMOld GET,

x25PLEMode GET-REPLACE;

NOTIFICATIONS

"DMI":objectCreation,

"DMI":objectDeletion;

;;

REGISTERED AS { NLM.moi x25PLEIVMO (26) };

5.10.3 Objeto gestionado de DTE PLE X.25

- *There may be multiple instances of these MOs within a system,*
- *corresponding to Multiple X.25 PLEs.*
-
- *The definition of this MO*
- *permits it to be created and deleted explicitly by*
- *management operation or to be created and deleted automatically as*
- *part of system operation. When an instance of this MO*
- *is created automatically, an instance of the*
- *x25PLEIVMO-DTE may be used as the source*
- *of the initial values for attributes of this MO.*
-
- *When the x25 PLE is operable, the operationalState shall*
- *have the value 'enabled'; otherwise it shall have the value 'disabled'.*
- *Transitions of operationalState shall be reported using the*
- *stateChange notification.*

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 Objeto gestionado de DCE de PLE X.25

- There may be multiple instances of these MOs within a system,
- corresponding to Multiple X.25 PLEs.
-
- The definition of this MO
- permits it to be created and deleted explicitly by
- management operation or to be created and deleted automatically as
- part of system operation. When an instance of this MO
- is created automatically, an instance of the
- x25PLEIVMO-DCE may be used as the source
- of the initial values for attributes of this MO.
-
- When the x25 PLE is operable, the operationalState shall
- have the value 'enabled'; otherwise it shall have the value 'disabled'.
- Transitions of operationalState shall be reported using the
- stateChange notification.

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 Objeto gestionado con valores iniciales de DTE de PLE X.25

- *There may be multiple instances of the x25PLEIVMO-DTE in a system.*
- *An x25PLEIVMO-DTE may be used to supply initial*
- *values for the attributes of the x25PLE-DTE MO.*
- *Different instances of x25PLEIVMO-DTE may contain different initial values.*
-
- *Its definition permits it to be created and deleted explicitly by*
- *management operation.*

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 Objeto gestionado con valores iniciales de DCE de PLE X.25

```

-- There may be multiple instances of the x25PLEIVMO-DCE in a system.
-- An x25PLEIVMO-DCE may be used to supply initial
-- values for the attributes of the x25PLE-DCE MO.
-- Different instances of x25PLEIVMO-DCE may contain different initial values.
--
-- Its definition permits it to be created and deleted explicitly by
-- management operation.

```

x25PLEIVMO-DCE MANAGED OBJECT CLASS

```

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

```

-- Packages

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,
nonStandardDefaultWindowSize REPLACE-WITH-DEFAULT
GET-REPLACE,
nUIOverride REPLACE-WITH-DEFAULT
GET-REPLACE,
nUISubscription REPLACE-WITH-DEFAULT
GET-REPLACE,
oneWayLogicalChannellIncoming 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,
 -- *T13 timer.*
 incomingCall GET-REPLACE,
 -- *T11 timer.*
 resetIndication GET-REPLACE,
 -- *T12 timer.*
 restartIndication GET-REPLACE;
 -- *T10 timer.*

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,
 -- *Note that the DMI definition is in terms of user data octets.*
 "DMI":octetsSentCounter GET,
 -- *Note that the DMI definition is in terms of user data octets.*
 callTimeouts GET,
 callsConnected GET,
 clearCountsExceeded GET,
 clearTimeouts GET,
 dataPacketsReceived GET,
 dataPacketsSent GET,
 -- *Note that the "DMI":PDUsSentCounter*
 -- *cannot be used here since it is defined as total number of PDUs sent,*
 -- *not just data PDUs.*
 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) };

-- Behaviours

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 communication sAlarm, 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.

!;

-- Name Bindings

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) };

-- *Attributes*

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) };

nonStandardDefaultWindowSizees ATTRIBUTE

WITH ATTRIBUTE SYNTAX NLM.NonStandardDWS;

MATCHES FOR EQUALITY;

BEHAVIOUR nonStandardDefaultWindowSizees-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 nonStandardDefaultWindowSizees (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) };

oneWayLogicalChannellncoming ATTRIBUTE

WITH ATTRIBUTE SYNTAX NLM.Boolean;

MATCHES FOR EQUALITY;

BEHAVIOUR oneWayLogicalChannellncoming-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 oneWayLogicalChannellncoming (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) };

-- Parameters

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 Circuito virtual y objetos gestionados conexos

5.11.1 Objeto gestionado de circuito virtual

-- This MO Class is never instantiated. It serves as a generic Virtual Circuit MO from which both the
-- Virtual Circuit DTE and Virtual Circuit DCE MOs are derived.
-- Note that the values of the virtualCircuitId naming attribute are
-- required to be unique across all instances of MOs derived from this
-- which have a common superior.

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 Objeto gestionado de DTE de circuito virtual

-- This MO Class is never instantiated. It serves as a generic Virtual Circuit DTE MO from which both the
-- Virtual Call DTE and the Permanent Virtual Circuit DTE MOs are derived.
-- Note that the values of the virtualCircuitId naming attribute are
-- required to be unique across all instances of MOs derived from this
-- which have a common superior.

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 Objeto gestionado de DCE de circuito virtual

- This MO Class is never instantiated. It serves as a generic Virtual Circuit DCE MO from which both the
- Virtual Call DCE and the Permanent Virtual Circuit DCE MOs are derived.
- Note that the values of the virtualCircuitId naming attribute are
- required to be unique across all instances of MOs derived from this
- which have a common superior.

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 Objeto gestionado de DTE de circuito virtual permanente

- An instance of this MO exists for each Permanent Virtual Circuit.
- It may be both created and deleted by management.

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 optionalCMPIV-B,
 throughputClasses INITIAL VALUE DERIVATION RULE optionalCMPIV-B,
 windowSizes INITIAL VALUE DERIVATION RULE optionalCMPIV-B;
 ;;
 REGISTERED AS { NLM.moi permanentVirtualCircuit-DTE (19) };

5.11.5 Objeto gestionado de DCE de circuito virtual permanente

- An instance of this MO exists for each Permanent Virtual Circuit. It may be both created and
- deleted by management.

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 optionalCMPIV-B,
throughputClasses INITIAL VALUE DERIVATION RULE optionalCMPIV-B,
windowSizes INITIAL VALUE DERIVATION RULE optionalCMPIV-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 Objeto gestionado con valores iniciales de llamada virtual

- There may be multiple instances of the virtualCallIVMO in a system.
- A virtualCallIVMO may be used to supply initial
- values for the attributes of the virtualCall-DTE or virtualCall-DCE MO.
- Different instances of virtualCallIVMO may contain different initial values.
-
- Its definition permits it to be created and deleted explicitly by
- management operation.

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 Objeto gestionado de DTE con llamada virtual

- An instance of this MO exists for each Virtual Call. It is not created by
- management, but by the operation of the protocol state machine.
- An existing instance may, however, be deactivated by management action,
- which will cause the associated VC to be cleared.
-
- An instance of this MO is created and exists as long as real resources
- are consumed by the existence of the virtual call. It is an implementation

- matter to determine the point during call establishment when real
- resources are consumed, and conversely, when during call clearing,
- when they are released.

```

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 Objeto gestionado de DCE con llamada virtual

- An instance of this MO is created and exists as long as real resources are consumed by the existence
- of the Virtual Call. It is an implementation matter to determine the point during a call establishment
- when real resources are consumed, and conversely, when during call clearing, when they are released.

