UNIÓN INTERNACIONAL DE TELECOMUNICACIONES

UIT-T Q.824.1

SECTOR DE NORMALIZACIÓN
DE LAS TELECOMUNICACIONES
DE LA UIT

(10/95)

ESPECIFICACIONES DEL SISTEMA DE SEÑALIZACIÓN N.° 7

DESCRIPCIÓN DE LAS ETAPAS 2 Y 3 DE LA INTERFAZ Q3 – ADMINISTRACIÓN DE CLIENTES – ACCESO A VELOCIDAD BÁSICA Y PRIMARIA A LA RED DIGITAL DE SERVICIOS INTEGRADOS

Recomendación UIT-T Q.824.1

(Anteriormente «Recomendación del CCITT»)

PREFACIO

El UIT-T (Sector de Normalización de las Telecomunicaciones) es un órgano permanente de la Unión Internacional de Telecomunicaciones (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.° 1 de la CMNT (Helsinki, 1 al 12 de marzo de 1993).

La Recomendación UIT-T Q.824.1 ha sido preparada por la Comisión de Estudio 11 (1993-1996) del UIT-T y fue aprobada por el procedimiento de la Resolución N.° 1 de la CMNT el 17 de octubre de 1995.

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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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RESUMEN

La finalidad de esta Recomendación es proporcionar las descripciones de las etapas 2 y 3 de la interfaz Q3 entre una central local y la red de gestión de las telecomunicaciones (RGT) para sustentar las funciones de gestión de configuración en apoyo de la administración de clientes del acceso a velocidad básica y primaria de la RDSI. La administración de clientes es una actividad de gestión que el operador de red efectúa para intercambiar con el cliente todos los datos y funciones de gestión relacionados con éste, requeridos para ofrecer un servicio de telecomunicaciones, y para intercambiar con la red todos los datos y funciones de gestión relacionados con el cliente necesarios para que la red produzca ese servicio de telecomunicaciones. Esta Recomendación, que es parte integrante de una serie de Recomendaciones, trata de la administración de la configuración de cliente por la RGT en la central local. En esta Recomendación se definen objetos gestionados específicos de la tecnología de acceso a velocidad básica y primaria de la RDSI.

Recomendación Q.824.1

DESCRIPCION DE LAS ETAPAS 2 Y 3 DE LA INTERFAZ Q3 – ADMINISTRACION DE CLIENTES – ACCESO A VELOCIDAD BASICA Y PRIMARIA A LA RED DIGITAL DE SERVICIOS INTEGRADOS

(Ginebra, 1995)

1 Introducción

1.1 Finalidad y alcance

La administración de clientes es una actividad de gestión que el operador de red efectúa para intercambiar con el cliente todos los datos y funciones de gestión relacionados con éste, requeridos para ofrecer un servicio de telecomunicaciones y para intercambiar con la red todos los datos y funciones de gestión relacionados con el cliente necesarios para que la red produzca ese servicio de telecomunicaciones.

La finalidad de esta Recomendación es proporcionar la descripción de las etapas 2 y 3 específicas de la tecnología de la RDSI de la interfaz Q3 entre una central local y la red de gestión de las telecomunicaciones (RGT) para sustentar las funciones de gestión de configuración.

La interfaz Q3 es la interfaz RGT entre elementos de red o adaptadores Q que interconectan con sistemas de operaciones (OS, *operation systems*) sin mediación y entre los OS y los dispositivos de mediación, como se describe en la Recomendación M.3100.

1.2 Referencias

La presente Recomendación está basada en la descripción del servicio de gestión de la etapa 1 que figura en las Recomendaciones de la serie M.3000, incluida la Recomendación M.3400. Esta Recomendación proporciona las descripciones de las etapas 2 y 3 para tratar la administración de clientes para la tecnología de la RDSI basada en las descripciones de capacidades de servicio de la RDSI proporcionadas en las Recomendaciones de las series I.200, I.210, I.220 e I.230, y basadas en las descripciones de las etapas 2 y 3 comunes que figuran en la Recomendación Q.824.0. El modelo de información proporcionado por esta Recomendación se puede utilizar para la administración de clientes por una interfaz Q3 o por la interfaz usuario-red de la RDSI como se describe en la Recomendación Q.942.

1.3 Aplicación

La información de gestión incluida en esta Recomendación puede ser intercambiada por realizaciones del elemento de servicio de información de gestión común (CMISE, *common management information service element*). En esta Recomendación se sustenta la clase de aplicaciones OAM&P (operación, administración, mantenimiento y suministro) para transacciones definiendo clases de objeto, sus atributos y sus relaciones. Las series de protocolos figuran en las Recomendaciones Q.811 y Q.812. No se definen requisitos especiales.

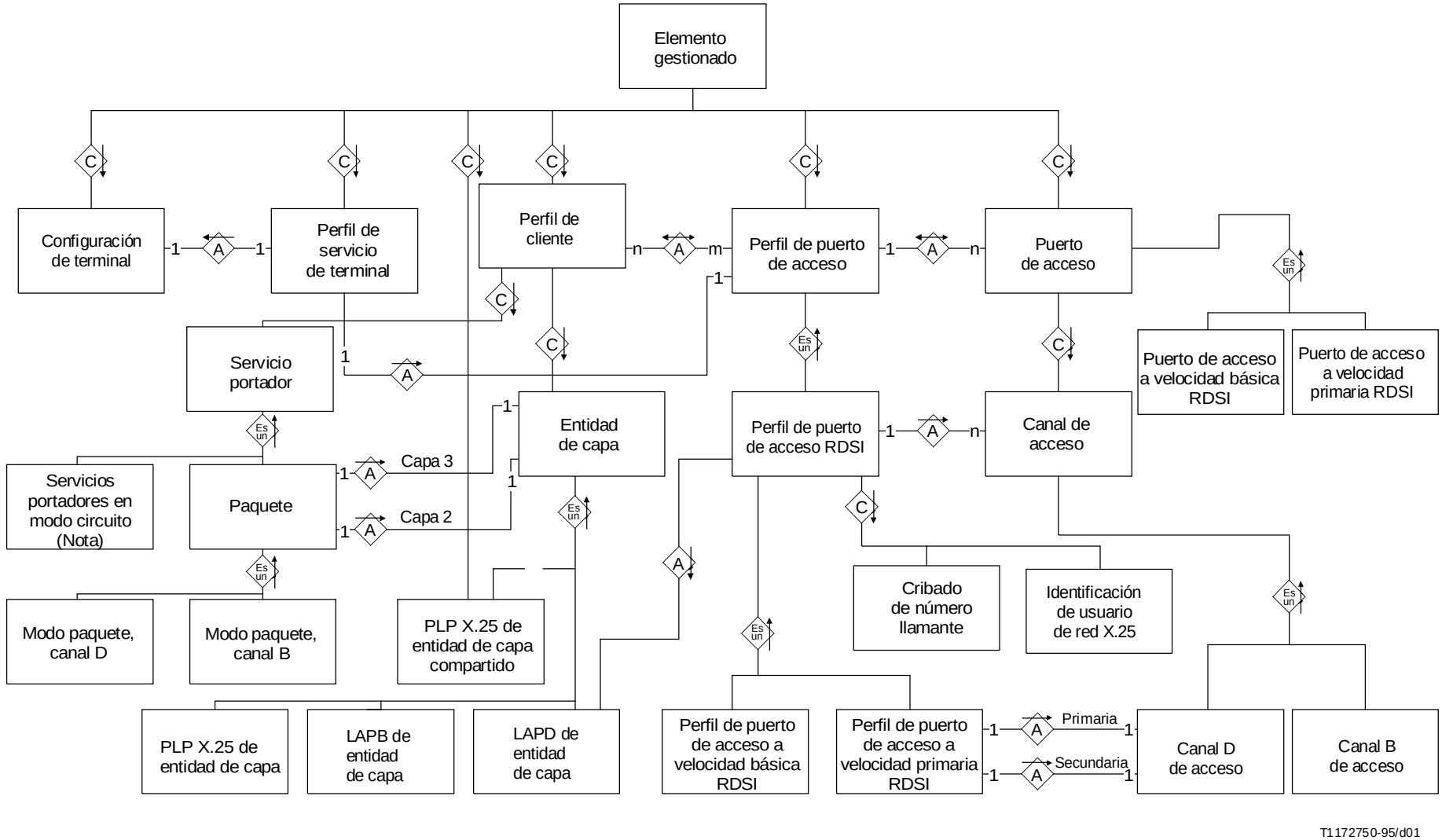
1.4 Visión de conjunto

1.4.1 Diagramas de modelos de información

Los siguientes diagramas de modelos de información se han diseñado para aclarar las relaciones entre las diferentes clases de objeto de administración de cliente. Hay tres tipos de diagramas:

1) Modelos de relación de entidades, que muestran las relaciones de los distintos objetos gestionados.
2) Jerarquía de herencia, que muestra cómo se derivan entre sí los objetos gestionados (es decir, los diferentes caminos de características heredadas de los distintos objetos gestionados).
3) Jerarquía de denominación, que muestra la derivación de los nombres de los objetos gestionados (es decir, los diferentes caminos de denominación de instrucción de objetos gestionados).

Estos tres diagramas sólo se utilizan con fines de aclaración. La especificación formal en plantillas GDMO y definiciones tipos ASN.1 constituye la información pertinente para la realización de esta Recomendación. Véanse las Figuras 1, 2 y 3.



Definido en otras Recomendaciones

No debe utilizarse una vinculación de nombre heredada

NOTA – Se utilizan servicios portadores en modo circuito tal como se indica en Q.824.0 para la superclase BS.