```

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 Objetos gestionados de cómputos de las Recomendaciones de la serie D

- There is one instance of this MO created by management action or
- automatically for each instance of a virtual call where the Tariff
- Principles applying to Data Communications Services over dedicated
- Public Data Networks are applicable. The provisions of the tariff
- principles are defined in Recommendations D.10, D.11 and D.12.

```

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) };

-- Packages

dTEVirtualCircuitCounters-P PACKAGE

BEHAVIOUR

octetsSentReceivedCounter-B;

ATTRIBUTES

"DMI":octetsSentCounter GET,
-- Note that the DMI definition is in terms of user data octets.
"DMI":octetsReceivedCounter GET,
-- Note that the DMI definition is in terms of user data octets.

dataPacketsReceived GET,

dataPacketsSent GET,

-- Note the "DMI":PDUsSentCounter
-- cannot be used here since it is defined as total number of PDUs sent,
-- not just data PDUs.

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) };

-- *Behaviours*

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.!

-- *Name Bindings*

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)** };

-- *Attributes*

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**;
 -- *In the OSI context this will always be an NSAP address but in other uses*
 -- *it may not. In any case it may be null, for example, when used by ITU-T Rec. X.233 | ISO/IEC 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**;
 -- *In the OSI context this will always be an NSAP address but in other uses*
 -- *it may not. In any case it may be null, for example, when used by ITU-T Rec. X.233 | ISO/IEC 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;

-- Enumerated(Incoming, Outgoing)

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;

-- Enumerated(Not Specified, Fast Select, Fast Select With Restricted Response, No Fast Select)

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;
 -- 12 bit Channel ID

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 Módulos ASN.1

```
NLM { joint-iso-ccitt network-layer (13) management (0) nLM(2) asn1Module (2) 0 }
DEFINITIONS IMPLICIT TAGS ::= BEGIN
-- EXPORTS everything --
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 Definiciones de identificadores de objetos

6.1.1 Abreviaturas

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 Otras definiciones de identificadores de objetos

-- value assignments for 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 ::= { ssei specificProblems(3) iSO9542PDUDiscard(2) }
-- for communication information notification

iSReachabilityChange OBJECT IDENTIFIER ::= { ssei informationtype(4) iSReachabilityChange(1) }
eSReachabilityChange OBJECT IDENTIFIER ::= { ssei informationtype(4) eSReachabilityChange(2) }
successfulConnectionEstablishment OBJECT IDENTIFIER ::= { ssei informationtype(4) successfulConnectionEstablishment (3) }
-- for SNPAAddress type

sNPADTEAddress OBJECT IDENTIFIER ::= { ssei sNPAAAddressType(5) dTEAddress(1) }
sNPAMACAddress OBJECT IDENTIFIER ::= { ssei sNPAAAddressType(5) mACAddress(2) }

6.2 Otras definiciones

BidirectionalValues ::= SEQUENCE { incoming [0] ChoiceInteger, outgoing [1] ChoiceInteger }

Boolean ::= BOOLEAN

callRequestResponseTimerDefault INTEGER ::= 200

ChoiceInteger ::= CHOICE { dontCare [0] IMPLICIT NULL, -- The 'I don't care' value -- integer [1] IMPLICIT INTEGER }

clearRequestRetransmissionCountDefault INTEGER ::= 1
clearRequestResponseTimerDefault INTEGER ::= 180

cLNSId-Value GraphicString ::= "CLNS"
cONSIId-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)
-- Note that according to ISO/IEC 8208 or ITU-T Rec. X.25 a value of 65535 indicates that the delay is -- unknown or exceeds 65534 milliseconds.

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))
 -- up to 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,
 supportedWindowSizees [1] SET OF INTEGER OPTIONAL,
 selectedWindowSizees [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 } -- Down only
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))
-- each numeric string limited to 4 decimal digits
-- an empty sequence is permitted
SDUSize ::= INTEGER (0..65535)
SNPAddress ::= 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 Conformidad

Las implementaciones que aleguen conformidad con la presente Recomendación | Norma Internacional deberán cumplir los requisitos de conformidad definidos en las subcláusulas siguientes.

7.1 Requisitos de conformidad con la presente Recomendación | Norma Internacional

7.1.1 Conformidad estática

La implementación se conformará a los requisitos de la presente Recomendación | Norma Internacional en la función de gestor, la función de agente o ambas funciones. Una alegación de conformidad con al menos una función se efectuará en el cuadro D.1.

Si una alegación de conformidad se efectúa para apoyar la función de gestor, la implementación sustentará por lo menos una operación o notificación o acción de gestión de los objetos gestionados especificados en la presente Recomendación | Norma Internacional. Los requisitos de conformidad en la función de gestor para las operaciones, notificaciones y acciones de gestión se identifican en el cuadro D.3 y otros cuadros referenciados en el anexo D.

Si una alegación de conformidad se efectúa para el sustento en la función de agente, la implementación sustentará una o varias ocurrencias de la clase de objeto gestionado de subsistema de red identificados en el cuadro D.4 y otros cuadros referenciados en el anexo D.

Si una alegación de conformidad se efectúa para el sustento en la función de agente, la implementación sustentará por lo menos una vinculación de nombre identificada en el cuadro D.7 para cada objeto gestionado sustentado.

La implementación sustentará la sintaxis de transferencia derivada de las reglas de codificación especificadas en la Rec. del CCITT X.209 | ISO/CEI 8825 denominada {joint-iso-ccitt asn1(1) basicEncoding(1)} para los tipos de datos abstractos referenciados por las definiciones para las cuales se alega sustentación.

7.1.2 Conformidad dinámica

Las implementaciones que aleguen conformidad con la presente Recomendación | Norma Internacional sustentarán los elementos de procedimiento y las definiciones de semántica correspondientes a las definiciones para las cuales se alega sustentación.

7.1.3 Requisitos de la declaración de conformidad de implementación de gestión

Cualquier formulario de MCS, formulario de MICS, formulario de MOCS y formulario de MRCS que sea conforme a la presente Recomendación | Norma Internacional será técnicamente idéntico a los formularios especificados en los anexos D, E, F y G, manteniéndose la numeración de los cuadros y la numeración de los puntos en el índice, y siendo diferente únicamente la paginación y los encabezamientos de página.

El proveedor de una implementación que alegue conformidad con la presente Recomendación completará un ejemplar del resumen de conformidad de gestión (MCS) proporcionado en el anexo D como parte de los requisitos de conformidad, junto con cualesquiera otros formularios de ICS considerados aplicables en ese MCS. Cualquier MCS, MICS, MOCS y MRCS que sea conforme a la presente Recomendación | Norma Internacional:

- describirá una implementación que sea conforme a la presente Recomendación | Norma Internacional;
- será completado conforme a las instrucciones de la Rec. UIT-T X.724 | ISO/CEI 10165-6;
- comprenderá la información necesaria para identificar unívocamente el proveedor y la implementación.

7.2 Requisitos de conformidad específicos del protocolo

El proveedor de una implementación que alegue conformidad con la presente Recomendación | Norma Internacional sustentará por lo menos un protocolo identificado en el cuadro D.2.

7.2.1 Conformidad con el CLNS

Una implementación que alegue conformidad con el CLNS en el cometido de agente como una implementación gestionada deberá:

- a) ser conforme a la Rec. UIT-T X.283 | ISO/CEI 10733 según se indica en 7.1;
- b) admitir el MO de entidad de red, el MO de CLNS, el MO de NSAP y el MO de enlace.