FIGURA 1a/Q.824.1

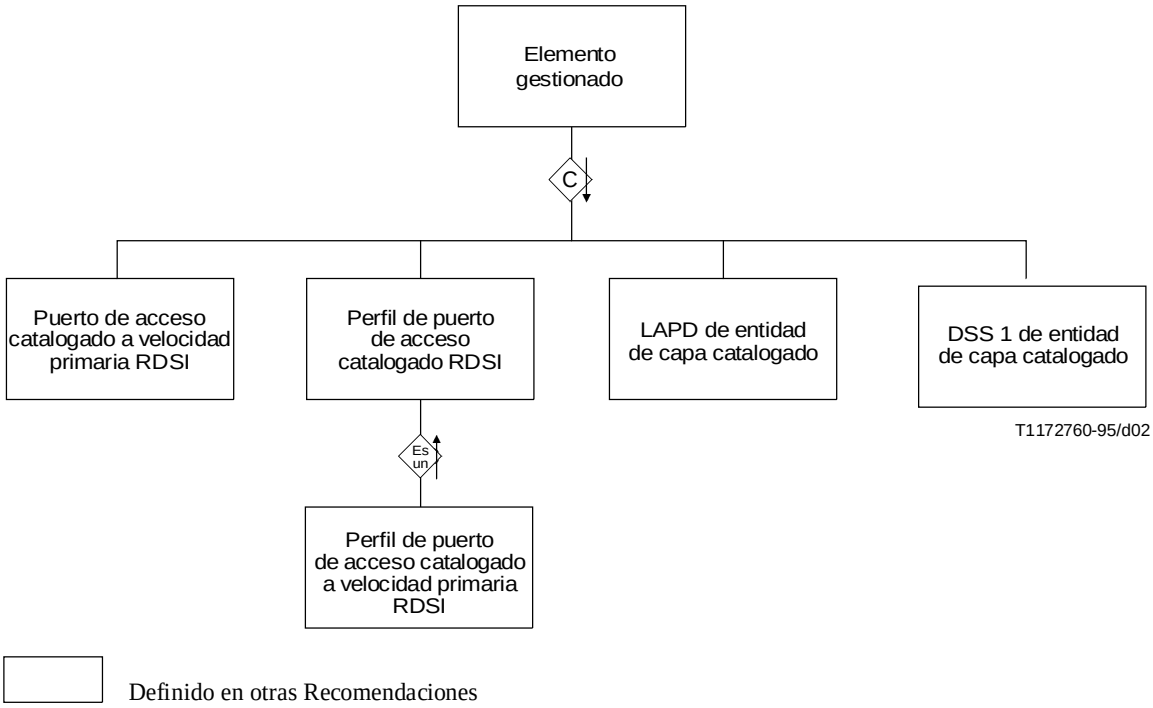


FIGURA 1b/Q.824.1

Modelo de relación de entidades – Parte B

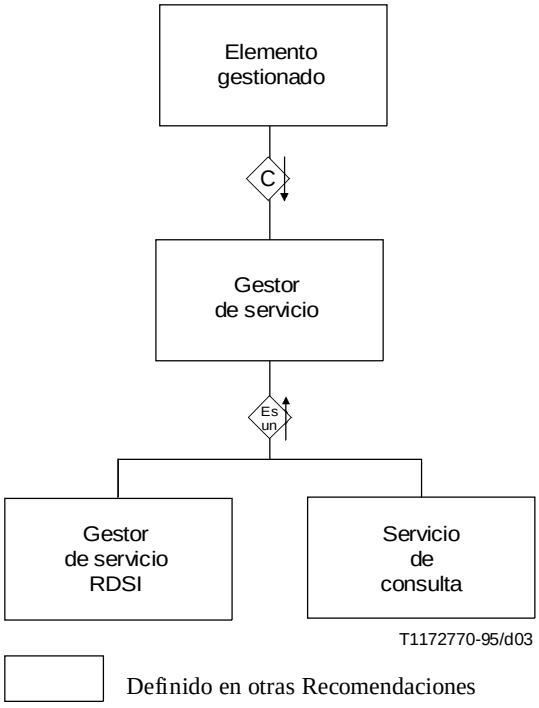


FIGURA 1c/Q.824.1

Modelo de relación de entidades – Parte C

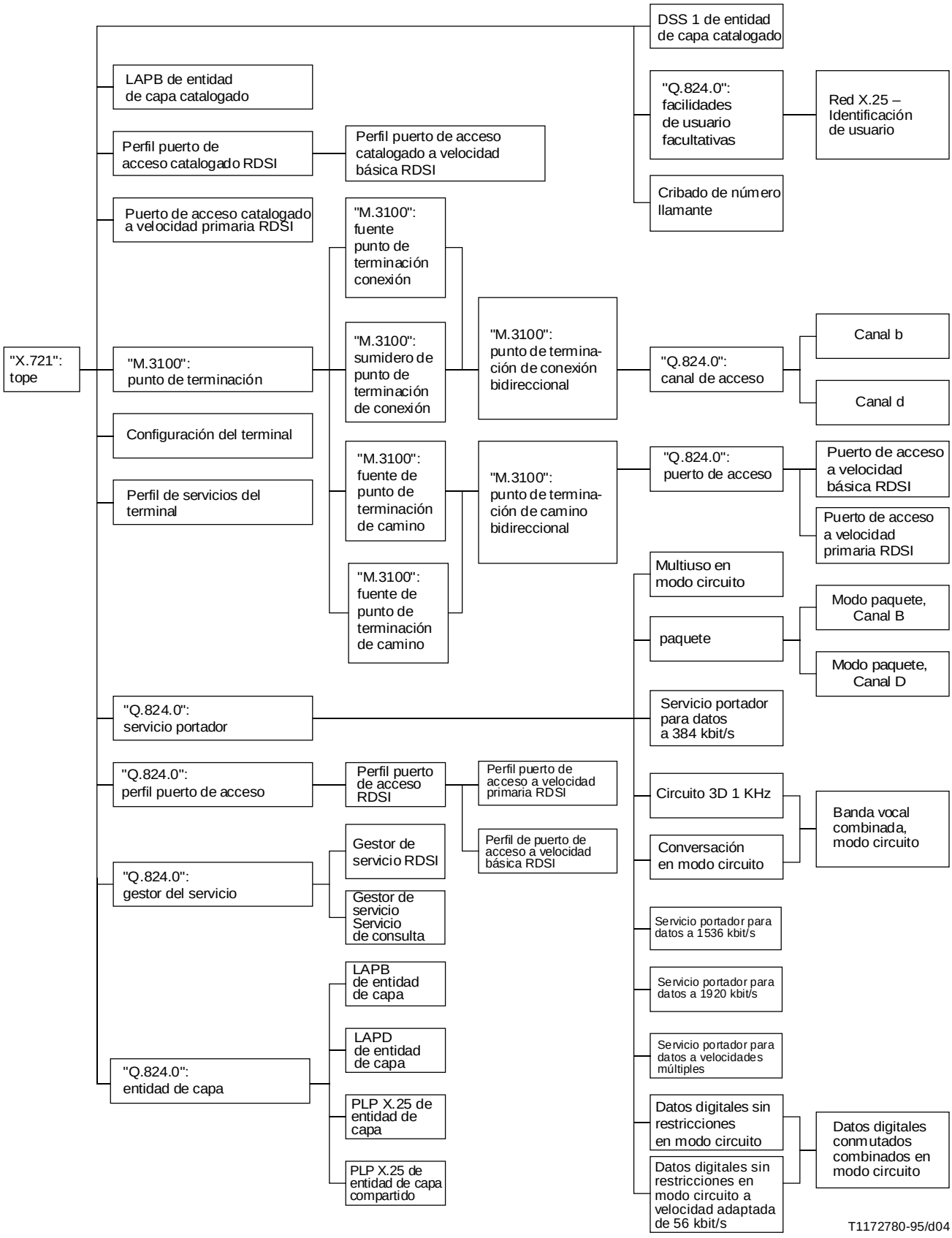
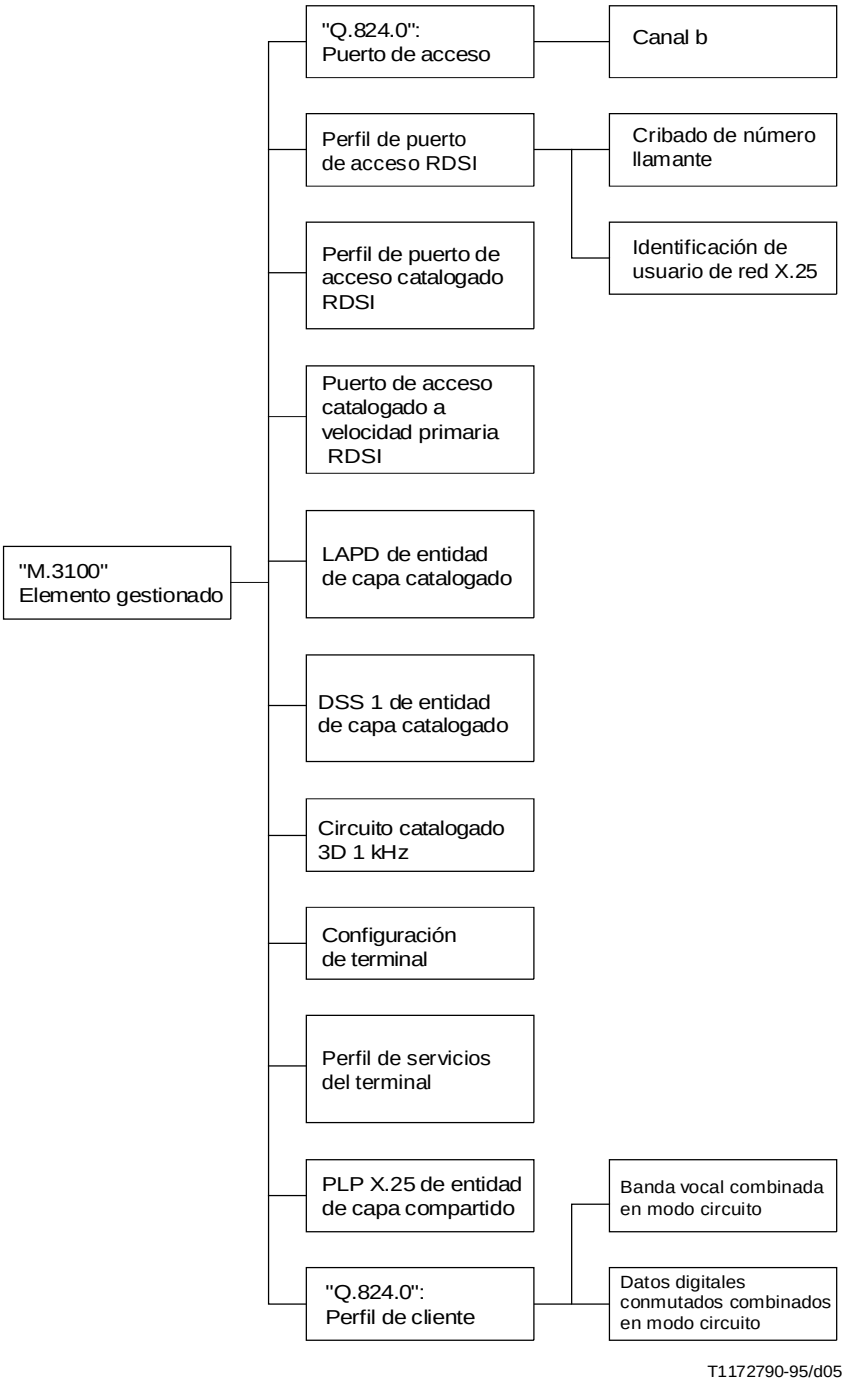


FIGURA 2/Q.824.1

Jerarquía de herencia



NOTA – La jerarquía de denominación indicada incluye las vinculaciones de nombre reutilizables definidas en otras Recomendaciones.

FIGURA 3/Q.824.1

Jerarquía de denominación

Modelos de relación de entidades

El siguiente modelo de relación de entidades describe relaciones concretas entre los objetos de la RDSI y otros objetos gestionados.

Los diagramas de relación de entidades ilustran la manera en que se prevé aplicar el modelo. No obstante, los diagramas de relación de entidades no muestran todas las relaciones posibles admitidas por el modelo. Muestran relaciones en las que pueden participar objetos gestionados. Algunas instancias de una clase o subclase pueden estar imposibilitadas para participar en la relación indicada. En caso de contención, esto significa que existirá una vinculación de nombre alternativa: en las relaciones implementadas a través de punteros, el valor del puntero será nulo si una instancia no puede o no participa en la relación.

1.5 Denominación de objeto gestionado y sintaxis de atributos

En la presente Recomendación todos los atributos se denominan de acuerdo con las siguientes directrices:

- El nombre de un atributo se compone del nombre de una clase de objeto seguido por la cadena «Ptr» únicamente si el valor de atributo está destinado a identificar una determinada clase de objeto.
- Si un valor de atributo está destinado a identificar clases de objetos diferentes, se da un nombre descriptivo a ese atributo y se proporciona una descripción en el comportamiento del atributo.
- El nombre de un atributo consta del nombre de una clase de objeto seguido por la cadena «Id» únicamente si el valor de atributo está destinado a identificar el nombre de la clase de objeto que tiene ese atributo.

2 Referencias

Las Recomendaciones siguientes y otras referencias contienen disposiciones que, mediante su referencia en este texto, constituyen disposiciones de la presente Recomendación. Al efectuar esta publicación estaban en vigor las ediciones indicadas. Todas las Recomendaciones y otras referencias son objeto de revisiones, por lo que se preconiza que los usuarios de esta Recomendación investiguen la posibilidad de aplicar las ediciones más recientes de las Recomendaciones y de otras referencias citadas a continuación. Regularmente se publica una lista de las Recomendaciones UIT-T actualmente vigentes.

- Recomendación I.231.1 del CCITT (1988), *64 kbit/s sin restricciones, estructurado a 8 kHz.*
- Recomendación I.231.2 del CCITT (1988), *64 kbit/s, estructurado a 8 kHz, utilizable para transferencia de información de conversación.*
- Recomendación I.231.3 del CCITT (1988), *64 kbit/s, estructurado a 8 kHz, utilizable para transferencia de información de audio a 3,1 kHz.*
- Recomendación UIT-T I.231.9 (1993), *Categoría de servicio portador multiuso estructurado a 8 kHz en modo circuito a 64 kbit/s*.
- Recomendación I.232 del CCITT (1988), *Categorías de servicios portadores en modo paquete*.
- Recomendación I.251.3 del CCITT (1992), *Presentación de la identificación de la línea llamante*.
- Recomendación M.3010 del CCITT (1992), *Principios para una red de gestión de las telecomunicaciones*.
- Recomendación M.3020 del CCITT (1992), *Metodología de especificación de la interfaz de la red de gestión de las telecomunicaciones*.
- Recomendación UIT-T M.3100 (1995), *Modelo genérico de información de red*.
- Recomendación M.3400 del CCITT (1992), *Funciones de gestión de la red de gestión de las telecomunicaciones*.
- Recomendación UIT-T Q.811 (1993), *Perfiles de protocolo de capa inferior para la interfaz Q3*.
- Recomendación UIT-T Q.812 (1993), *Perfiles de protocolo de capa superior para la interfaz Q3*.
- Recomendación UIT-T Q.824.0 (1995), *Descripción de las etapas 2 y 3 de la interfaz Q3 – Administración de clientes – Información común*.
- Recomendación UIT-T Q.921 (1993), *Especificación de la capa enlace de datos de la interfaz usuario-red de la red digital de servicios integrados*.
- Recomendación UIT-T Q.931 (1993), *Sistema de señalización digital de abonado N.° 1 – Especificación de la capa 3 de la interfaz usuario-red de la red digital de servicios integrados para el control de llamada básica*.
- Recomendación UIT-T Q.932 (1993), *Sistema de señalización digital de abonado N.° 1 – Procedimientos genéricos para el control de los servicios suplementarios de la red digital 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 dedicados.*
- Recomendación UIT-T X.31 (1993), *Soporte de equipos terminales en modo paquete por una red digital de servicios integrados*.
- Recomendación UIT-T X.281 (1995), *Tecnología de la información – Elementos de información de gestión relacionados con la capa física de interconexión de sistemas abiertos*.

– Recomendación UIT-T X.282 (1995), *Elementos de información de gestión relacionados con la capa de enlace de datos de interconexión de sistemas abiertos*.

– Recomendación UIT-T X.283 (1993), *Elementos de información de gestión relacionados con la capa de red de interconexión de sistemas abiertos*.

– Recomendación X.700 del CCITT (1992), *Marco de gestión para la interconexión de sistemas abiertos para aplicaciones del CCITT*.

– Recomendación X.701 del CCITT (1992), *Tecnología de la información – Interconexión de sistemas abiertos – Visión general de la gestión de sistemas.*

– Recomendación X.710 del CCITT (1991), *Definición del servicio común de información de gestión para aplicaciones del CCITT*.

– Recomendación X.711 del CCITT (1991), *Especificación del protocolo común de información de gestión para aplicaciones del CCITT*.

– Recomendación X.720 del CCITT (1992), *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), *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), *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), *Tecnología de la información – Interconexión de sistemas abiertos – Estructura de la información de gestión: Información de gestión genérica*.

3 Clases de objeto acceso

3.1 Canales de acceso

3.1.1 Canal B de canales de acceso

```
bChannel        MANAGED OBJECT CLASS
DERIVED FROM        "ITU-T Rec. Q.824.0":accessChannel;
CHARACTERIZED BY
"CCITT Rec. M.3100":channelNumberPackage,
bChannelPkg             PACKAGE
        BEHAVIOUR
        bChannelBhv  BEHAVIOUR
        DEFINED AS "This object class represents the attributes related to a particular B-channel on an ISDN access
        port.";;;;
REGISTERED AS  {cAISDNObjectClass 1};
```

3.1.2 Canal D de canales de acceso

```
dChannel        MANAGED OBJECT CLASS
DERIVED FROM        "ITU-T Rec. Q.824.0":accessChannel;
CHARACTERIZED BY
dChannelPkg             PACKAGE
        BEHAVIOUR
        dChannelBhv  BEHAVIOUR
        DEFINED AS  "This object class represents the attributes and characteristics related to a particular D-channel on
        an ISDN access port.";;;;
REGISTERED AS  {cAISDNObjectClass 2};
```

3.2 Puertos de acceso

3.2.1 Puerto de acceso a velocidad básica RDSI

```
accessPortISDNBasicRate             MANAGED OBJECT CLASS
DERIVED FROM        "ITU-T Rec. Q.824.0":accessPort;
CHARACTERIZED BY
accessPortISDNBasicRatePkg              PACKAGE
```

BEHAVIOUR
accessPortISDNBasicRateBhv BEHAVIOUR
DEFINED AS "This object class represents the access port termination supporting the ISDN Basic Rate service.";;;;
REGISTERED AS {cAISDNObjectClass 3};

3.2.2 Puerto de acceso a velocidad primaria RDSI

accessPortISDNPrimaryRate MANAGED OBJECT CLASS
DERIVED FROM "ITU-T Rec. Q.824.0":accessPort;
CHARACTERIZED BY
accessPortISDNPrimaryRatePkg PACKAGE
BEHAVIOUR
accessPortISDNPrimaryRateBhv BEHAVIOUR
DEFINED AS "This object class represents the access port termination supporting the DSS 1 interface identifier in the Primary Rate ISDN service.";;;;
REGISTERED AS {cAISDNObjectClass 4};

3.3 Perfiles de puerto de acceso

3.3.1 Perfil de puerto de acceso RDSI

accessPortProfileISDN MANAGED OBJECT CLASS
DERIVED FROM "ITU-T Rec. Q.824.0":accessPortProfile;
CHARACTERIZED BY
accessPortProfileISDNPkg PACKAGE
BEHAVIOUR
accessPortProfileISDNBhv BEHAVIOUR
DEFINED AS "This subclass of the access port profile adds ISDN specifics to the general access port profile class and is further subclassed into particular interface types (i.e. Basic and Primary). Only characteristics common to basic and primary are placed in this class.

This class provides the association between the B- and D-channels needed to support non-associated signalling. This type of association can be applied to any subclass of this class including Basic and Primary Rate access ports.

The supportedByAccessPortPtrList attribute inherited from the accessPortProfile managed object class may point to multiple accessPorts managed objects in this object and its subclasses.

The numberOfBChannels attribute controls the number of B-channel resources that the Access Port Profile ISDN has simultaneous access to. The value of this attribute must be equal to or less than the number of B-channel Access Channel object instances associated with the Access Port Profile. The default value of –1 for this indicates that all of the B-channel Access Channel object instances associated with the Access Port Profile are available.";;
ATTRIBUTES
accessChannelPtrList REPLACE-WITH-DEFAULT
DEFAULT VALUE CAISDNAttributeModule.emptySet GET-REPLACE
ADD-REMOVE,
numberOfBChannels REPLACE-WITH-DEFAULT
DEFAULT VALUE
CAISDNAttributeModule.minusONE GET-REPLACE
ADD-REMOVE,
layer2LAPDEntityPtr GET,
dChannelPacketDirectoryNumberList GET,
dChannelPacketDefaultDirectoryNumber GET-REPLACE;;;
CONDITIONAL PACKAGES
bearerServiceListPkg PRESENT IF "an instance supports it.",
callReferencePkg PRESENT IF "if restricting the max numbers of call reference is enforced.",
selectionProceduresPkg PRESENT IF "if supported by Administration.",
nT2ISDNaccessPortProfilePkg PRESENT IF "NT2 type service is supported on the access port and the service is supported by the Administration.";
REGISTERED AS {cAISDNObjectClass 5};

3.3.2 Perfil de puerto de acceso a velocidad básica RDSI

accessPortProfileISDNBasicRate MANAGED OBJECT CLASS
DERIVED FROM accessPortProfileISDN;
CHARACTERIZED BY
accessPortProfileISDNBasicRatePkg PACKAGE

BEHAVIOUR
accessPortProfileISDNBasicRateBhv BEHAVIOUR
DEFINED AS "This object associates the Access Port resources with service for ISDN Basic Rate. The Basic Rate access supporting this access port Profile may provide up to two 64 kbit/s B-channel and one 16 kbit/s D-channel service.";;;;

CONDITIONAL PACKAGES
deactivationCapabilitiesPkg PRESENT IF "deactivationCapabilities procedure is supported by Administration.",
activeTerminalListPkg PRESENT IF "an Administration supports it.",
numberOfDChannelLinksPkg PRESENT IF "if controlling the number of D-channel links on a per dChannel basis is supported by the Administration.";

REGISTERED AS {cAISDNObjectClass 6};

3.3.3 Perfil de puerto de acceso a velocidad primaria RDSI

accessPortProfileISDNPrimaryRate MANAGED OBJECT CLASS
DERIVED FROM accessPortProfileISDN;
CHARACTERIZED BY
accessPortProfileISDNPrimaryRatePkg PACKAGE
BEHAVIOUR
accessPortProfileISDNPrimaryRateBhv BEHAVIOUR
DEFINED AS "This object associates the Access Port resources with services for the ISDN primary rate. The primary rate access supporting this access port profile can range from that of a single primary rate section up to that including many primary rate sections. In addition to the information channels and the D-channel, a secondary D-channel may also be supported in a backup arrangement (see Annex F/Q.931).";;
ATTRIBUTES
dChannelPrimaryPtr GET-REPLACE,
dChannelSecondaryPtr GET-REPLACE;;;
CONDITIONAL PACKAGES
REGISTERED AS {cAISDNObjectClass 7};

3.3.4 Cribado de número llamante

callingNumberScreening MANAGED OBJECT CLASS
DERIVED FROM "CCITT Rec. X.721(1992)":top;
CHARACTERIZED BY
callingNumberScreeningPkg PACKAGE
BEHAVIOUR
callingNumberScreeningPackageBhv BEHAVIOUR
DEFINED AS "This object identifies characteristics of the Access Port Profile ISDN object class to be instantiated for screening as defined in Calling Line Supplementary Service I.251.3.

The attributes included in this object provide an interface with the capability of defining the set of Calling Party Valid Directory Numbers and a Calling Party Default Directory Number for the interface. It also provides a boolean attribute whose value determines whether or not calling party number screening is to be used by call originations.

The following table shows the possible combinations of the attributes for Calling Party Number Provision Necessary (CPNPN), Screening of Calling Party Number (SCPN), Calling Party Number Discard Control (CPNDC), and Calling Party Default Directory Number (CPDDN).

CPNPN indicates whether the calling party number must be provided by the calling user for call originations. If CPNPN is Y, then all call originations from the interface must provide a valid calling party number.

SCPN indicates whether calling party numbers received from the interface for call originations will be screened against the list of valid DNs for the interface.

CPNDC indicates whether failed-screening and not-screened calling party numbers are discarded from the calling information. If CPNDC is Y, then calling party numbers that are either not screened or fail screening are discarded.

CPDDN is the default DN (or DNs/bearer) that are used for call originations from this interface where the user does not provide a valid calling party number.

The scenario represented by the first row requires that the user provide valid calling party numbers (CPNPN = Y) for all call set-ups from the interface. User-provided calling party numbers will be screened for validity (SCPN = Y). If the calling party number fails screening, then it is discarded (in fact, the whole call is discarded so CPNDC really has a different meaning in this case). If the calling party number is not provided by the user then the call is cleared. CPDDN is not applicable in this scenario since the DN for the call must come from the user.

CPNPN	SCPN	CPNDC	CPDDN
Y	Y	Y	N/A
N	N	N	Required
N	N	Y	Required
N	Y	N	Required
N	Y	Y	Required

The second row represents a scenario where the user does not have to include the calling party number (CPNPN = N) for call set-ups from the interface. If the calling party number is provided by the user, it is not screened (SCPN = N) and it is not discarded (CPNDC = N). Any user-provided calling party number is passed as part of the call and may be delivered to the called party if the called party supports two-number delivery. CPDDN is required, and in fact, the default DN is used for every call origination from the interface.

The third row represents a scenario where the user does not have to include the calling party number (CPNPN = N) for call set-ups from the interface. If the calling party number is provided, it is not screened (SCPN = N) and discarded (CPNDC = Y). CPDDN is required, and in fact, the default DN is used for every call origination from the interface. Any user-provided calling party numbers are ignored (not screened and discarded).

The fourth row represents a scenario where the user does not have to include the calling party number (CPNPN = N) for call set-ups from the interface. If the calling party number is provided it will be screened for validity (SCPN = Y). If the user-provided calling party number passes screening then that DN is used for the call. CPDDN is required, and the default DN is used for call originations from the interface when the user-provided calling party number fails screening, or if the user does not provide a calling party number. Any user-provided calling party numbers that fail screening are also passed as part of the call (CPNDC = N) and may be delivered to the called party if the called party supports two-number delivery.

The fifth row represents a scenario where the user does not have to include the calling party number (CPNPN = N) for call set-ups from the interface. If the calling party number is provided it will be screened for validity (SCPN = Y). If the user-provided calling party number passes screening then that DN is used for the call. CPDDN is required, and the default DN is used for call originations from the interface when the user-provided calling party number fails screening, or if the user does not provide a calling party number. Any user-provided calling party numbers that fail screening are discarded (CPNDC = Y).";;

```
ATTRIBUTES
      callingNumberScreeningId                                  GET
                                                                SET-BY-CREATE
      callingPartyValidDirectoryNumberList                      GET,
      callingPartyNumberProvisionNecessary                      REPLACE-WITH-DEFAULT
      DEFAULT VALUE CAISDNAttributeModule.false                 GET-REPLACE,
      screenCallingPartyNumber                                  REPLACE-WITH-DEFAULT
      DEFAULT VALUE CAISDNAttributeModule.true                  GET-REPLACE,
      callingPartyNumberDiscardCtrl                             REPLACE-WITH-DEFAULT
      DEFAULT VALUE CAISDNAttributeModule.true                  GET-REPLACE,
      callingPartyDefaultDirectoryNNumber                       GET-REPLACE;
NOTIFICATIONS
      "CCITT Rec. X.721 | ISO/IEC 10165-2": attributeValueChange,
      "CCITT Rec. X.721 | ISO/IEC 10165-2": objectCreation,
      "CCITT Rec. X.721 | ISO/IEC 10165-2": objectDeletion;
            ;;
REGISTERED AS  {cAISDNObjectClass 8};
```

3.3.5 Identificación de usuario de red

```
x25NetworkUserIdentification        MANAGED OBJECT CLASS
DERIVED FROM        "ITU-T Rec. Q.824.0":optionalUserFacilities;
CHARACTERIZED BY
x25NetworkUserIdentificationPkg                PACKAGE
        BEHAVIOUR
        x25NetworkUserIdentificationBhv        BEHAVIOUR
        DEFINED AS  "This managed object contains attributes to provide information to the network for purposes of billing, security, network management, or to invoke subscribed facilities.";;
        ATTRIBUTES
            networkUserIdentificationREPLACE-WITH-DEFAULT
            DEFAULT VALUE CAOptionalUserFacilitiesModule.false                GET-REPLACE,
        networkUserIdentificationOverride                                     REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAOptionalUserFacilitiesModule.false                GET-REPLACE,
        networkUserIdentificationSelection                                    REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAOptionalUserFacilitiesModule.false                GET-REPLACE,
        networkUserIdentificationSupplement                                   REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAOptionalUserFacilitiesModule.false                GET-REPLACE,
        networkUserIdentificationUserValidate                                 REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAOptionalUserFacilitiesModule.false                GET-REPLACE;
        NOTIFICATIONS
            "CCITT Rec. X.721 | ISO/IEC 10165-2:1992": attributeValueChange,
            "CCITT Rec. X.721 | ISO/IEC 10165-2:1992": objectCreation,
            "CCITT Rec. X.721 | ISO/IEC 10165-2:1992": objectDeletion;;;
REGISTERED AS  {cAISDNObjectClass 9};
```

3.4 Entidades de capa

3.4.1 LAPB de entidad de capa

Esta clase describe las características adaptables del protocolo LAPB. Es decir, las características cuyos valores puede seleccionar el cliente para su abono a servicios portadores en modo paquete. Esta es una subclase de entidad de capa.

```
layerEntityLAPB        MANAGED OBJECT CLASS
DERIVED FROM        "ITU-T Rec. Q.824.0":layerEntity;
CHARACTERIZED BY
layerEntityLAPBPkg                PACKAGE
        BEHAVIOUR
        layerEntityLAPBBhv      BEHAVIOUR
        DEFINED AS  "This object class includes attributes applicable to X.25 layer 2 (LAPB), whose values are assignable on a Directory Number/Packet Data Bearer Service basis. Each instance of this object class represents a particular profile of attribute values and is associated with instances of the bearerServiceForPacketSwitchedDataobject class by pointers to instances of this object class.";;
        ATTRIBUTES
            "ITU-T Rec. X.282":sequenceModulus                                GET-REPLACE;;;
        CONDITIONAL PACKAGES
            x25DCETimersPkg        PRESENT IF "Timers are specified by subscribers.";
REGISTERED AS  {cAISDNObjectClass 10};
```

3.4.2 LAPD de entidad de capa

```
layerEntityLAPD        MANAGED OBJECT CLASS
DERIVED FROM        "ITU-T Rec. Q.824.0":layerEntity;
CHARACTERIZED BY
layerEntityLAPDPkg                PACKAGE
        BEHAVIOUR
        layerEntityLAPDBhv      BEHAVIOUR
        DEFINED AS  "This class describes the customizable characteristics of the LAPD protocol that are used for user information purpose. These customizable characteristics are the values that can be selected by the customer for his individual bearer service subscriptions. This class is subclassed from Layer Entity. These attributes are not customizable when the LAPD instance is a signalling one.";;;;
```

```
CONDITIONAL PACKAGES
        automaticNegotiationPkg     PRESENT IF "parameter negotiation is supported.",
        linkSettingPkg              PRESENT IF "if a per link setting is supported.",
        optionalDeactivationPkg     PRESENT IF "the Administration supports deactivation on a LAPD basis.";
REGISTERED AS  {cAISDNObjectClass 11};
```