7.2.2 Conformidad con el CONS

Una implementación que alegue conformidad con el CONS en el cometido de agente como una implementación gestionada deberá:

- a) ser conforme a la Rec. UIT-T X.283 | ISO/CEI 10733 según se indica en 7.1;
- b) admitir el MO de entidad de red, el MO de CONS, el MO de NSAP, el MO de conexión de red y el MO de enlace.

7.2.3 Conformidad con el DTE X.25

Una implementación que alegue conformidad con el DTE X.25 en el cometido de agente como una implementación gestionada deberá:

- a) ser conforme a la Rec. UIT-T X.283 | ISO/CEI 10733 según se indica en 7.1;
- b) admitir el MO DTE PLE X.25 y por lo menos una clase derivada del DTE de circuito virtual.

7.2.4 Conformidad con el DCE X.25

Una implementación que alegue conformidad con el DCE X.25 en el cometido de agente como una implementación gestionada deberá:

- a) ser conforme a la Rec. UIT-T X.283 | ISO/CEI 10733 según se indica en 7.1;
- b) admitir el MO DCE PLE X.25 y por lo menos una clase derivada del DCE de circuito virtual.

Anexo A

Asignación de identificadores de objetos

(Este anexo es parte integrante de esta Recomendación | Norma Internacional)

En la presente Recomendación | Norma Internacional se han asignado los siguientes identificadores de objetos. No se han reasignado los identificadores de objetos que fueron asignados cuando el equivalente a esta Recomendación | Norma Internacional estaba en la etapa de proyecto. Si se ha efectuado alguna modificación, distinta de un cambio de la cláusula de comportamiento, en cualquier plantilla a la que se había asignado un identificador de objeto, se ha asignado a la nueva plantilla un nuevo identificador de objeto y no se ha reutilizado el identificador de objeto antiguo: [identificado como: *obsolete (1)* (obsoleto) (1)].

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)****iSO9542PDUDiscard (2)****informationtype (4)****iSReachabilityChange (1)****eSReachabilityChange (2)****successfulConnectionEstablishment (3)****sNPAAAddressType (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)

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

obsolete (8)
obsolete (9)
obsolete (10)
obsolete (11)
 reachabilityChange (12)
 nameBinding (6)
 networkSubsystem-system (1)
 obsolete (2)
 cLNS-networkEntity-Management (3)
 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)
 cLNS-networkEntity-Automatic (16)
 cONS-networkEntity-Automatic (17)
 x25PLE-networkSubsystem-Automatic (18)
 networkConnection-cONS (19)
 linkage-cLNS-Management (20)
 linkage-cONS-Management (21)
 linkage-cLNS-Automatic (22)
 linkage-cONS-Automatic (23)
 virtualCall-DTE-x25PLE-DTE (24)
 virtualCallIVMO-x25PLE (25)
 permanentVirtualCircuit-DTE-x25PLE-DTE (26)
 networkEntity-networkSubsystem-Automatic (27)
 networkEntity-networkSubsystem-Management (28)
 permanentVirtualCircuit-DCE-x25PLE-DCE (29)
 virtualCall-DCE-x25PLE-DCE-Automatic (30)
 virtualCall-DCE-x25PLE-DCE-Management (31)
 dSeriesCounts-virtualCall-DCE-Automatic (32)
 dSeriesCounts-virtualCall-DCE-Management (33)
 attribute (7)
 obsolete (1)
 obsolete (2)
 networkEntityTitles (3)
 enableChecksum (4)
 obsolete (5)
 segmentsReceived (6)
 segmentsDiscarded (7)
 assemblingSegmentsDiscarded (8)
 errorReportsReceived (9)
 pDUDiscards (10)
 congestionDiscards (11)
 obsolete (12)
 obsolete (13)
 obsolete (14)
 obsolete (15)
 obsolete (16)
 linkageId (17)
 sN-SAP (18)
 sN-ServiceProvider (19)
 holdingTimerMultiplier (20)
 defaultESConfigTimer (21)
 activeESConfigTimer (22)
 iSReachabilityChanges (23)
 iSConfigurationTimer (24)
 suggestedESConfigurationTimer (25)
 redirectHoldingTime (26)
 eSReachabilityChanges (27)

manualISSNPAAddress (28)
 callsPlaced (29)
 callsFailed (30)
 idleTimer (31)
 reserveTimer (32)
 initialMinimumTimer (33)
obsolete (34)
obsolete (35)
 x25PLEId (36)
 x25PLEIVMOld (37)
 protocolVersionSupported (38)
 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)
 localNSAPMO (106)
 remoteNSAPAddress (107)
 systemTypes (108)
 operationalSystemType (109)
 supportedProtocols (110)
 operationalProtocols (111)
 defaultThroughputClasses (112)
obsolete (113)
 callDeflectionSubscription (114)
 iSO9542OperationalSubsets (115)
 virtualCircuitId (116)
 virtualCallIVMOld (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

Anexo B

Descripción abreviada de objetos gestionados

(Este anexo es parte integrante de esta Recomendación | Norma Internacional)

La información que figura en este anexo sólo tiene por objeto esbozar ampliamente la especificación de gestión de la capa de red. Aunque esta información se ha obtenido del texto normativo de las directrices para la definición de objetos gestionados en la parte principal de la presente Recomendación | Norma Internacional, debe tratarse con cautela, pues puede haber errores.

Se utilizan las siguientes abreviaturas para describir las listas de propiedades de atributos.

G	Obtener (<i>get</i>)
R	Reemplazar (<i>replace</i>)
RWD	Reemplazar con valor por defecto (<i>replace with default</i>)
A	Añadir (<i>add</i>)
RM	Eliminar (<i>remove</i>)

Se utilizan las siguientes abreviaturas para las referencias de etiquetas externas:

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

Los tipos de plantilla con un sufijo "*" (por ejemplo, ATTRIBUTE*) hacen referencia a tipos de plantilla definidos en lotes condicionales. Todas las plantillas heredadas, salvo las heredadas de "top" (tope), se incluyen en cada una de las clases de objeto gestionado.

En la figura B.1 se ilustra la jerarquía de herencia.