3.4.3 PLP X.25 de entidad de capa

```
layerEntityX25PLP       MANAGED OBJECT CLASS
DERIVED FROM            "ITU-T Rec. Q.824.0":layerEntity ;
CHARACTERIZED BY
layerEntityX25PLPPkg                PACKAGE
        BEHAVIOUR
        layerEntityX25PLPBhv        BEHAVIOUR
        DEFINED AS  "This class describes the customizable characteristics of X.25 Layer 3 protocol that are used for
        signalling purpose and for user information purpose. These customizable characteristics are the values that can be
        selected by the customer for his individual packet bearer service subscriptions. This object class includes attributes
        applicable to X.25 layer 3 whose values are assignable on a Directory Number/Packet Data Bearer Service basis.
        Each instance of this object class represents a particular profile of attribute values.";;
        ATTRIBUTES
        dtEcompatibility
            REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.dte84                                GET-REPLACE,
        incomingMaxPacketSize                                               REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.size128                              GET-REPLACE,
        incomingWindowSize                                                  REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.two                                  GET-REPLACE,
        incomingDefaultThruputClass                                         REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.baud9600                             GET-REPLACE,
        outgoingMaxPacketSize                                               REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.size128                              GET-REPLACE,
        outgoingWindowSize                                                  REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.two                                  GET-REPLACE,
        outgoingDefaultThruputClass                                         REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.baud9600                             GET-REPLACE,
        "ITU-T Rec. X.283":onlineFacilityRegistration                       GET-REPLACE,
        "ITU-T Rec. X.283":extendedPacketSequencing                         GET-REPLACE,
        "ITU-T Rec. X.283":dBitModification                                 GET-REPLACE,
        "ITU-T Rec. X.283":packetRetransmission                             GET-REPLACE,
        "ITU-T Rec. X.283":nonStandardDefaultPacketSizes                    GET-REPLACE,
        "ITU-T Rec. X.283":nonStandardDefaultWindowSizes                    GET-REPLACE,
        "ITU-T Rec. X.283":flowControlParameterNegotiation                  REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.false                                GET-REPLACE,
        "ITU-T Rec. X.283":throughputClassNegotiation                       REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.false                                GET-REPLACE,
        "ITU-T Rec. X.283":fastSelectAcceptance                             REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.false                        GET-REPLACE;;;
CONDITIONAL PACKAGES
maxCombinedThruputBChanPkg      PRESENT IF "the maxCombinedThruputDChanPkg is not present.",
maxCombinedThruputDChanPkg      PRESENT IF "the maxCombinedThruputBChanPkg is not present.";
REGISTERED AS  {cAISDNObjectClass 12};
```

3.4.4 PLP X.25 de entidad de capa compartido

```
layerEntityX25PLPShared         MANAGED OBJECT CLASS
DERIVED FROM                    "ITU-T Rec. Q.824.0":layerEntity ;
CHARACTERIZED BY
layerEntityX25PLPSharedPkg              PACKAGE
        BEHAVIOUR
        layerEntityX25PLPSharedBhvBEHAVIOUR
        DEFINED AS  " This class describes the customizable characteristics of X.25 Layer 3 protocol that are used for
        signalling purpose and for user information purpose. Instances of this object class are used to define commonly used
        parameter groupings that may be shared by multiple customers. This object class includes attributes applicable to
        X.25 layer 3 whose values are assignable on a Directory Number/Packet Data Bearer Service basis. Each instance of
        this object class represents a particular profile of attribute values .";;
```

```
        ATTRIBUTES
        dTECompatibilty
            REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.dte84                                GET-REPLACE,
        incomingMaxPacketSize REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.size128                              GET-REPLACE,
        incomingWindowSize REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.two                                  GET-REPLACE,
        incomingDefaultThruputClass REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.baud9600                             GET-REPLACE,
        outgoingMaxPacketSize REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.size128                              GET-REPLACE,
        outgoingWindowSize REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.two                                  GET-REPLACE,
        outgoingDefaultThruputClass REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.baud9600                             GET-REPLACE,
        "ITU-T Rec. X.283":onlineFacilityRegistration                       GET-REPLACE,
        "ITU-T Rec. X.283":extendedPacketSequencing                         GET-REPLACE,
        "ITU-T Rec. X.283":dBitModification                                 GET-REPLACE,
        "ITU-T Rec. X.283":packetRetransmission                             GET-REPLACE,
        "ITU-T Rec. X.283":nonStandardDefaultPacketSizes                    GET-REPLACE,
        "ITU-T Rec. X.283":nonStandardDefaultWindowSizes                    GET-REPLACE,
        "ITU-T Rec. X.283":flowControlParameterNegotiation                  REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.false                                GET-REPLACE,
        "ITU-T Rec. X.283":throughputClassNegotiation                       REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.false                                GET-REPLACE,
        "ITU-T Rec. X.283":fastSelectAcceptance                             REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.false                                GET-REPLACE;;;
CONDITIONAL PACKAGES
maxCombinedThruputBChanPkg      PRESENT IF "the maxCombinedThruputDChanPkg is not present.",
maxCombinedThruputDChanPkg      PRESENT IF "the maxCombinedThruputBChanPkg is not present.";
REGISTERED AS   {cAISDNObjectClass 13};
```

4 Clases de objeto acceso catalogado

4.1 Puerto de acceso catalogado a velocidad primaria RDSI

```
cataloguedAccessPortISDNPrimaryRate     MANAGED OBJECT CLASS
DERIVED FROM        "CCITT Rec. X.721(1992)": top;
CHARACTERIZED BY
cataloguedAccessPortISDNPrimaryRatePkg              PACKAGE
        BEHAVIOUR
        cataloguedAccessPortISDNPrimaryRateBhv   BEHAVIOUR
        DEFINED AS  "This object class contains the non-customizable attributes of the access port supporting the DSS 1
        interface of the Primary Rate ISDN service.";;
        ATTRIBUTES
            cataloguedAccessPortISDNPrimaryRateId                           GET SET-BY-CREATE,
            bitRateOfPrimaryRateInterface                                   GET-REPLACE;
        NOTIFICATIONS
            "CCITT Rec. X.721": objectCreation,
            "CCITT Rec. X.721": objectDeletion,
            "CCITT Rec. X.721": attributeValueChange;;;
REGISTERED AS   {cAISDNObjectClass 14};
```

4.2 Perfil de puerto de acceso catalogado RDSI

```
cataloguedAccessPortProfileISDN     MANAGED OBJECT CLASS
DERIVED FROM        "CCITT Rec. X.721(1992)": top;
CHARACTERIZED BY
cataloguedAccessPortProfileISDNPkg              PACKAGE
        BEHAVIOUR
        cataloguedAccessPortProfileISDNBhv   BEHAVIOUR
        DEFINED AS  "This object class defines the access port profile attributes that are common to the ISDN basic and
        primary rate interfaces that the Administration may manage on a per exchange basis.";;
        ATTRIBUTES
            cataloguedAccessPortProfileISDNId                               GET SET-BY-CREATE,
            channelSelection                                                GET-REPLACE;;;
```

```
        NOTIFICATIONS
            "CCITT Rec. X.721": objectCreation,
            "CCITT Rec. X.721": objectDeletion,
            "CCITT Rec. X.721": attributeValueChange;;;
REGISTERED AS  {cAISDNObjectClass 15};
```

4.3 Perfil de puerto de acceso catalogado a velocidad básica RDSI

```
cataloguedAccessPortProfileISDNBasicRate        MANAGED OBJECT CLASS
DERIVED FROM        cataloguedAccessPortProfileISDN;
CHARACTERIZED BY
cataloguedAccessPortProfileISDNBasicRatePkg                PACKAGE
        BEHAVIOUR
        cataloguedAccessPortProfileISDNBasicRateBhv    BEHAVIOUR
        DEFINED AS  "This object class defines the access port profile ISDN basic rate interface characteristics that the Administration may manage on a per exchange basis.";;
        ATTRIBUTES
            numberOfDChannelLinks                                                GET-REPLACE;
        NOTIFICATIONS
            "CCITT Rec. X.721": objectCreation,
            "CCITT Rec. X.721": objectDeletion,
            "CCITT Rec. X.721": attributeValueChange;;;
REGISTERED AS  {cAISDNObjectClass 16};
```

4.4 DSS 1 de entidad de capa catalogado

```
cataloguedLayerEntityDSS1        MANAGED OBJECT CLASS
DERIVED FROM        "CCITT Rec. X.721": top;
CHARACTERIZED BY
cataloguedLayerEntityDSS1Pkg                PACKAGE
        BEHAVIOUR
        cataloguedLayerEntityDSS1Bhv    BEHAVIOUR
        DEFINED AS  "This object class represents the Layer 3 signalling parameters that are provided for customer service on a switch-wide basis.";;;
        ATTRIBUTES
            cataloguedLayerEntityDSS1Id                                          GET SET-BY-CREATE,
            dChannelT301                                                         GET-REPLACE,
            dChannelT303                                                         GET-REPLACE,
            dChannelT304                                                         GET-REPLACE,
            dChannelT305                                                         GET-REPLACE,
            dChannelT306                                                         GET-REPLACE,
            dChannelT307                                                         GET-REPLACE,
            dChannelT308                                                         GET-REPLACE,
            dChannelT309                                                         GET-REPLACE,
            dChannelT310                                                         GET-REPLACE,
            dChannelT312                                                         GET-REPLACE,
            dChannelT314                                                         GET-REPLACE,
            dChannelT316                                                         GET-REPLACE,
            dChannelT317                                                         GET-REPLACE,
            dChannelT320                                                         GET-REPLACE,
            dChannelT321                                                         GET-REPLACE,
            dChannelT322                                                         GET-REPLACE,
            dChannelT330                                                         GET-REPLACE;
        NOTIFICATIONS
            "CCITT Rec. X.721": objectCreation,
            "CCITT Rec. X.721": objectDeletion,
            "CCITT Rec. X.721": attributeValueChange;;;
REGISTERED AS  {cAISDNObjectClass 17};
```

4.5 LAPD de entidad de capa catalogado

```
cataloguedLayerEntityLAPD        MANAGED OBJECT CLASS
DERIVED FROM        "CCITT Rec. X.721(1992)": top;
CHARACTERIZED BY
cataloguedLayerEntityLAPDPkg                PACKAGE
```

BEHAVIOUR
cataloguedLayerEntityLAPDBhv BEHAVIOUR
DEFINED AS "The catalogued LAPD layer entity object class is a class of managed objects that represents characteristics of the LAPD protocol that are applicable to all customers on the switch that have ISDN access. This class also provides the ability for an Administration to set LAPD characteristics for all ISDN customer accesses without the need for individual LAPD entity settings.";;
ATTRIBUTES
cataloguedLayerEntityLAPDId GET,
interfaceType GET,
linkLevelWindowSize GET-REPLACE,
maxBitsPerInformationFrame GET-REPLACE,
maxTransmissionAttempts GET-REPLACE;;;
NOTIFICATIONS
"CCITT Rec. X.721": objectCreation,
"CCITT Rec. X.721": objectDeletion,
"CCITT Rec. X.721": attributeValueChange;;;
REGISTERED AS {cAISDNObjectClass 18};

5 Clases de objeto terminal RDSI

5.1 Configuración de terminal

terminalConfiguration MANAGED OBJECT CLASS
DERIVED FROM "CCITT Rec. X.721": top;
CHARACTERIZED BY
terminalConfigurationPkg PACKAGE
BEHAVIOUR
terminalConfiguratonBhv BEHAVIOUR
DEFINED AS "The Terminal Configuration managed object class is a class of managed objects that represents instances of ISDN terminal push button and indicator lamp configurations. This managed object class includes the attributes by which the physical Feature Activator (e.g. buttons) and Feature Indicator (e.g. lamps) at the user terminal are functionally assigned. This object class may effectively represent a shared library or unique non-shared object depending on this service.";;
ATTRIBUTES
terminalConfigurationId GET SET-BY-CREATE,
featureActivatorAllDirectoryNumber GET-REPLACE,
featureActivatorsPerDirectoryNumber GET-REPLACE,
featureActivatorsPerStopHunt GET-REPLACE,
featureActivatorsPerHuntMakeBus GET-REPLACE,
featureIndicatorsAllDirectoryNumber GET-REPLACE,
featureIndicatorsPerDirectoryNumber GET-REPLACE,
featureIndicatorsPerStopHunt GET-REPLACE,
featureIndicatorsPerHuntMakeBusy GET-REPLACE;
NOTIFICATIONS
"CCITT Rec. X.721 | ISO/IEC 10165-2 ": attributeValueChange,
"CCITT Rec. X.721 | ISO/IEC 10165-2": objectCreation,
"CCITT Rec. X.721 | ISO/IEC 10165-2": objectDeletion;;;
REGISTERED AS {cAISDNObjectClass 19};

5.2 Perfil de servicio de terminal

terminalServiceProfile MANAGED OBJECT CLASS
DERIVED FROM "CCITT Rec. X.721(1992)": top;
CHARACTERIZED BY
terminalServiceProfilePkg PACKAGE
BEHAVIOUR
terminalServiceProfileBhv BEHAVIOUR
DEFINED AS "The Terminal Service Profile (TSP) object class is a class of managed objects that represents instances of Terminal Service Profiles for self-initializing ISDN terminals on a Basic Rate Interface (BRI). The TSP is a grouping of service profile parameters for one or more terminals on a BRI. Each terminal on a BRI must be initialized with a unique identifier called a Service Profile Identifier (SPID). The SPID uniquely identifies the ISDN terminal to the switch and to the supporting Operations System (OS). See Annex A/Q.932 for details.

The numberOfBChannels attribute limits the B-channel resources that the terminalServiceProfile can use at any point in time. The value of the attribute in this object must be equal to or less than the value of the numberOfBChannels attribute in the associated accessPortProfileIsdn object instance. The default value of –1 for this attribute indicates that all of the accessChannel object instances associated with the accessPortProfileIsdn object are available for use.";;

ATTRIBUTES

terminalServiceProfileId	**GET SET-BY-CREATE,**
"Q.824.0":accessPortProfilePtr	**GET-REPLACE,**
directoryNumberAppearanceIdentifierList	**GET-REPLACE ADD-REMOVE,**
directoryNumberReference	**GET-REPLACE,**
numberOfBChannels	**REPLACE-WITH-DEFAULT**
DEFAULT VALUE CAISDNModule.minusOne	**GET-REPLACE,**
terminalConfigurationPtr	**GET-REPLACE,**
terminalLimit	**REPLACE-WITH-DEFAULT**
DEFAULT VALUE CAISDNModule.one	**GET-REPLACE,**
tspid	**GET-REPLACE;**

NOTIFICATIONS

"CCITT Rec. X.721 | ISO/IEC 10165-2": attributeValueChange,
"CCITT Rec. X.721 | ISO/IEC 10165-2": objectCreation,
"CCITT Rec. X.721 | ISO/IEC 10165-2": objectDeletion;;;

REGISTERED AS {cAISDNObjectClass 20};

6 Clases de objeto servicio portador

6.1 Servicios portadores

6.1.1 Servicio portador para datos a 384 kbit/s

bearerServiceFor384kbpsData MANAGED OBJECT CLASS
DERIVED FROM "ITU-T Rec. 824.0":bearerService;
CHARACTERIZED BY
bearerServiceFor384kbpsDataPkg PACKAGE
BEHAVIOUR
bearerServiceFor384kbpsDataBhv BEHAVIOUR
DEFINED AS "This object class represents the characteristics of the Circuit-Mode, 384 kbit/s Unrestricted Digital Transmission, 8000 Hz Structured, Demand, Point-To-Point, and Bidirectional Symmetric bearer service. This bearer service and the associated values for the I.210 Information Transfer and Access attributes, are identified in I.231.6. A call using this bearer service must use channels from single primary rate interfaces as modeled by Access Port.

The numberOfBChannels attribute inherited from the bearerService superclass must indicate either all B-channels are available (–1) or must be a mutiple of 6 to indicate that only some of the underlying B-channels may be used for this bearer service. If all B-channels are indicated by the numberOfBChannels attribute, then on each related Access Port largest mutiple of 6 less than or equal to the total number of B-channels on that AccessPort may be used for this service. For example, if this service is associated with two AccessPort objects, one with 23 B-channels and the other with 24 B-channels, then a –1 in the numberOfBChannels attribute indicates that 18 B-channels may be used from the first AccessPort and that 24 may be used from the second AccessPort.";;

ATTRIBUTES
assignmentOfTimeslots GET-REPLACE;;;
CONDITIONAL PACKAGES
bearerServiceFor384kbpsDataPrimaryICPkg PRESENT IF "an instance supports it.";

REGISTERED AS {cAISDNObjectClass 21};

6.1.2 Servicio portador para datos a 1536 kbit/s

bearerServiceFor1536kbpsData MANAGED OBJECT CLASS
DERIVED FROM "ITU-T Rec. 824.0":bearerService;
CHARACTERIZED BY
bearerServiceFor1536kbpsDataPkg PACKAGE
BEHAVIOUR
bearerServiceFor1536kbpsDataBhv BEHAVIOUR
DEFINED AS "This object class represents the characteristics of the Circuit-Mode, 1536 kbit/s Unrestricted Digital Transmission, 8000 Hz Structured, Demand, Point-To-Point, and Bidirectional Symmetric bearer service. This bearer service and the associated values for the I.210 Information Transfer and Access attributes, are identified in I.231.7. A call using this bearer service must use channels from a single Access Port.

The numberOfBChannels attribute inherited from the bearerService superclass must indicate either all B-channels are available (–1) or must be a mutiple of 24 to indicate that only some of the underlying B-channels may be used for this bearer service. If all B-channels are indicated by the numberOfBChannels attribute, then on each related Access Port the largest mutiple of 24 less than or equal to the total number of B-channels on each AccessPort may be used for this service. For example, if this service is associated with two AccessPort objects, one with 23 B-channels and the other with 24 B-channels, then a –1 in the numberOfBChannels attribute indicates that 24 B-channels from the second Access Port may be used (and no B-channels may be used from the Access Port with only 23 B-channels).";;;;

CONDITIONAL PACKAGES

bearerServiceFor1536kbpsDataPrimaryICPkg PRESENT IF "an instance supports it.",

assignmentOfTimeslotsPkg PRESENT IF "2Mb/sec interfaces are supported and an instance supports it.";

REGISTERED AS {cAISDNObjectClass 22};

6.1.3 Servicio portador para datos a 1920 kbit/s

bearerServiceFor1920kbpsData MANAGED OBJECT CLASS
DERIVED FROM "ITU-T Rec. 824.0":bearerService;
CHARACTERIZED BY
bearerServiceFor1920kbpsDataPkg PACKAGE
BEHAVIOUR
bearerServiceFor1920kbpsDataBhv BEHAVIOUR
DEFINED AS "This object class represents the characteristics of the Circuit-Mode, 1920 kbit/s Unrestricted Digital Transmission, 8000 Hz Structured, Demand, Point-To-Point, and Bidirectional Symmetric bearer service. This bearer service and the associated values for the I.210 Information Transfer and Access attributes, are identified in I.231.8. A call using this bearer service must use channels from a single Access Port.";;;;
CONDITIONAL PACKAGES
bearerServiceFor1920kbpsDataPrimaryICPkg PRESENT IF "an instance supports it.";
REGISTERED AS {cAISDNObjectClass 23};

6.1.4 Servicio portador para datos a velocidades múltiples

bearerServiceForMuliple-RateData MANAGED OBJECT CLASS
DERIVED FROM "ITU-T Rec. 824.0":bearerService;
CHARACTERIZED BY
bearerServiceForMultipleRateDataPkg PACKAGE
BEHAVIOUR
bearerServiceForMultipleRateDataBhv BEHAVIOUR
DEFINED AS "This object class represents the characteristics of the Circuit-Mode, Multiple-Rate Unrestricted Digital Transmission, 8000 Hz Structured, Demand, Point-To-Point, and Bidirectional Symmetric bearer service. This bearer service and the associated values for the I.210 Information Transfer and Access attributes, are identified in I.231.10. A call using this bearer service must use channels from single physical interfaces as modeled by Access Port.

The numberOfBChannels attribute inherited from the bearerService superclass must indicate either all B-channels are available (–1) or must indicate the maximum number of B-channels that may be used for this service.";;
ATTRIBUTES
assignmentOfTimeslots GET-REPLACE;;;
CONDITIONAL PACKAGES
bearerServiceForMultipleRateDataPrimaryICPkg PRESENT IF "an instance supports it.";
REGISTERED AS {cAISDNObjectClass 24};

6.1.5 Modo circuito a 3,1 kHz

La clase de objeto servicio portador de audio a 3,1 kHz especifica las características de los servicios de audio de la RDSI.

circuit3D1kHz MANAGED OBJECT CLASS
DERIVED FROM "ITU-T Rec. Q.824.0":bearerService;
CHARACTERIZED BY
circuit3D1kHzPkg PACKAGE
BEHAVIOUR
circuit3D1KHzBhv BEHAVIOUR

DEFINED AS "This object class and its superclass, bearerService, represent the characteristics of the Circuit-Mode, 64 kbit/s, 8 kHz Structured, Usable for Circuit 3.1 kHz Information Transfer bearer service. This bearer service and the associated values for the I.210 Information Transfer and Access attributes, are identified in I.231.3.";;;;
CONDITIONAL PACKAGES
bearerServiceForAudioICPkg PRESENT IF "inter-exchange carrier subscription is supported.",
networkProvidedTonePkg PRESENT IF "Network Provided Tone subscription is supported.";
REGISTERED AS {cAISDNObjectClass 25};

6.1.6 Datos digitales conmutados combinados en modo circuito

Esta clase de objeto es una subclase derivada del servicio portador de datos digitales sin restricciones en modo circuito a velocidad adaptada de 56 kbit/s y del servicio portador de datos digitales sin restricciones en modo circuito. La clase de objeto representa por tanto las características combinadas de sus superclases. Un caso de esta clase de objeto no puede coexistir con un caso de una de sus superclases para la misma asignación de número de directorio.

circuitCombinedSwitchedDigitalData MANAGED OBJECT CLASS
DERIVED FROM
circuitUnrestrictedDigitalData,
circuitUnrestrictedDigitalData;
CHARACTERIZED BY
circuitCombinedSwitchedDigitalDataPkg PACKAGE
BEHAVIOUR
circuitCombinedSwitchedDigitalDataBhv BEHAVIOUR
DEFINED AS "This object class represents a grouping of the following bearer services:
- **Circuit-Mode, 64 kbit/s Unrestricted Digital Data Transmission, 8 kHz Structured bearer service,**
- **Circuit-Mode, 64 kbit/s Unrestricted Digital Data Transmission adapted from 56 kbit/s, 8 kHz Structured, Demand, Point-to-Point, and Bidirectional Symmetric bearer service.**

The grouping of these circuit-mode bearer services is required when the services choice or resources allocation are the same whether the capability is 64 kbit/s or adapted 56 kbit/s. This object class is a subclass of the bearer Service Restricted Data and bearer Service unrestricted Data object classes and inherits the characteristics and behaviours from both superclasses.";;;;
REGISTERED AS {cAISDNObjectClass 26};

6.1.7 Banda vocal combinada en modo circuito

Esta clase de objeto es una subclase derivada de las clases de objeto servicio portador en modo circuito a 3,1 kHz y servicio portador conversación, por herencia múltiple. La clase de objeto representa por tanto las características combinadas de sus dos superclases. Un caso de esta clase de objeto no puede coexistir con un caso de una de sus superclases para la misma asignación de número de directorio.

circuitCombinedVoiceBand MANAGED OBJECT CLASS
DERIVED FROM
circuit3D1kHz,
circuitSpeech;
CHARACTERIZED BY
circuitCombinedVoiceBandPkg PACKAGE
BEHAVIOUR
circuitCombinedVoiceBandBhv BEHAVIOUR
DEFINED AS "This object class represents a grouping of the characteristics of the following bearer services:
- **Circuit-Mode, 64 kbit/s, 8 kHz Structured, Usable for 3.1 kHz Audio Information Transfer bearer services.**
- **Circuit-Mode, 64 kbit/s, 8 kHz Structured, Usable for Speech Demand, Point-to-Point, and Bidirectional Symmetric bearer service.**

These bearer services are identified in I.231 and I.232. The grouping of these circuit-mode bearer services is required when the services choice or resources allocation are the same whether the capability is 3.1 KHz or speech. This object class is a subclass of thecircuitSpeech and bearer Service3kHzAudio superclasses and inherits the characteristics and behaviours from both superclasses.";;;;
REGISTERED AS {cAISDNObjectClass 27};

6.1.8 Multiuso en modo circuito

La clase de objeto servicio portador multiuso especifica las características de los servicios de audio de la RDSI.

circuitMultiUse MANAGED OBJECT CLASS
DERIVED FROM "ITU-T Rec. Q.824.0":bearerService;
CHARACTERIZED BY
circuitMultiUsePkg PACKAGE
BEHAVIOUR
circuitMultiUseBhv BEHAVIOUR
DEFINED AS "This object class and its superclass, bearerService, represent the characteristics of the Circuit-Mode, 64 kbit/s, 8 kHz Structured, Usable for MultiUse Information Transfer bearer service. This bearer service and associated values for the I.210 Information Transfer and Access attributes, are identified in I.231.9.";;;;
CONDITIONAL PACKAGES
networkProvidedTonePkg PRESENT IF "Network Provided Tone Subscription is supported.",
circuitMultiUsePrimaryICPkg PRESENT IF "inter-exchange carrier subscription is supported.";
REGISTERED AS {cAISDNObjectClass 28};

6.1.9 Servicio portador para velocidad de datos (sin restricciones) de 64 kbit/s adaptada de 56 kbit/s

circuitUnrestrictedDigitalDataRateAdaptedFrom56 kbit/s MANAGED OBJECT CLASS
DERIVED FROM "ITU-T Rec. 824.0":bearerService;
CHARACTERIZED BY
circuitUnrestrictedDigitalDataRateAdaptedFrom56kbpsPkg PACKAGE
BEHAVIOUR
circuitUnrestrictedDigitalDataRateAdaptedFrom56kbpsBhv BEHAVIOUR
DEFINED AS "This object represents the characteristics of the Circuit-Mode, 64 kbit/s Unrestricted bearer service as defined in I.231 and I.232 rate adapted to 56 kbit/s according to V.110.";;;;
CONDITIONAL PACKAGES
circuitUnrestrictedDigitalDataPrimaryICPkg PRESENT IF "inter-exchange carrier subscription is supported.";
REGISTERED AS {cAISDNObjectClass 29};

6.1.10 Conversación en modo circuito

La clase de objeto servicio portador conversación en modo circuito especifica las características de los servicios de conversación de la RDSI.

circuitSpeech MANAGED OBJECT CLASS
DERIVED FROM "ITU-T Rec. Q.824.0":bearerService;
CHARACTERIZED BY
circuitSpeechPkg PACKAGE
BEHAVIOUR
circuitSpeechBhv BEHAVIOUR
DEFINED AS "This object class represents the characteristics of the Circuit-Mode, 64 kbit/s, 8 kHz Structured, Usable for Speech bearer service. This bearer service, and the associated values for the I.210 Information Transfer and Access attributes, are identified in I.231.2. This bearer service is intended to support network characteristics appropriate for speech, such as 4-wire analog transmission, low bit rate voice encoding, and Time Assignment Speech Interpolation (TASI) techniques.";;;;
CONDITIONAL PACKAGES
networkProvidedTonePkg PRESENT IF "Network Provided Tone Subscription is supported.",
circuitSpeechPrimaryICPkg PRESENT IF "inter-exchange carrier subscription is supported.";
REGISTERED AS {cAISDNObjectClass 30};

6.1.11 Datos digitales sin restricciones en modo circuito

La clase de objeto servicio portador datos digitales sin restricciones especifica las características de llamadas de datos en modo circuito de la RDSI que utilizan facilidades digitales sin restricciones.

circuitUnrestrictedDigitalData MANAGED OBJECT CLASS
DERIVED FROM "ITU-T Rec. Q.824.0":bearerService;
CHARACTERIZED BY
circuitUnrestrictedDigitalDataPkg PACKAGE
BEHAVIOUR
circuitUnrestrictedDigitalDataBhv BEHAVIOUR
DEFINED AS "This object class represents the characteristics of the Circuit-Mode, 64 kbit/s Unrestricted Digital Transmission, 8 kHz Structured bearer service. This bearer service and the associated values for the I.210 Transfer and Access attributes, are identified in I.231.1.";;;;

CONDITIONAL PACKAGES
circuitUnrestrictedDigitalDataPrimaryICPkg PRESENT IF "inter-exchange carrier subscription is supported.";
REGISTERED AS {cAISDNObjectClass 31};

6.1.12 Modo paquete

La clase de objeto servicio portador modo paquete especifica las características de los servicios modo paquete de la RDSI.

packet MANAGED OBJECT CLASS
DERIVED FROM "ITU-T Rec. Q.824.0":bearerService;
CHARACTERIZED BY
packetPkg PACKAGE
BEHAVIOUR
packetBhv BEHAVIOUR
DEFINED AS "This object class represents the characteristics of the Packet bearer service. The transmission rate of the packet mode service is defined by the associated B- and D-channel characteristics. This bearer service and the associated values for the I.210 Transfer and Access attributes, are identified in I.232. This class is not instantiated, only its subclasses are instatiated.";;
ATTRIBUTES
notificationClass GET-REPLACE,
layer2InfoEntityPtr GET-REPLACE,
layer3InfoEntityPtr GET-REPLACE;;;
REGISTERED AS {cAISDNObjectClass 32};