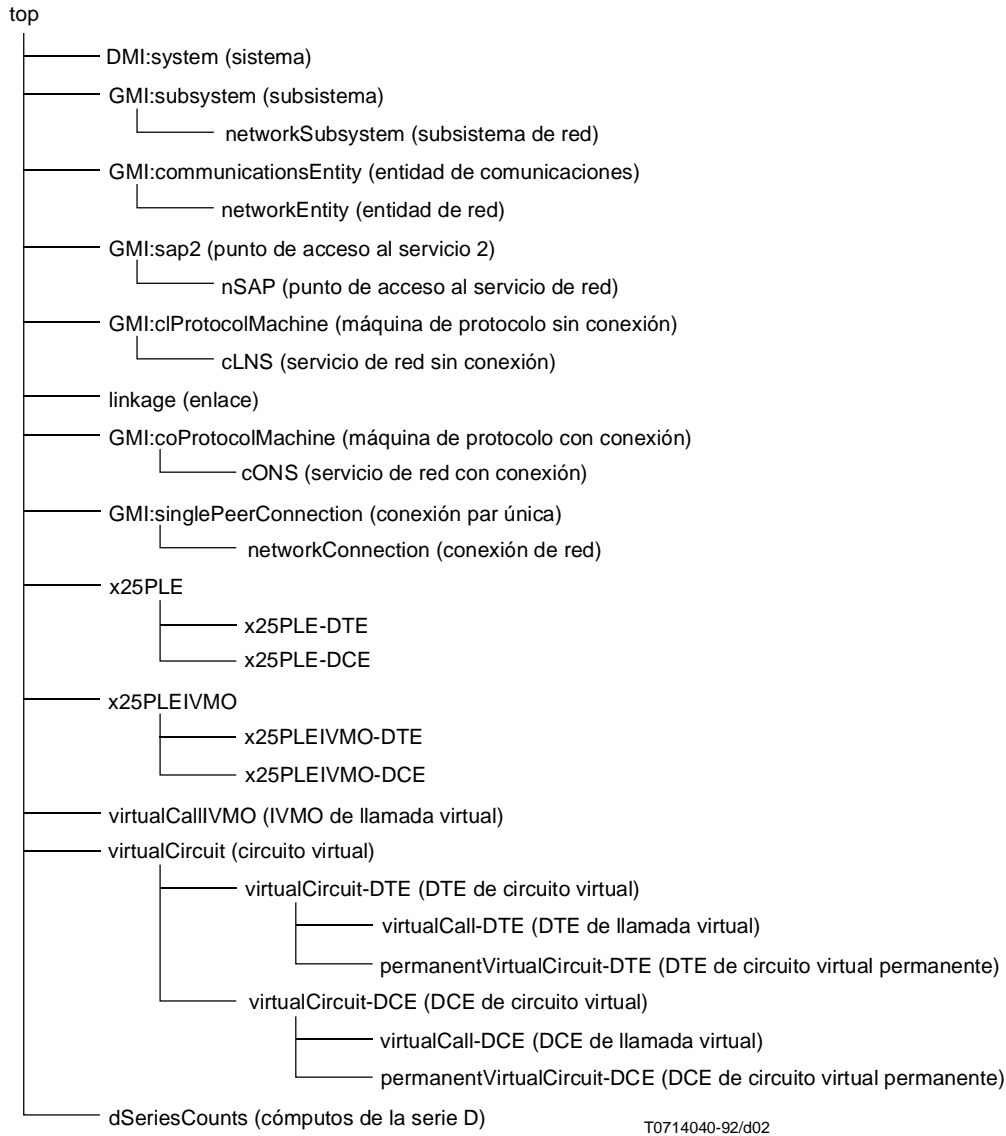


Figura B.1 – Jerarquía de herencia de la capa de red

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:clProtocolMachinelid 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 Systems
 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
manualSNPAAddress ATTRIBUTE* (G, R, RWD, A, RM)
 The set of SNPA Addresses to which calls associated with the SND CF are to be 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
 x25PLEIVMOld 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
 x25PLEIVMOld 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

Anexo C

Ejemplos de utilización de atributos de relación

(Este anexo es parte integrante de esta Recomendación | Norma Internacional)

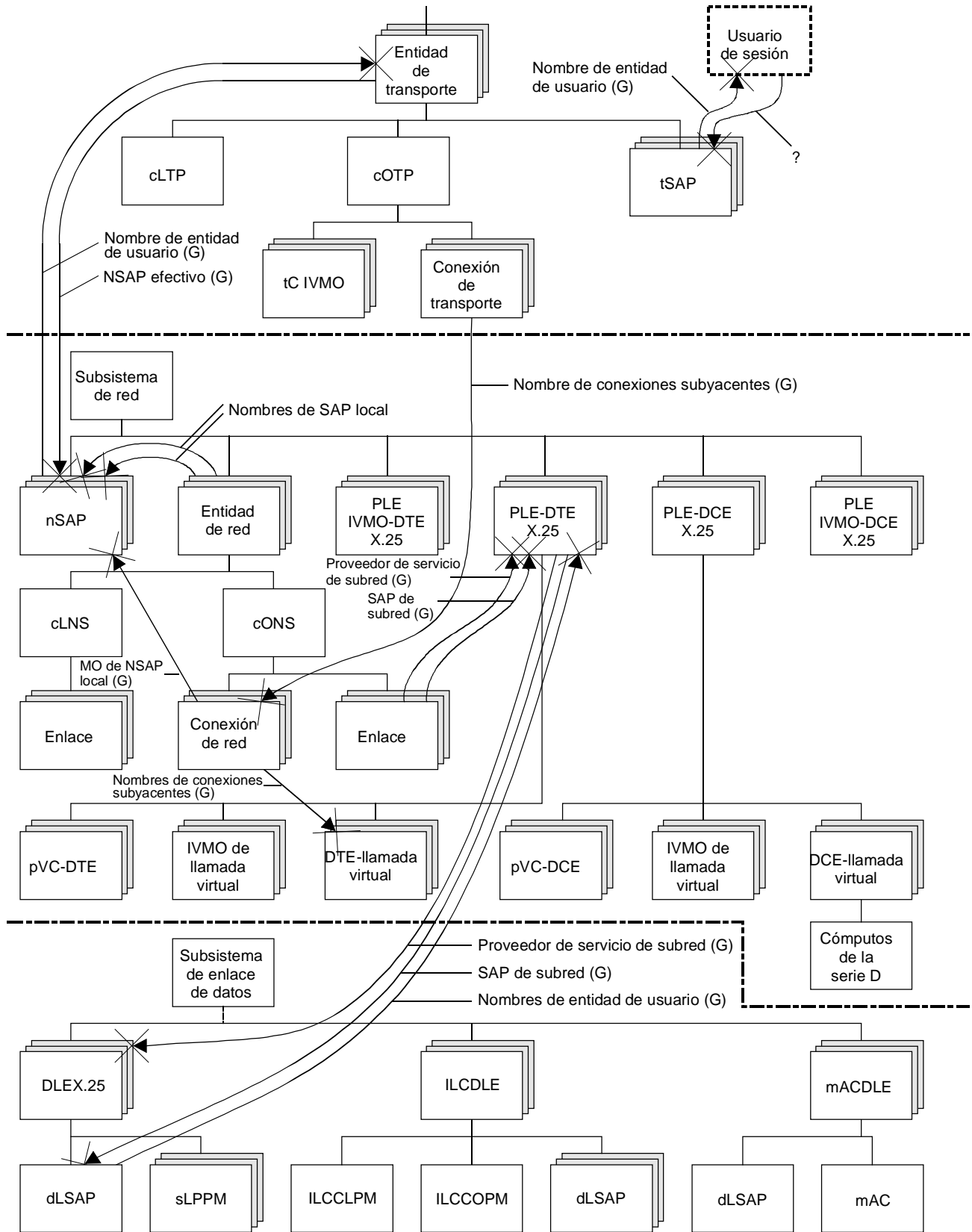
En el presente anexo se dan ejemplos de la utilización de atributos de relación, dentro de la capa de red y también entre la capa de red y sus capas adyacentes. Los ejemplos no pretenden ser exhaustivos. Se puede construir relaciones de manera similar para otras combinaciones de protocolos y una realización particular puede ser capaz de admitir múltiples protocolos simultáneamente. Por ejemplo, conexiones de transporte por el servicio de red con conexión al mismo tiempo que conexiones de transporte por el servicio de red sin conexión. Tales posibilidades se han omitido únicamente por motivos de claridad.

Para ilustrar la utilización de relaciones de capas transversales ha sido necesario incluir diagramas que representen los objetos gestionados de capa de transporte y de capa de enlace de datos en las figuras C.1 a C.3. No obstante, su finalidad es puramente ilustrativa, por lo que deberán consultarse las Recomendaciones | Normas Internacionales relativas a la gestión de la capa pertinente para obtener detalles precisos respecto a estos objetos gestionados.