6.1.13 Modo paquete, canal B

packetBChannel MANAGED OBJECT CLASS
DERIVED FROM packet;
CHARACTERIZED BY
packetBChannelPkg PACKAGE
BEHAVIOUR
packetPacketBChannelBhv BEHAVIOUR
DEFINED AS "This object class represents the characteristics of the Packet bearer service running over a B-channel. This bearer service and the associated values for the I.210 Information Transfer and Access attributes, are identified in I.232.";;
ATTRIBUTES
semiPermAccessPacketHandlerDefaultDN GET-REPLACE;;;
REGISTERED AS {cAISDNObjectClass 33};

6.1.14 Modo paquete, canal D

packetDChannel MANAGED OBJECT CLASS
DERIVED FROM packet;
CHARACTERIZED BY
packetDChannelPkg PACKAGE
BEHAVIOUR
packetDChannelBhv BEHAVIOUR
DEFINED AS "This object class represents the characteristics of the Packet bearer service running over a D-channel. This bearer service and the associated values for the I.210 Information Transfer and Access attributes, are identified in I.232.";;;;
REGISTERED AS {cAISDNObjectClass 34};

7 Clases de objeto gestionado soporte de operaciones

7.1 Gestor de servicio RDSI

serviceManagerISDN MANAGED OBJECT CLASS
DERIVED FROM "ITU-T Rec. Q.824.0":serviceManager;
CHARACTERIZED BY
serviceManagerISDNPkg PACKAGE
BEHAVIOUR
serviceManagerISDNBhv BEHAVIOUR
DEFINED AS "The serviceManagerISDN will perform the actions that establish and remove ISDN accesses, services and terminals. In addition, the serviceManagerISDN will perform actions that will change a directory number.";;

ACTIONS
establishISDNAccess invalidReferenceError,
removeISDNAccess invalidReferenceError,
establishISDNService invalidReferenceError,
removeISDNService invalidReferenceError,
changeDirectoryNumber invalidReferenceError;;;
CONDITIONAL PACKAGES
manageISDNTerminalPackage PRESENT IF "supported by Administration.";
REGISTERED AS {cAISDNObjectClass 35};

7.2 Servicio de consulta de gestor de servicio

serviceManagerRetrieveService MANAGED OBJECT CLASS
DERIVED FROM "ITU-T Rec. Q.824.0":serviceManager;
CHARACTERIZED BY
serviceManagerRetrieveServicePkg PACKAGE
BEHAVIOUR
serviceManagerRetrieveServiceBhv BEHAVIOUR
DEFINED AS "The serviceManagerCustService is service independent managed object whose action will retrieve all service information related to a given customer service.";;
ACTIONS
retrieveService invalidReferenceError;;;
REGISTERED AS {cAISDNObjectClass 36};

8 Plantillas de lotes

8.1 Lista de terminal activo

activeTerminalListPkg PACKAGE
BEHAVIOUR activeTerminalListPkgBhv BEHAVIOUR
DEFINED AS "This package provides information on the terminal currently active on the access port profile. The activeTerminalList attribute is a get only attribute that is set when a terminal initializes on the access port profile. For terminals with fixed TEI, the TEI is recorded when the terminal is in the Mutliframe Established state. For automatic terminals, the TEI is set when the terminals enter the TEI assigned state. For fully initializing terminals (those using the optional procedures of Q.932), the SPID and USID may also be recorded in this attribute when the terminal initializes.";;
ATTRIBUTES
activeTerminalList GET;
REGISTERED AS {cAISDNPackage 1};

8.2 Asignación de intervalos de tiempo

assignmentOfTimeslotsPkg PACKAGE
BEHAVIOUR
assignmentOfTimeslotsBhv BEHAVIOUR
DEFINED AS "This package provides an attribute whose value is used to determine how wideband channel selection is done."
ATTRIBUTES
assignmentOfTimeslots GET-REPLACE;
REGISTERED AS {cAISDNPackage 2};

8.3 Negociación automática

automaticNegotiationPkg PACKAGE
ATTRIBUTES
automaticXIDnotification GET-REPLACE,
signallingParameterNegotiation GET-REPLACE;
REGISTERED AS {cAISDNPackage 3};

8.4 Servicio portador para IC para audio

bearerServiceForAudioICPkg PACKAGE
ATTRIBUTES
circuitAudioPrimaryIC GET-REPLACE;
REGISTERED AS {cAISDNPackage 4};

8.5 Servicio portador para IC primaria para datos a 384 kbit/s

```
bearerServiceFor384kbpsDataPrimaryICPkg                    PACKAGE
        BEHAVIOUR
        bearerServiceFor384kbpsDataPrimaryICPkgBhv         BEHAVIOUR
        DEFINED AS  "This package provides an attribute whose value identifies the Inter-Exchange Carrier assigned to
        the subscriber service this object represents.";;
        ATTRIBUTES
            bearerServiceFor384kbpsDataPrimary IC                                  GET-REPLACE;
REGISTERED AS  {cAISDNPackage 5};
```

8.6 Servicio portador para IC primaria para datos a 1536 kbit/s

```
bearerServiceFor1536kbpsDataPrimaryICPkg                   PACKAGE
        BEHAVIOUR
        bearerServiceFor1536kbpsDataPrimaryICPkgBhv        BEHAVIOUR
        DEFINED AS  "This package provides an attribute whose value identifies the Inter-Exchange Carrier assigned to
        the subscriber service this object represents.";;
        ATTRIBUTES
            bearerServiceFor1536kbpsDataPrimary IC                                 GET-REPLACE;
REGISTERED AS  {cAISDNPackage 6};
```

8.7 Servicio portador para IC primaria para datos a 1920 kbit/s

```
bearerServiceFor1920kbpsDataPrimaryICPkg                   PACKAGE
        BEHAVIOUR
        bearerServiceFor1920kbpsDataPrimaryICPkgBhv        BEHAVIOUR
        DEFINED AS  "This package provides an attribute whose value identifies the Inter-Exchange Carrier assigned to
        the subscriber service this object represents.";;
        ATTRIBUTES
            bearerServiceFor1920kbpsDataPrimary IC                                 GET-REPLACE;
REGISTERED AS  {cAISDNPackage 7};
```

8.8 Servicio portador para IC primaria para datos a velocidades múltiples

```
bearerServiceForMultipleRateDataPrimaryICPkg               PACKAGE
        BEHAVIOUR
        bearerServiceForMultipleRateDataPrimaryICPkgBhv    BEHAVIOUR
        DEFINED AS  "This package provides an attribute whose value identifies the Inter-Exchange Carrier assigned to
        the subscriber service this object represents.";;
        ATTRIBUTES
            bearerServiceForMultipleRateDataPrimary IC                             GET-REPLACE;
REGISTERED AS  {cAISDNPackage 8};
```

8.9 Lista de servicios portadores

```
bearerServiceListPkg     PACKAGE
        ATTRIBUTES
            bearerServiceList                                                      GET-REPLACE
                                                                                   ADD-REMOVE;
REGISTERED AS  {cAISDNPackage 9};
```

8.10 Referencia de llamada

```
callReferencePkg          PACKAGE
        BEHAVIOUR
        callReferencePkgBhv      BEHAVIOUR
        DEFINED AS "The maxNumberOfCallReference attribute indicates the maximum number of the simultaneous
        layer 3 connections for signalling (SAPI = 0 for all TEIs on this Access Port Profile). It must be at least as large as
        the largest callReferenceBusyLimit attribute (in ISDN Circuit Service Set managed object contained in the Bearer
        Services).";;
        ATTRIBUTES
            maxNumberOfCallReference                                               GET-REPLACE;
REGISTERED AS  {cAISDNPackage 10};
```

8.11 Conversación en modo circuito, IC primaria

```
circuitSpeechPrimaryICPkg          PACKAGE
        ATTRIBUTES
            circuitSpeechPrimaryIC                                  GET-REPLACE;
REGISTERED AS   {cAISDNPackage 11};
```

8.12 Multiuso en modo circuito, IC primaria

```
circuitMultiUsePrimaryICPkg        PACKAGE
        ATTRIBUTES
            circuitMultiUsePrimaryIC                                GET-REPLACE;
REGISTERED AS   {cAISDNPackage 12};
```

8.13 Datos digitales sin restricciones en modo circuito, IC primaria

```
circuitUnrestrictedDigitalDataPrimaryICPkg          PACKAGE
        ATTRIBUTES
            circuitUnrestrictedDigitalDataPrimaryIC                 GET-REPLACE;
REGISTERED AS   {cAISDNPackage 13};
```

8.14 Datos digitales sin restricciones en modo circuito, velocidad adaptada de 56 kbit/s, IC primaria

```
circuitUnrestrictedDigitalDataRateAdaptedFrom56kbpsPrimaryICPkg          PACKAGE
        ATTRIBUTES
            circuitUnrestrictedDigitalDataRateAdaptedFrom56kbpsPrimaryIC    GET-REPLACE;
REGISTERED AS   {cAISDNPackage 14};
```

8.15 Capacidades de desactivación

```
deactivationCapabilitiesPkg          PACKAGE
        ATTRIBUTES
            deactivationCapabilities                                GET-REPLACE;
REGISTERED AS   {cAISDNPackage 15};
```

8.16 Establecimiento de enlace

```
linkSettingPkg          PACKAGE
        ATTRIBUTES
            linkLevelWindowSize                                     GET-REPLACE,
            maxBitsPerInformationFrame                              GET-REPLACE,
            maxTransmissionAttempts                                 GET-REPLACE;
REGISTERED AS   {cAISDNPackage 16};
```

8.17 Gestión de terminal RDSI

```
manageISDNTerminalPackage PACKAGE
        ACTIONS
        establishISDNTerminal invalidReferenceError,
        removeISDNTerminal invalidReferenceError;
REGISTERED AS   {cAISDNPackage 17};
```

8.18 Máximo caudal combinado, canal B

```
maxCombinedThruputBChanPkg                  PACKAGE
        BEHAVIOUR
        maxCombinedThruputBChanPkgBhv     BEHAVIOUR
        DEFINED AS   "This package identifies the maximum combined throughput permitted on the B-Channel.";;
        ATTRIBUTES
            maxCombinedThruputClass                                 REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.null                         GET-REPLACE;
REGISTERED AS   {cAISDNPackage 18};
```

8.19 Máximo caudal combinado, canal D

```
maxCombinedThruputDChanPkg                    PACKAGE
        BEHAVIOUR
        maxCombinedThruputDChanPkgBhv    BEHAVIOUR
        DEFINED AS  "This package identifies the maximum combined throughput permitted on the D-Channel.";;
        ATTRIBUTES
            maxCombinedThruputClass                                    REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.null                            GET-REPLACE;
REGISTERED AS  {cAISDNPackage 19};
```

8.20 Tono suministrado por la red

```
networkProvidedTonePkg          PACKAGE
        ATTRIBUTES
            networkProvidedTones                                       REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.true                            GET-REPLACE;
REGISTERED AS  {cAISDNPackage 20};
```

8.21 Perfil de puerto de acceso nT2, RDSI

```
nT2ISDNaccessPortProfilePkg                   PACKAGE
        BEHAVIOUR
        nT2ISDNAccessPortProfilePkgBhv    BEHAVIOUR
        DEFINED AS  "This object package represents the characteristics of the ISDN Access Port Profile object class to be
        instantied for support of a nT2 (class 2) ISDN interface configuration.";;
        ATTRIBUTES
            earlyCutThruUserProvidedAudibleRing                        GET-REPLACE,
            earlyCutThruRemoteNetworkInterwork                         GET-REPLACE;
REGISTERED AS  {cAISDNPackage 21};
```

8.22 Número de enlaces, canal D

```
numberOfDChannelLinksPkg                      PACKAGE
        BEHAVIOUR
        numberOfDChannelLinksPkgBhv       BEHAVIOUR
        DEFINED AS  "The linkOption attribute is a choice of fixed or an identification of the values for the 4 attributes
        callControlTEItotal, callControlTEIsw, packTEItotal and packTEIsw. The selection of fixed links (which can be
        represented by null) would indicate that there is exactly one signalling data link connection at sapi 0, TEI 0; and one
        packet link at sapi 16, TEI 0. The number of signalling links for the fixed option is 3. This includes one link for the
        signalling access controller at sapi 63, TEI 127.

        The dynamic choice is the default with callControlTEItotal and packTEItotal set to 127 and callControlTEIsw and
        packTEIsw set to 63. Where:

        callControlTEItotal is the total number of TEIs that can be assigned for Call Control,

        callControlTEIsw is either null or is the number of TEIs that can be assigned by the switch for Call Control. The
        null value indicates that the way TEIs are assigned is not controlled.

        packTEItotal is the total number of TEIs that can be assigned for packet,

        packTEIsw is either null or is the number of TEIs that can be assigned by the switch for packet. The null value
        indicates that the way TEIs are assigned is not controlled.

        The number of signalling links must be less than or equal to the sum of callControlTEItotal and packetTEItotal.";;

        ATTRIBUTES
            linkOption                                                 REPLACE-WITH-DEFAULT
            DEFAULT VALUE CAISDNModule.linkOptionDefault               GET-REPLACE,
            numberOfDChannelLinks                                      GET-REPLACE;
REGISTERED AS  {cAISDNPackage 22};
```

8.23 Desactivación facultativa

```
optionalDeactivationPkg          PACKAGE
        ATTRIBUTES
            deactivationCapabilities                                    GET-REPLACE;
REGISTERED AS   {cAISDNPackage 23};
```

8.24 Procedimiento de selección

```
selectionProceduresPkg   PACKAGE
        ATTRIBUTES
            channelSelection                                            GET-REPLACE;
REGISTERED AS   {cAISDNPackage 24};
```

8.25 Temporizadores de DCE

```
x25DCETimersPkg        PACKAGE
        ATTRIBUTES
            "ITU-T Rec. X.282":t1Timer                                  GET-REPLACE,
            "ITU-T Rec. X.282":t2Timer                                  GET-REPLACE,
            "ITU-T Rec. X.282":t3Timer                                  GET-REPLACE,
            "ITU-T Rec. X.282":t4Timer                                  GET-REPLACE,
            "ITU-T Rec. X.282":n1                                       GET-REPLACE,
            "ITU-T Rec. X.282":n2                                       GET-REPLACE,
            "ITU-T Rec. X.282":k                                        GET-REPLACE;
REGISTERED AS   {cAISDNPackage 25};
```

9 Plantillas de atributos

Esta cláusula contiene las definiciones ASN.1 de todos los atributos de las clases de objeto descritas. Estas definiciones determinan la función de los atributos y sus características válidas, tales como sus valores válidos, interdependencias, limitaciones de lectura/escritura, etc. Los atributos son identificados por sus descriptores ASN.1.