Se señala que algunas de las relaciones están implicadas por contención y, por consiguiente, no se requieren atributos de relación explícitos. Por ejemplo, no hay relación entre un MO de llamada virtual y un MO de conexión de procedimiento monoenlace subyacente. Esta relación puede deducirse del atributo de proveedor de servicio de subred (sN-ServiceProvider) del MO de PLE X.25 progenitor. Otro ejemplo es la relación entre el MO de punto de acceso al servicio de transporte y su MO de entidad de transporte progenitor.

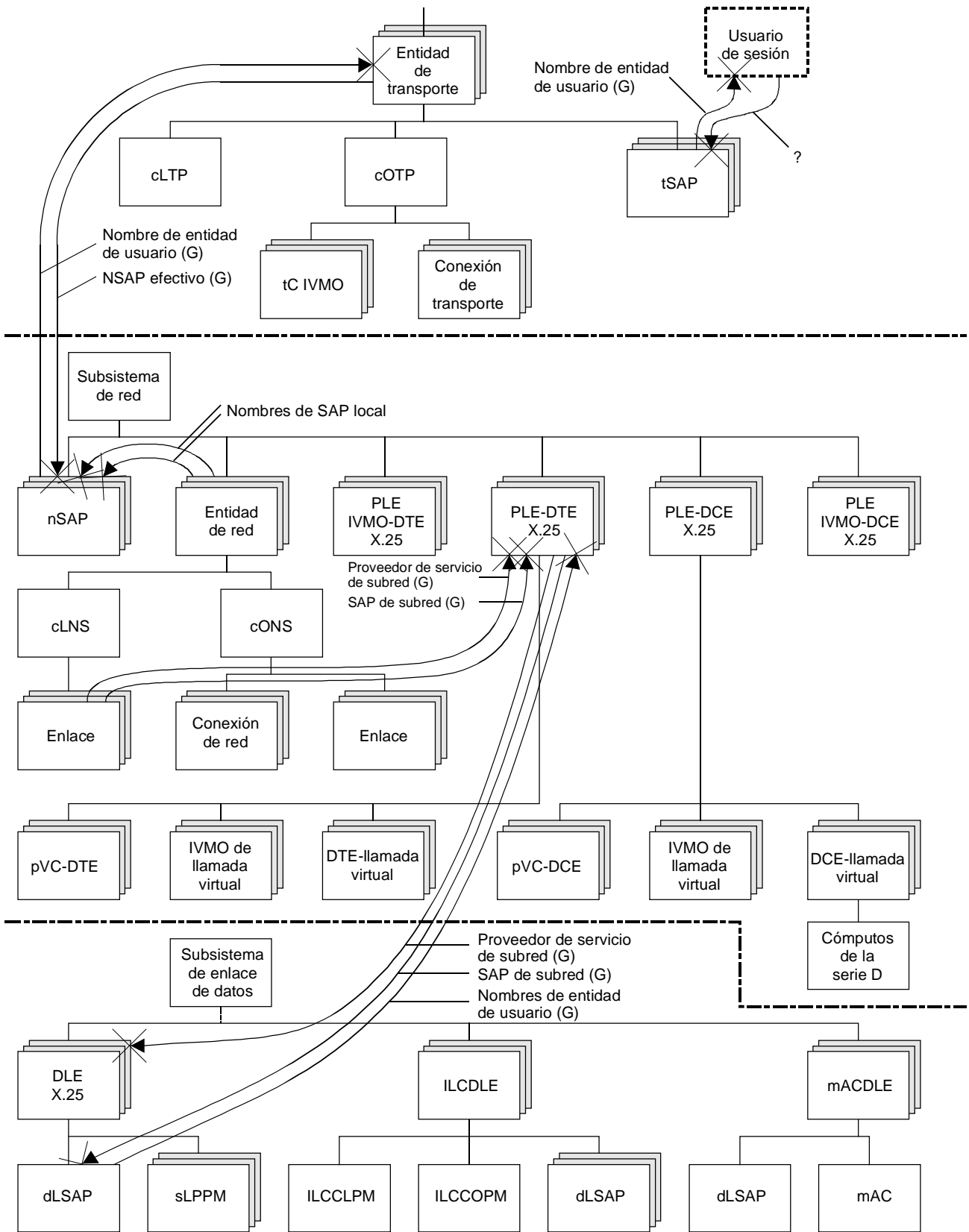
Los ejemplos son los siguientes:

- Figura C.1 – COTP en el CONS por la interfaz X.25.
- Figura C.2 – COTP en el CLNS por la interfaz X.25. Se señala que cuando se funciona en el CLNS, el atributo de nombres de conexiones subyacentes (underlyingConnectionNames) de la conexión de transporte tiene un valor del conjunto vacío. Se señala además que cuando un enlace está funcionando en un MO "SNPA" dentro de la capa de red, en vez de funcionar directamente por la capa de enlace de datos, los atributos de relación de proveedor del servicio de subred (sN-ServiceProvider) y de enlace de punto de acceso al servicio de subred (sN-SAP), apuntan al mismo MO dentro de la capa de red.
- Figura C.3 – COTP en el CLNS de CSMA/CD.



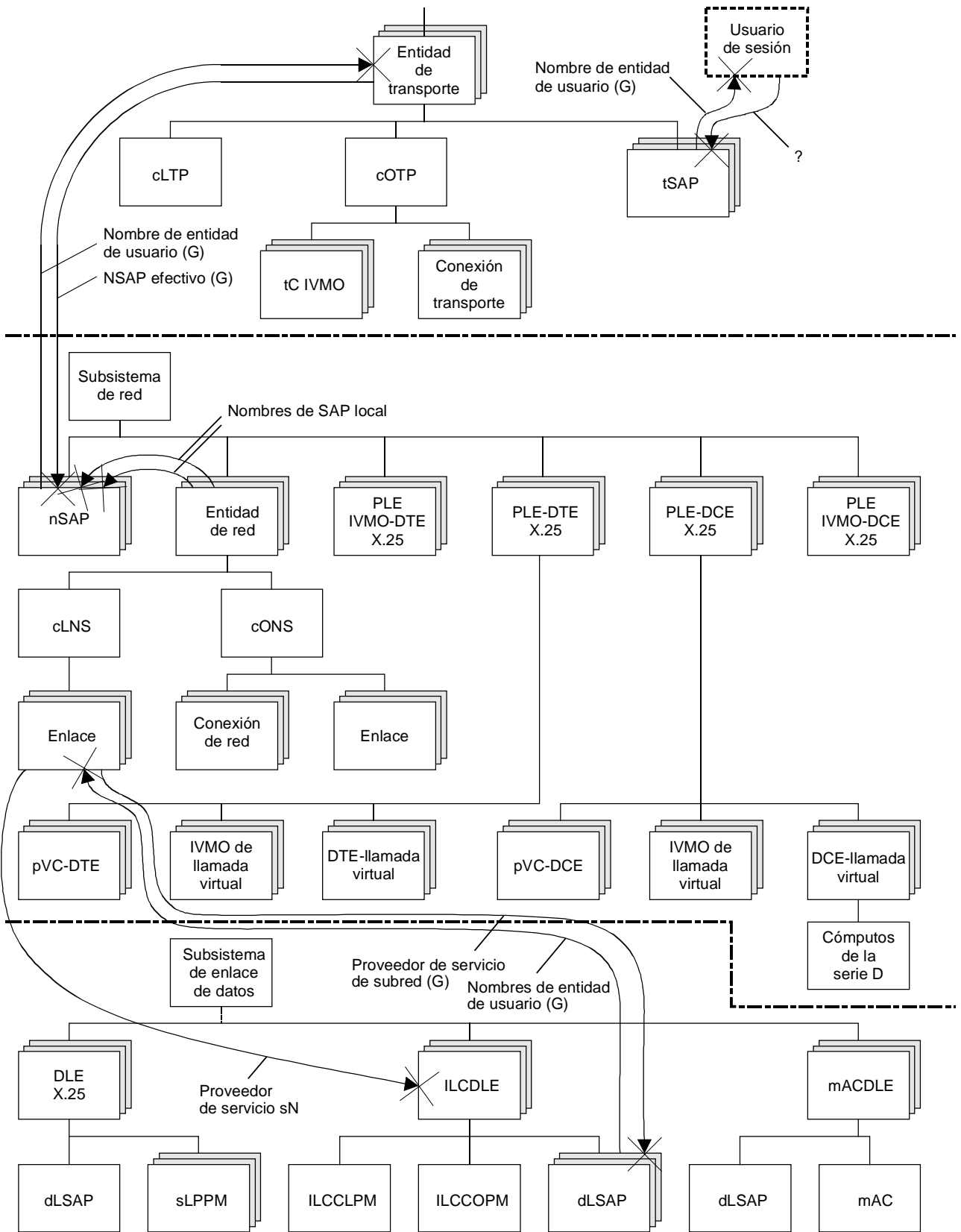
T0714050-92/d03

Figura C.1 – COTP en el CONS por la interfaz X.25



T0714060-92/d04

Figura C.2 – COTP en el CLNS por la interfaz X.25



T0714070-92/d05

Figura C.3 – COTP en el CLNS de CSMA/CD

Anexo D¹⁾

Formulario de MCS

(Este anexo es parte integrante de esta Recomendación | Norma Internacional)

D.1 Introduction

D.1.1 Purpose and structure

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

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

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

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

D.1.3 Symbols, abbreviations and terms

For all annexes of this 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⁾ Comunicado sobre derechos de autor del formulario de MCS

Los usuarios de esta Recomendación | Norma Internacional pueden reproducir libremente el formulario de MCS de este anexo a fin de que pueda ser utilizado para los fines previstos, y pueden además publicar el MCS cumplimentado.

²⁾ En la Rec. UIT-T X.724 | ISO/CEI 10165-6 se especifican las instrucciones para rellenar el formulario de MCS.

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	Item	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	Additional information
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	Additional information
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	Additional information
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	Additional information
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 –								

Anexo E³⁾**Formulario de MICS**

(Este anexo es parte integrante de esta Recomendación | Norma Internacional)

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 MICS⁴⁾

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.

³⁾ **Comunicado sobre derechos de autor del formulario de MICS**

Los usuarios de esta Recomendación | Norma Internacional pueden reproducir libremente el formulario de MICS de este anexo a fin de que pueda ser utilizado para los fines previstos, y pueden además publicar el MICS cumplimentado.

⁴⁾ En la Rec. UIT-T X.724 | ISO/CEI 10165-6 se especifican las instrucciones para rellenar el formulario de MICS.

Table E.1 – cLNS Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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”: completeSNPIInterval	{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)

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	
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”: ISPL2DatabaseOverloads	{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)

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	
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)

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	
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”: partialSNPIInterval	{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”: partitionDesignatedL2Inter mediateSystem	{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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	activeESConfigTimer	{2 13 0 2 7 22}	SEQUENCE	–		o.1		–		–		–		–		
2	“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)

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
14	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)

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	
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)

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	
49	“ISO/IEC 10589:1992”: maximumAreaAddressesMis matches	{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	suggestedESConfigurationTi mer	{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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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)

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
14	“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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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)

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	
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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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)

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	
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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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	defaultWindowSizees	{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)

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	
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)

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	
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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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	defaultWindowSizees	{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)

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	
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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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)

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	
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	x25PLEIVMOld	{2 13 0 2 7 37}	GraphicString	o.1		o.1		–		–		–		–		
34	x25PLEMode	{2 13 0 2 7 120}	ENUMERATED	o.1		o.1		o.1		–		–		–		

E.4.2 Attribute groups

The specifier of a manager role implementation that claims to support management operations on the attribute groups specified in this 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

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	“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

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	“CCITT Rec. X.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

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	“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

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	“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

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	“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

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	“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

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	“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

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	“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

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	“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

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	“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

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non con- firmed								
1	"CCITT Rec. X.721 (1992) ISO/IEC 10165-2:1992": communicationsAlarm	{2 9 3 2 10 2}		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 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- 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 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								
								1.1.13	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 template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non con- firmed								
3	“CCITT Rec. X.721 (1992) ISO/IEC 10165-2:1992”: objectDeletion	{2 9 3 2 10 7}		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 template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non con- firmed								
								4.1.3.3	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	sourceObjectInstance	–	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		
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 –						

Anexo F⁵⁾

Formulario de MOCS

(Este anexo es parte integrante de esta Recomendación | Norma Internacional)

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 MOCS⁶⁾

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⁾ Comunicado sobre derechos de autor del formulario de MOCS

Los usuarios de esta Recomendación | Norma Internacional pueden reproducir libremente el formulario de MOCS de este anexo a fin de que pueda ser utilizado para los fines previstos, y pueden además publicar el MOCS cumplimentado.

⁶⁾ En la Rec. UIT-T X.724 | ISO/CEI 10165-6 se especifican las instrucciones para rellenar el formulario de MOCS.

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”: cLNSISISAuthenti- cation-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”: cLNSISISPartitionRe- pair-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”: cLNSISISLevel2Au- thentication-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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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)

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	
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”: ISPL1DatabaseOverloads	{2 13 0 1 7 20}	INTEGER	c7		c8		c9		–		–		c9		
23	“ISO/IEC 10589:1992”: ISPL2DatabaseOverloads	{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)

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	
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”: minimumBroadcastLSPT ransmissionInterval	{2 13 0 1 7 7}	INTEGER	c16		c8		c8		–		–		c9		
33	“ISO/IEC 10589:1992”: minimumLSPGenerationIn terval	{2 13 0 1 7 11}	INTEGER	c16		c8		c8		–		–		c9		
34	“ISO/IEC 10589:1992”: minimumLSPTransmissionIn terval	{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)

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	
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”: partialSNPIInterval	{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”: partitionDesignatedL2In termediateSystem	{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)

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	
59	“ISO/IEC 10589:1992”: waitingTime	{2 13 0 1 7 15}	INTEGER	c16		c8		c8		–		–		c9		
<p>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 –</p>																

F.2.4 Attribute group

See Table F.5.