9.1 Lista de punteros de canal de acceso

```
accessChannelPtrList          ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.AccessChannelPtrList;
MATCHES FOR SET-INTERSECTION, SET-COMPARISON;
        DEFINED AS  "This is a set-valued attribute whose value(s) points to one or more instances of the Access Channel
        object class.";;
REGISTERED AS   {cAISDNAttribute 1};
```

9.2 Lista de terminales activos

```
activeTerminalList        ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDN Module.ActiveTerminalList;
MATCHES FOR EQUALITY;
        BEHAVIOUR
        activeTerminalListBhv    BEHAVIOUR
        DEFINED AS  "This attribute identifies the active terminals on the interface by the spid, tei., and usid. It is used to
        support maintenance. Spid and usid are allowed to be NULL if spid initialization procedures are not used.";;
REGISTERED AS   {cAISDNAttribute 2};
```

9.3 Asignación de intervalos de tiempo

```
assignmentOfTimeslots        ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.AssignmentOfTimeslots;
MATCHES FOR EQUALITY;
```

BEHAVIOUR
AssignmentOfTimeslotsBehaviour BEHAVIOUR
DEFINED AS "This attribute identifies how timeslots are assigned for wideband (e.g. 384k/sec) bearer services. The channels must always be with a single physical interface (as modeled by access port). However, within the interface the channels may be assigned to:

- **fixed positions of contiguous channels (such as specified by Annex A/I.431 and Annex B/I.431);**
- **loating positions of contiguous channels (the channels must be contiguous but may start at any position within the physical interface that can support that number of contiguous channels;**
- **flexibly to any channels available within the physical interface without regard to whether the channels are contiguous or not.**

Note that this attribute controls how calls are offered to subscribers. It is a network provider option what channel assignments are accepted from subscribers.";;
REGISTERED AS {cAISDNAttribute 3};

9.4 Notificación de XID automática

automaticXIDnotification ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.Boolean;
MATCHES FOR EQUALITY;
BEHAVIOUR
automaticXIDnotificationBhv BEHAVIOUR
DEFINED AS "The XID frames may be exchanged only after the link has been made active. Exchange of XID frames before the link is made active is controlled by "automaticXIDnotification". This Boolean value attribute controls the exchange of XID frames between the switch and the user equipment. A "True" value of the attribute indicates that XID frames can be exchanged between the link controller in the switch and user equipment. A "False" value of the attribute indicates that XID frames cannot be exchanged.";;
REGISTERED AS {cAISDNAttribute 4};

9.5 Servicio portador para IC primaria para datos a 384 kbit/s

bearerServiceFor384kbpsDataPrimaryIC ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.PrimaryIC;
MATCHES FOR EQUALITY;
BEHAVIOUR
bearerServiceFor384kbpsDataPrimaryICBhv BEHAVIOUR
DEFINED AS "This attribute identifies the Primary Inter-Exchange Carrier (PIC) selected by the ISDN 384 kbit/s Data Service Subscriber.";;
REGISTERED AS {cAISDNAttribute 5};

9.6 Servicio portador para IC primaria para datos a 1536 kbit/s

bearerServiceFor1536kbpsDataPrimaryIC ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.PrimaryIC;
MATCHES FOR EQUALITY;
BEHAVIOUR
bearerServiceFor1536kbpsDataPrimaryICBhv BEHAVIOUR
DEFINED AS "This attribute identifies the Primary Inter-Exchange Carrier (PIC) selected by the ISDN 1536 kbit/s Data Service Subscriber.";;
REGISTERED AS {cAISDNAttribute 6};

9.7 Servicio portador para IC primaria para datos a 1920 kbit/s

bearerServiceFor1920DataPrimaryIC ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.PrimaryIC;
MATCHES FOR EQUALITY;
BEHAVIOUR
bearerServiceFor1920kbpsDataPrimaryICBhv BEHAVIOUR
DEFINED AS "This attribute identifies the Primary Inter-Exchange Carrier (PIC) selected by the ISDN 1920 kbit/s Data Service Subscriber.";;
REGISTERED AS {cAISDNAttribute 7};

9.8 Servicio portador para IC primaria para datos a velocidades múltiples

bearerServiceForMultipleRateDataPrimaryIC ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.PrimaryIC;
MATCHES FOR EQUALITY;
BEHAVIOUR
bearerServiceForMultipleRateDataPrimaryICBhv BEHAVIOUR
DEFINED AS "This attribute identifies the Primary Inter-Exchange Carrier (PIC) selected by the ISDN Multiple-Rate kbit/s Data Service Subscriber.";;
REGISTERED AS {cAISDNAttribute 8};

9.9 Lista de servicios portadores

bearerServiceList ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.BearerServiceList;
MATCHES FOR EQUALITY, SET-COMPARISON, SET-INTERSECTION;
BEHAVIOUR
bearerServiceListBhv BEHAVIOUR
DEFINED AS "The bearerServiceList attribute is a list of one or more bearerService types.";;
REGISTERED AS {cAISDNAttribute 9};

9.10 Velocidad binaria de la interfaz de velocidad primaria

bitRateOfPrimaryRateInterface ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.BitRateOfPrimaryRateInterface;
MATCHES FOR SET-INTERSECTION, SET-COMPARISON;
BEHAVIOUR
bitRateOfPrimaryRateInterfaceBhvBEHAVIOUR
DEFINED AS "This attribute indicates bit rate of Primary rate interface. When the value of this attribute is "rate1544", the bit rate of interface is 1544 kbit/s.When the value of this attribute is "rate2048", the bit rate of interface is 2048 kbit/s.";;
REGISTERED AS {cAISDNAttribute 10};

9.11 Identificador de cribado de número llamante

callingNumberScreeningId ATTRIBUTE
WITH ATTRIBUTE SYNTAX CAISDNModule.NameType;
MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;
BEHAVIOUR
callingNumberScreeningIdBhv BEHAVIOUR
DEFINED AS "This is the naming attribute of the calling number screening managed object. If the string choice for the syntax is used, matching on the substings is permitted. If the number choice for the syntax is used, then matching on the ordering is permitted.";;
REGISTERED AS {cAISDNAttribute 11};

9.12 Id de LAPD de entidad de capa catalogado

cataloguedLayerEntityLAPDId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CACommonModule.NameType;
MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;
BEHAVIOUR
cataloguedLayerEntityLAPDIdBhv BEHAVIOUR
DEFINED AS "This is a naming attribute of the Access Channel managed object. If the string choice for the syntax is used, matching on the substrings is permitted. If the number choice for the syntax is used, then matching on ordering is permitted.";;
REGISTERED AS {cAISDNAttribute 12};

9.13 IC primaria para audio en modo circuito

circuitAudioPrimaryIC ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.PrimaryIC;
MATCHES FOR EQUALITY;
BEHAVIOUR
circuitAudioPrimaryICBhv BEHAVIOUR
DEFINED AS "This attribute represents the Primary Inter-Exchange Carrier (PIC) selected by the bearerServiceAudio service subscriber.";;
REGISTERED AS {cAISDNAttribute 13};

9.14 IC primaria para multiuso en modo circuito

circuitMultiUsePrimaryIC ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.PrimaryIC;
MATCHES FOR EQUALITY;
BEHAVIOUR
circuitMultiUsePrimaryICBhv BEHAVIOUR
DEFINED AS "This attribute represents the Primary Inter-Exchange Carrier (PIC) selected by the circuitMultiUse service subscriber.";;
REGISTERED AS {cAISDNAttribute 14};

9.15 IC primaria para datos digitales sin restricciones en modo circuito a velocidad adaptada de 56 kbit/s

circuitUnrestrictedDigitalDataRateAdaptedFrom56kbpsPrimaryIC ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.PrimaryIC;
MATCHES FOR EQUALITY;
BEHAVIOUR
circuitUnrestrictedDigitalDataRateAdaptedFrom56kbpsPrimaryICBhv BEHAVIOUR
DEFINED AS "This attribute represents the Primary Inter-Exchange Carrier (PIC) selected by the circuitUnrestrictedDigitalDataRateAdaptedFrom56kbps service subscriber.";;
REGISTERED AS {cAISDNAttribute 15};

9.16 IC primaria para conversación en modo circuito

circuitSpeechPrimaryIC ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.PrimaryIC;
MATCHES FOR EQUALITY;
BEHAVIOUR
circuitSpeechPrimaryICBhv BEHAVIOUR
DEFINED AS "This attribute represents the Primary Inter-Exchange Carrier (PIC) selected by the CircuitSpeech service subscriber.";;
REGISTERED AS {cAISDNAttribute 16};

9.17 IC primaria para datos digitales sin restricciones en modo circuito

circuitUnrestrictedDigitalDataPrimaryIC ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.PrimaryIC;
MATCHES FOR EQUALITY;
BEHAVIOUR
circuitUnrestrictedDigitalDataPrimaryICBhv BEHAVIOUR
DEFINED AS "This attribute represents the Primary Inter-Exchange Carrier (PIC) selected by the circuitUnrestrictedDigitalData service subscriber.";;
REGISTERED AS {cAISDNAttribute 17};

9.18 Número de directorio por defecto de la parte llamante

callingPartyDefaultDN ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.CallingPartyDefaultDirectoryNumber;
MATCHES FOR EQUALITY;

BEHAVIOUR
callingPartyDefaultDNBhv BEHAVIOUR
DEFINED AS "The attribute is applicable only if the Calling Party Number Provision Necessary attribute is set to the boolean value FALSE. The value(s) of this attribute is the calling party number default Directory Number(s) to be used for billing purposes when the calling party numbers are not provided by the CPE. The attribute value choices may be either one Default Directory Number with the choice ALL specified (indicating that the Default DN applies to all bearer services assigned to the Directory Number), or a list of Directory Numbers per bearer service. The attribute value set may be 1 to 3 sequences. The form of each sequence within the value set is: <Directory Number>,<bearer service>|ALL
The bearer service(s) type must be part of the set of values of the bearer service attribute.";;
REGISTERED AS {cAISDNAttribute 18};

9.19 Control de descarte de número de la parte llamante

callingPartyNumberDiscardCtrl ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.Boolean;
MATCHES FOR EQUALITY;
BEHAVIOUR
callingPartyNumberDiscardCtrlBhv BEHAVIOUR
DEFINED AS "When the value of this attribute is "TRUE" (default), the switch discards user supplied Directory Numbers, Directory Numbers not screened or that failed screening, and calling party numbers when they occur and uses a single default Directory Number as the calling party number. If the attribute value is "FALSE", the discard feature does not apply. If the Calling Party Number Provision Necessary attribute = "TRUE", then the value of this attribute should be "FALSE". This attribute is only applicable to ISDN services.";;
REGISTERED AS {cAISDNAttribute 19};

9.20 Necesidad de suministrar el número de la parte llamante

callingPartyNumberProvisionNecessary ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.Boolean;
MATCHES FOR EQUALITY;
BEHAVIOUR
callingPartyNumberProvisionNecessaryBhv BEHAVIOUR
DEFINED AS "When the value of this attribute is FALSE, the call processing will accept any call originations from this access line without the calling party number information being given. When the value of this attribute is FALSE, the value of the callingPartyDefaultDN attribute is assumed as the originating directory number for billing purposes. The default value of this attribute is FALSE.
The attribute value TRUE means that calling party information is required by call processing and if the information is not provided by the CPE on a call origination, the call processing should reject the call.";;
REGISTERED AS {cAISDNAttribute 20};

9.21 Lista de números de directorio de parte llamante válidos

callingPartyValidDirectoryNumberList ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.CallingPartyValidDirectoryNumberList;
MATCHES FOR EQUALITY, SET-COMPARISON, SET-INTERSECTION;
BEHAVIOUR
callingPartyValidDirectoryNumberListBhv BEHAVIOUR
DEFINED AS "This set-value attribute identifies the individual directory numbers that originate calls from an instance of the ISDN Access Port object class.";;
REGISTERED AS {cAISDNAttribute 21};

9.22 Id de puerto de acceso catalogado a velocidad primaria RDSI

cataloguedAccessPortISDNPrimaryRateId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.NameType;
MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;
BEHAVIOUR
cataloguedAccessPortISDNPrimaryRateIdBhv BEHAVIOUR
DEFINED AS "This is a naming attribute. If the string choice for the syntax is used, matching on the substrings is permitted. If the number choice for the syntax is used, then matching on ordering is permitted.";;
REGISTERED AS {cAISDNAttribute 22};

9.23 Id de perfil de puerto de acceso catalogado RDSI

cataloguedAccessPortProfileISDNId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.NameType;
MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;
BEHAVIOUR
cataloguedAccessPortProfileISDNIdBhv BEHAVIOUR
DEFINED AS "This is a naming attribute. If the string choice for the syntax is used, matching on the substrings is permitted. If the number choice for the syntax is used, then matching on ordering is permitted.";;
REGISTERED AS {cAISDNAttribute 23};

9.24 Id de DSS 1 de entidad de capa catalogado

cataloguedLayerEntityDSS1Id ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.NameType;
MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;
BEHAVIOUR
cataloguedLayerEntityDSS1IdBhv BEHAVIOUR
DEFINED AS "This is a naming attribute. If the string choice for the syntax is used, matching on the substrings is permitted. If the number choice for the syntax is used, then matching on ordering is permitted.";;
REGISTERED AS {cAISDNAttribute 24};

9.25 Selección de canal

channelSelection ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.ChannelSelection;
MATCHES FOR EQUALITY;
BEHAVIOUR
channelSelectionBhv BEHAVIOUR
DEFINED AS "This attribute is used to set the B-channel selection procedure from the network to the user. The selection procedure is shown in 5.2.3.1/Q.931. The value byNetwork(0) means that the channel is indicated by the network which corresponds to items 1) and 2) in 5.2.3.1/Q.931 and by user (1) means that any channel is acceptable which corresponds to item 3) in 5.2.3.1/Q.931.";;
REGISTERED AS {cAISDNAttribute 25};

9.26 Número de directorio por defecto, modo paquete, canal D

dChannelPacketDefaultDirectoryNumber ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.DirectoryNumber;
MATCHES FOR EQUALITY;
BEHAVIOUR
dChannelPacketDefaultDirectoryNumberBhv BEHAVIOUR
DEFINED AS "The value of this attribute is a Numeric string representing a particular default Directory Number (Directory Number) from the set of Directory Numbers listed in the DChannelDirectoryNumberList attribute. This Directory Number is used when no X.25 Calling Address is provided due to the caller using in-band procedures.";;
REGISTERED AS {cAISDNAttribute 26};