Table F.5 – cLNS Attribute group support

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	“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		
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

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non-con- firmed								
1	"CCITT Rec. X.721 (1992) ISO/IEC 10165-2:1992": communicationsAlarm	{2 9 3 2 10 2}		m			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	correlatedNo tifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								1.1.9.2	sourceObjec tInst	–	ObjectInstance	c:o		
								1.1.10	stateChang eDefinition	{2 9 3 2 7 28}	SET OF SEQUENCE	o		
								1.1.10.1	attributeID	–	AttributeId	c:m		
								1.1.10.2	oldAttribut eValue	–	ANY DEFINED BY attributeID	c:o		
								1.1.10.3	newAttribut eValue	–	ANY DEFINED BY attributeID	c:m		
								1.1.11	monitoredAt tributes	{2 9 3 2 7 15}	SET OF Attribute	o		
								1.1.12	proposedRe pairActions	{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	additionalTe xt	{2 9 3 2 7 7}	GraphicString	o		
								1.1.14	additionalIn formation	{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)

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information	
					Con- firmed	Non-con- firmed									
2	"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		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	correlatedNo tifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								3.1.4.1	correlatedNo tifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								3.1.4.2	sourceObjec tInst	–	ObjectInstance	c:o		
								3.1.5	additionalTe xt	{2 9 3 2 7 7}	GraphicString	o		
								3.1.6	additionalIn formation	{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	sourceIn dicator	{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	notificationId entifier	{2 9 3 2 7 16}	INTEGER	o		
								4.1.4	correlatedNo tifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								4.1.4.1	correlatedNo tifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		

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								
								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		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								
								5.1.5	correlatedNo tifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								5.1.5.1	correlatedNo tifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								5.1.5.2	sourceObjec tInst	–	ObjectInstance	c:o		
								5.1.6	additionalTe xt	{2 9 3 2 7 7}	GraphicString	o		
								5.1.7	additionalIn formation	{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”: notificationOverflowStateChange	{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 I		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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	“CCITT Rec. X.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		
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

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non-con- firmed								
1	"CCITT Rec. X.721 (1992) ISO/IEC 10165-2:1992": objectCreation	{2 9 3 2 10 6}		m				1.1	ObjectInfo		Information Syntax SEQUENCE	m		
								1.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								1.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								1.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								1.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								1.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								1.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								1.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								1.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								1.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								1.1.6.2	significance	–	BOOLEAN	c:o		
								1.1.6.3	information	–	ANY DEFINED BY identifier	c:m		

Table F.15 (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								
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		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.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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	“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

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non-con- firmed								
1	"CCITT Rec. X.721 (1992) ISO/IEC 10165-2:1992": objectCreation	{2 9 3 2 10 6}		m				1.1	ObjectInfo		Information Syntax SEQUENCE	m		
								1.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								1.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								1.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								1.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								1.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								1.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								1.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								1.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								1.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								1.1.6.2	significance	–	BOOLEAN	c:o		
1.1.6.3	information	–	ANY DEFINED BY identifier	c:m										

Table F.21 (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								
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": linkageISISDialEstablishmentMetricIncrement-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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	activeESConfigTimer	{2 13 0 2 7 22}	SEQUENCE	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)

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	
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)

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	
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)

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	
49	“ISO/IEC 10589: 1992”: maximumAreaAddressesMi smatches	{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	suggestedESConfigurationTi mer	{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)

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		
																	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)

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		
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

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	“ITU-T Rec. X.723 (1993) ISO/IEC 10165-5:1994”: counters	{2 9 3 5 8 0}	“ISO/IEC 10589:1992”: lanL2DesignatedInter mediateSystemChanges	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		
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

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

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								
								1.1.7.2	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		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information	
					Con- firmed	Non-con- firmed									
2	"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	correlatedNo tifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								3.1.4.1	correlatedNo tifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								3.1.4.2	sourceObjec tInst	–	ObjectInstance	c:o		
								3.1.5	additionalTe xt	{2 9 3 2 7 7}	GraphicString	o		
								3.1.6	additionalIn formation	{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	sourceIn dicator	{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	notificationId entifier	{2 9 3 2 7 16}	INTEGER	o		
								4.1.4	correlatedNo tifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								4.1.4.1	correlatedNo tifications	{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								
								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		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								
								5.1.5.1	correlatedNo tifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								5.1.5.2	sourceObjec tInst	–	ObjectInstance	c:o		
								5.1.6	additionalTe xt	{2 9 3 2 7 7}	GraphicString	o		
								5.1.7	additionalIn formation	{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 neighbourSNPAAAddress	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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non-con- firmed								
1	"CCITT Rec. X.721 (1992) ISO/IEC 10165-2:1992": objectCreation	{2 9 3 2 10 6}		m				1.1	ObjectInfo		Information Syntax SEQUENCE	m		
								1.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								1.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								1.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								1.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								1.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								1.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								1.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								1.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								1.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								1.1.6.2	significance	–	BOOLEAN	c:o		
								1.1.6.3	information	–	ANY DEFINED BY identifier	c:m		

Table F.34 (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								
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”: singlePeerCon nectionP1		Mandatory	m		
6	“ITU-T Rec. X.723 (1993) ISO/IEC 10165-5:1994”: singlePeerCon nectionP2	{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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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	OBJECT 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

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non-con- firmed								
1	"ITU-T Rec. X.723 (1993) ISO/IEC 10165-5:1994": communicationsInformation	{2 9 3 5 10 0}		m				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		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non-con- firmed								
								2.1.5	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”: communicationsEntityP1		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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non-con- firmed								
1	"CCITT Rec. X.721 (1992) ISO/IEC 10165-2:1992": objectCreation	{2 9 3 2 10 6}		m				1.1	ObjectInfo		Information Syntax SEQUENCE	m		
								1.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								1.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								1.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								1.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								1.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								1.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								1.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								1.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								1.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								1.1.6.2	significance	–	BOOLEAN	c:o		
								1.1.6.3	information	–	ANY DEFINED BY identifier	c:m		

Table F.45 (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								
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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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)

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	
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

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	“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

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non-con- firmed								
1	"CCITT Rec. X.721 (1992) ISO/IEC 10165-2:1992": objectCreation	{2 9 3 2 10 6}		m				1.1	ObjectInfo		Information Syntax SEQUENCE	m		
								1.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								1.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								1.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								1.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								1.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								1.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								1.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								1.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								1.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								1.1.6.2	significance	–	BOOLEAN	c:o		
								1.1.6.3	information	–	ANY DEFINED BY identifier	c:m		

Table F.55 (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								
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.

Recommendation X.283/Amd.1 (10/96)

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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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)

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
14	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

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	“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

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non-con- firmed								
1	"CCITT Rec. X.721 (1992) ISO/IEC 10165-2:1992": objectCreation	{2 9 3 2 10 6}		m				1.1	ObjectInfo		Information Syntax SEQUENCE	m		
								1.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								1.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								1.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								1.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								1.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								1.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								1.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								1.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								1.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								1.1.6.2	significance	–	BOOLEAN	c:o		
								1.1.6.3	information	–	ANY DEFINED BY identifier	c:m		

Table F.61 (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								
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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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	calledLineAddressModificationNotification	{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)

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	“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

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	“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

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non-con- firmed								
1	"ITU-T Rec. X.723 (1993) ISO/IEC 10165-5:1994": communicationsInformation	{2 9 3 5 10 0}		m				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		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non-con- firmed								
								2.1.5	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	dTEVirtualCircuitCo unters-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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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)

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	
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

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	“ITU-T Rec. X.723 (1993) ISO/IEC 10165-5:1994” counters	{2 9 3 5 8 0}	dataPacketsReceived dataPacketsSent dataRetransmissionTime rExpiries 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

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non-con- firmed								
1	"ITU-T Rec. X.723 (1993) ISO/IEC 10165-5:1994": communicationsInformation	{2 9 3 5 10 0}		m				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)

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information								
					Con- firmed	Non-con- firmed																
								2.1.5	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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non-con- firmed								
1	"CCITT Rec. X.721 (1992) ISO/IEC 10165-2:1992": objectCreation	{2 9 3 2 10 6}		m				1.1	ObjectInfo		Information Syntax SEQUENCE	m		
								1.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								1.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								1.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								1.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								1.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								1.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								1.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								1.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								1.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								1.1.6.2	significance	–	BOOLEAN	c:o		
1.1.6.3	information	–	ANY DEFINED BY identifier	c:m										

Table F.80 (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								
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 dCECommonVirtualCircuitCounters 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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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)

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	
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	nonStandardDefaultWindowSize	{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)

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	
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

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	“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 providerInitiatedDiscon nects 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

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non-con- firmed								
1	"CCITT Rec. X.721 (1992) ISO/IEC 10165-2:1992": objectCreation	{2 9 3 2 10 6}		m				1.1	ObjectInfo		Information Syntax SEQUENCE	m		
								1.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								1.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								1.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								1.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								1.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								1.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								1.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								1.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								1.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								1.1.6.2	significance	–	BOOLEAN	c:o		
								1.1.6.3	information	–	ANY DEFINED BY identifier	c:m		

Table F.87 (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								
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	sourceIndi cator	{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	notificationId entifier	{2 9 3 2 7 16}	INTEGER	o		
								2.1.4	correlatedNo tifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								2.1.4.1	correlatedNo tifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								2.1.4.2	sourceObjec tInst	–	ObjectInstance	c:o		
								2.1.5	additionalTe xt	{2 9 3 2 7 7}	GraphicString	o		
								2.1.6	additionalIn formation	{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 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	StateChang eInfo		Information Syntax SEQUENCE	m		
								3.1.1	sourceIndi cator	{2 9 3 2 7 26}	ENUMERATED	o		
								3.1.2	attributeId entifierList	{2 9 3 2 7 8}	SET OF AttributeId	o		
								3.1.3	stateChang eDefinition	{2 9 3 2 7 28}	SET OF SEQUENCE	m		
								3.1.3.1	attributeID	–	AttributeId	m		
								3.1.3.2	oldAttribut eValue	–	ANY DEFINED BY attributeID	o		
								3.1.3.3	newAttribut eValue	–	ANY DEFINED BY attributeID	m		
								3.1.4	notificationId entifier	{2 9 3 2 7 16}	INTEGER	o		
								3.1.5	correlatedNo tifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								3.1.5.1	correlatedNo tifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								3.1.5.2	sourceObjec tInst	–	ObjectInstance	c:o		
								3.1.6	additionalTe xt	{2 9 3 2 7 7}	GraphicString	o		
								3.1.7	additionalIn formation	{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	receivingWindowRotationRecoveryProcedures-P	{2 13 0 2 4 12}	“The optional window rotation recovery procedures are implemented at a receiving DTE”	o		
8	transmittingWindowRotationRecoveryProcedures-P	{2 13 0 2 4 13}	“The optional window rotation recovery procedures are implemented at a transmitting DTE”	o		
9	packetRetransmissionProcedures-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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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	dataRetransmissionTimerExpires	{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)

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	
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)

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	
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: if 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

Index	Attribute group template label	Value of object identifier for attribute group	Constraints and values	Get		Set to default		Additional information
				Status	Support	Status	Support	
1	“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

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information	
					Con- firmed	Non-con- firmed									
1	"CCITT Rec. X.721 (1992) ISO/IEC 10165-2:1992": communicationsAlarm	{2 9 3 2 10 2}		m			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 template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non-con- firmed								
								1.1.7.3	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 template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non-con- firmed								
								1.1.12	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		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non-con- firmed								
								2.1.6.1	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 template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non-con- firmed								
4	"CCITT Rec. X.721 (1992) ISO/IEC 10165-2:1992": stateChange	{2 9 3 2 10 14}		m				4.1	StateChang eInfo		Information Syntax SEQUENCE	m		
								4.1.1	sourceIndi cator	{2 9 3 2 7 26}	ENUMERATED	o		
								4.1.2	attributeId entifierList	{2 9 3 2 7 8}	SET OF AttributeId	o		
								4.1.3	stateChang eDefinition	{2 9 3 2 7 28}	SET OF SEQUENCE	m		
								4.1.3.1	attributeID	–	AttributeId	m		
								4.1.3.2	oldAttribut eValue	–	ANY DEFINED BY attributeID	o		
								4.1.3.3	newAttribut eValue	–	ANY DEFINED BY attributeID	m		
								4.1.4	notificationId entifier	{2 9 3 2 7 16}	INTEGER	o		
								4.1.5	correlatedNo tifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								4.1.5.1	correlatedNo tifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								4.1.5.2	sourceObjec tInst	–	ObjectInstance	c:o		
								4.1.6	additionalTe xt	{2 9 3 2 7 7}	GraphicString	o		
								4.1.7	additionalIn formation	{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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non-con- firmed								
1	"CCITT Rec. X.721 (1992) ISO/IEC 10165-2:1992": objectCreation	{2 9 3 2 10 6}		m				1.1	ObjectInfo		Information Syntax SEQUENCE	m		
								1.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								1.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								1.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								1.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								1.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								1.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								1.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								1.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								1.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								1.1.6.2	significance	–	BOOLEAN	c:o		
								1.1.6.3	information	–	ANY DEFINED BY identifier	c:m		

Table F.100 (concluded)

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								
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	sourceIndi cator	{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	notificationId entifier	{2 9 3 2 7 16}	INTEGER	o		
								2.1.4	correlatedNo tifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								2.1.4.1	correlatedNo tifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								2.1.4.2	sourceObjec tInst	–	ObjectInstance	c:o		
								2.1.5	additionalTe xt	{2 9 3 2 7 7}	GraphicString	o		
								2.1.6	additionalIn formation	{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

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by create		Get		Replace		Add		Remove		Set to default		Additional information
				Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	Status	Support	
1	“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	defaultWindowSizees	{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)

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	
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	x25PLEIVMOld	{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

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
					Con- firmed	Non-con- firmed								
1	"CCITT Rec. X.721 (1992) ISO/IEC 10165-2:1992": objectCreation	{2 9 3 2 10 6}		m				1.1	ObjectInfo		Information Syntax SEQUENCE	m		
								1.1.1	sourceIndicator	{2 9 3 2 7 26}	ENUMERATED	o		
								1.1.2	attributeList	{2 9 3 2 7 9}	SET OF Attribute	o		
								1.1.3	notificationIdentifier	{2 9 3 2 7 16}	INTEGER	o		
								1.1.4	correlatedNotifications	{2 9 3 2 7 12}	SET OF SEQUENCE	o		
								1.1.4.1	correlatedNotifications	{2 9 3 2 7 12}	SET OF INTEGER	c:m		
								1.1.4.2	sourceObjectInst	–	ObjectInstance	c:o		
								1.1.5	additionalText	{2 9 3 2 7 7}	GraphicString	o		
								1.1.6	additionalInformation	{2 9 3 2 7 6}	SET OF SEQUENCE	o		
								1.1.6.1	identifier	–	OBJECT IDENTIFIER	c:m		
								1.1.6.2	significance	–	BOOLEAN	c:o		
								1.1.6.3	information	–	ANY DEFINED BY identifier	c:m		

Table F.105 (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								
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		

Anexo G⁷⁾**Formulario de MRCS para vinculación de nombres**

(Este anexo es parte integrante de esta Recomendación | Norma Internacional)

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 MRCS⁸⁾

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

⁷⁾ **Comunicado sobre derechos de autor del formulario de MRCS**

Los usuarios de esta Recomendación | Norma Internacional pueden reproducir libremente el formulario de MRCS de este anexo a fin de que pueda ser utilizado para los fines previstos, y pueden además publicar el MRCS cumplimentado.

⁸⁾ En la cláusula 5 de la Rec. UIT-T X.724 | ISO/CEI 10165-6 se especifican las instrucciones para rellenar el formulario de MRCS.

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”: clProtocolMachin e-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": coProtocolMachin e-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)

cfscfscIndex	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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