9.27 Lista de números de directorio, modo paquete, canal D

dChannelPacketDirectoryNumberList ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.DirectoryNumberList;
MATCHES FOR EQUALITY;
BEHAVIOUR
dChannelPacketDirectoryNumberListBhv BEHAVIOUR
DEFINED AS "The value(s) of this attribute are 1 or more Numeric strings representing the Directory Numbers (Directory Number) that provide a Directory Number screening set for use over a D-Channel packet connection (LAPD SAPI address field set to Packet Control).";;
REGISTERED AS {cAISDNAttribute 27};

9.28 Puntero primario, canal D

```
dChannelPrimaryPtr              ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.ObjectInstance;
MATCHES FOR EQUALITY, SET-COMPARISON, SET-INTERSECTION;
        BEHAVIOUR
        dChannelPrimaryPtrBhv           BEHAVIOUR
        DEFINED AS  "The dChannelPrimaryPtr attribute of the ISDN Access Port Profile Primary Rate object class and
        identifies the primary D-Channel object.";;
REGISTERED AS   {cAISDNAttribute 28};
```

9.29 Puntero secundario, canal D

```
dChannelSecondaryPtr            ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.ObjectInstance;
MATCHES FOR EQUALITY, SET-COMPARISON, SET-INTERSECTION;
        BEHAVIOUR
        dChannelSecondaryPtrBhv         BEHAVIOUR
        DEFINED AS  "This is pointer to the optional backup D-Channel primary rate resource object instance for a
        Primary Rate Access.";;
REGISTERED AS   {cAISDNAttribute 29};
```

9.30 T301, canal D

```
dChannelT301                ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.DChannelT3xx;
MATCHES FOR EQUALITY;
        BEHAVIOUR
        dChannelT301Bhv             BEHAVIOUR
        DEFINED AS  "This attribute provides the value of call control timer T301 defined in Q.931.";;
REGISTERED AS   {cAISDNAttribute 30};
```

9.31 T303, canal D

```
dChannelT303                ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.DChannelT3xx;
MATCHES FOR EQUALITY;
        BEHAVIOUR
        dChannelT303Bhv             BEHAVIOUR
        DEFINED AS  "This attribute provides the value of call control timer T303 defined in Q.931.";;
REGISTERED AS   {cAISDNAttribute 31};
```

9.32 T304, canal D

```
dChannelT304                ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.DChannelT3xx;
MATCHES FOR EQUALITY;
        BEHAVIOUR
        dChannelT304Bhv             BEHAVIOUR
        DEFINED AS  "This attribute provides the value of call control timer T304 defined in Q.931.";;
REGISTERED AS   {cAISDNAttribute 32};
```

9.33 T305, canal D

```
dChannelT305                ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.DChannelT3xx;
MATCHES FOR EQUALITY;
        BEHAVIOUR
        dChannelT305Bhv             BEHAVIOUR
        DEFINED AS  "This attribute provides the value of call control timer T305 defined in Q.931.";;
REGISTERED AS  {cAISDNAttribute 33};
```

9.34 T306, canal D

```
dChannelT306                ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.DChannelT3xx;
MATCHES FOR EQUALITY;
        BEHAVIOUR
        dChannelT306Bhv             BEHAVIOUR
        DEFINED AS  "This attribute provides the value of call control timer T306 defined in Q.931.";;
REGISTERED AS  {cAISDNAttribute 34};
```

9.35 T307, canal D

```
dChannelT307                ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.DChannelT3xx;
MATCHES FOR EQUALITY;
        BEHAVIOUR
        dChannelT307Bhv             BEHAVIOUR
        DEFINED AS  "This attribute provides the value of call control timer T307 defined in Q.931.";;
REGISTERED AS  {cAISDNAttribute 35};
```

9.36 T308, canal D

```
dChannelT308                ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.DChannelT3xx;
MATCHES FOR EQUALITY;
        BEHAVIOUR
        dChannelT308Bhv             BEHAVIOUR
        DEFINED AS  "This attribute provides the value of call control timer T308 defined in Q.931.";;
REGISTERED AS  {cAISDNAttribute 36};
```

9.37 T309, canal D

```
dChannelT309              ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.DChannelT3xx;
MATCHES FOR EQUALITY;
        BEHAVIOUR
        dChannelT309Bhv             BEHAVIOUR
        DEFINED AS  "This attribute provides the value of call control timer T309 defined in Q.931.";;
REGISTERED AS  {cAISDNAttribute 37};
```

9.38 T310, canal D

```
dChannelT310              ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.DChannelT3xx;
MATCHES FOR EQUALITY;
```

```
        BEHAVIOUR
        dChannelT310Bhv                 BEHAVIOUR
        DEFINED AS  "This attribute provides the value of call control timer T310 defined in Q.931.";;
REGISTERED AS  {cAISDNAttribute 38};
```

9.39 T312, canal D

```
dChannelT312            ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.DChannelT3xx;
MATCHES FOR EQUALITY;
        BEHAVIOUR
        dChannelT312Bhv                 BEHAVIOUR
        DEFINED AS  "This attribute provides the value of call control timer T312 defined in Q.931.";;
REGISTERED AS  {cAISDNAttribute 39};
```

9.40 T314, canal D

```
dChannelT314            ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.DChannelT3xx;
MATCHES FOR EQUALITY;
        BEHAVIOUR
        dChannelT314Bhv                 BEHAVIOUR
        DEFINED AS  "This attribute provides the value of call control timer T314 defined in Q.931.";;
REGISTERED AS  {cAISDNAttribute 40};
```

9.41 T316, canal D

```
dChannelT316            ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.DChannelT3xx;
MATCHES FOR EQUALITY;
        BEHAVIOUR
        dChannelT316Bhv                 BEHAVIOUR
        DEFINED AS  "This attribute provides the value of call control timer T316 defined in Q.931.";;
REGISTERED AS  {cAISDNAttribute 41};
```

9.42 T317, canal D

```
dChannelT317            ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.DChannelT3xx;
MATCHES FOR EQUALITY;
        BEHAVIOUR
        dChannelT317Bhv                 BEHAVIOUR
        DEFINED AS  "This attribute provides the value of call control timer T317 defined in Q.931.";;
REGISTERED AS  {cAISDNAttribute 42};
```

9.43 T320, canal D

```
dChannelT320            ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.DChannelT3xx;
MATCHES FOR EQUALITY;
        BEHAVIOUR
        dChannelT320Bhv                 BEHAVIOUR
        DEFINED AS  "This attribute provides the value of call control timer T320 defined in Q.931.";;
REGISTERED AS  {cAISDNAttribute 43};
```

9.44 T321, canal D

dChannelT321 ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.DChannelT3xx;
MATCHES FOR EQUALITY;
BEHAVIOUR
dChannelT321Bhv BEHAVIOUR
DEFINED AS "This attribute provides the value of call control timer T321 defined in Q.931.";;
REGISTERED AS {cAISDNAttribute 44};

9.45 T322, canal D

dChannelT322 ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.DChannelT3xx;
MATCHES FOR EQUALITY;
BEHAVIOUR
dChannelT322Bhv BEHAVIOUR
DEFINED AS "This attribute provides the value of call control timer T322 defined in Q.931.";;
REGISTERED AS {cAISDNAttribute 45};

9.46 T330, canal D

dChannelT330 ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.DChannelT3xx;
MATCHES FOR EQUALITY;
BEHAVIOUR
dChannelT330Bhv BEHAVIOUR
DEFINED AS "This attribute provides the value of call control timer T330 defined in Q.931.";;
REGISTERED AS {cAISDNAttribute 46};

9.47 Capacidades de desactivación

deactivationCapabilities ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.Boolean;
MATCHES FOR EQUALITY;
BEHAVIOUR
deactivationCapabilitiesBhv BEHAVIOUR
DEFINED AS "This attribute indicates whether the exchange supports deactivation or not. In the APP, this attribute is a boolean with the true value stating that the APP supports deactivation by the user; the false value indicates that the APP supports only permanent deactivation. In the layer 2 entity, this attribute indicates whether signalling or information entity support deactivation by the user or not. The attribute is a boolean; the false value is only possible if the same attribute in the ISDN APP is also false.";;
REGISTERED AS {cAISDNAttribute 47};

9.48 Lista de identificadores de aparición de número de directorio

directoryNumberAppearanceIdentifierList ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule. DirectoryNumberAppearanceIdentifierList;
MATCHES FOR EQUALITY, SET-COMPARISON, SET-INTERSECTION;
BEHAVIOUR
directoryNumberAppearanceIdentifierBhv BEHAVIOUR
DEFINED AS "This attribute identifies the terminal controlled call appearance identifier information for each DN associated with the Terminal Service Profile. These call appearance identifiers are not used for call set-up or for compatibility checks for incoming calls. This information is simply used for associating a DN with a particular key on a terminal. This attribute also identifies the default bearer service associated with each terminal controlled call appearance. This BS information can be used in originating calls, if not overridden by the user.";;
REGISTERED AS {cAISDNAttribute 48};

9.49 Referencia de número de directorio

directoryNumberReference ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.DirectoryNumberReference;
MATCHES FOR EQUALITY;
BEHAVIOUR
DirectoryNumberReferenceBhv BEHAVIOUR
DEFINED AS "The function of this set-valued attribute is to assign a logical number (integer) to each Directory Number/Bearer service pair associated with this TSP. This attribute is used in the attribute value structure of the Feature Activators per Directory Number/BS (FADN) and Feature Indicators per Directory Number/BS (FIDN) attributes of the Terminal Configuration object class instance associated with this TSP. The set of value(s) of this attribute are each of the following sequence:

<DirectoryNumberR>,<DirectoryNumber>,<BS>

where:

DirectoryNumberR is an integer in the range from 1 to 128, which is the Directory Number/BS reference number used by attributes of the associated TCGN object associated with this TSP object,

Directory Number is the Directory Number to which the DirectoryNumberR is assigned.

BS is the ISDN bearer service contained in the Directory Number Profile managed object.";;
REGISTERED AS {cAISDNAttribute 49};

9.50 Compatibilidad con el DTE

dTECompatibilty ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.DTECompatibility;
MATCHES FOR EQUALITY;
BEHAVIOUR
dTECompatibiltyBhv BEHAVIOUR
DEFINED AS "The value of this attribute provides compatibility with DTE built to 1980, 1984, 1988 or 1993 X.25 specifications.";;
REGISTERED AS {cAISDNAttribute 50};

9.51 Interfuncionamiento con red distante en caso de corte prematuro

earlyCutThruRemoteNetworkInterwork ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.Boolean;
MATCHES FOR EQUALITY;
BEHAVIOUR
earlyCutThruRemoteNetworkInterworkBhv BEHAVIOUR
DEFINED AS "This attribute indicates whether the procedures described in Annex K/Q.931are activated or not. It is a boolean value that is associated with the attribute earlyCutThruUserProvidedAudibleRing. If earlyCutThruUserProvidedAudibleRing is true, earlyCutThruRemoteNetworkInterwork must be true to allow the PBX to return the tone back towards the network.";;
REGISTERED AS {cAISDNAttribute 51};

9.52 Tono audible proporcionado al usuario en caso de corte prematuro

earlyCutThruUserProvidedAudibleRing ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.Boolean;
MATCHES FOR EQUALITY;
BEHAVIOUR
earlyCutThruUserProvidedAudibleRingBhv BEHAVIOUR
DEFINED AS "This attribute indicates whether the exchange provides users with tone or not. It is a boolean, with the true value indicating that the exchange is not providing the tones while early cut through is provided.";;
REGISTERED AS {cAISDNAttribute 52};

9.53 Activadores de característica para todos los números de directorio

featureActivatorsAllDirectoryNumber ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.FeatureActivator;
MATCHES FOR EQUALITY;
BEHAVIOUR
featureActivatorsAllDirectoryNumberBhv BEHAVIOUR
DEFINED AS "This attribute, (FA), is a set-valued attribute of the Terminal Configuration object class. This attribute identifies Feature Activators for features which have the same value for all Directory Number/BSs on an ISDN terminal. This attribute identifies Feature Activators for TSP features to be applied to all Directory Number/BS pairs identified on an ISDN terminal. At least 64 feature activators should be assignable for the combination of the FA and FADirectoryNumber TCGN features. Each value in the set is a sequence of data items in the following format:
n, <ObjectID>
where: an integer in the range of 0 to 16383, identifying a Feature Activator value to be sent by an ISDN terminal when the user activates a key, The identifier of a Service Feature Object, in ASN.1 format.";;
REGISTERED AS {cAISDNAttribute 53};

9.54 Activadores de característica por número de directorio

featureActivatorsPerDirectoryNumber ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.FeatureActivator;
MATCHES FOR EQUALITY;
BEHAVIOUR
featureActivatorsPerDirectoryNumberBhv BEHAVIOUR
DEFINED AS "This attribute is a set-valued attribute of the Terminal Configuration object class. This attribute identifies Feature Activators for TSP features requiring different values for each Directory Number/BS pair on an ISDN terminal. This feature is operable only for specific Directory Number/CT pairs identified by the Directory Number Reference attribute in the TSP object associated with this TCGN object. At least 64 feature activators should be assignable for the combination of the FA and FADirectoryNumber TCGN features. Each value in the set is a sequence of data items in the following format: n, m, <ObjectID>
where: an integer in the range of 0 to 16383, identifying a Feature Activator value to be sent by an ISDN terminal when the user activates a key, an integer in the range of 1 to 128, representing the Directory Number Reference that specifically identifies a Directory Number/BS pair to which the Feature Activator is assigned, The identifier of a Service Feature Object in ASN.1 format.";;
REGISTERED AS {cAISDNAttribute 54};

9.55 Activadores de característica grupo de búsqueda ocupado

featureActivatorsPerHuntMakeBusy ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.FeatureActivator;
MATCHES FOR EQUALITY;
BEHAVIOUR
featureActivatorsPerHuntMakeBusyBhv BEHAVIOUR
DEFINED AS "This attribute identifies Feature Activators used to activate and deactivate the Hunt Make Busy application on an ISDN Terminal.";;
REGISTERED AS {cAISDNAttribute 55};

9.56 Activadores de característica parar búsqueda

featureActivatorsPerStopHunt ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.FeatureActivator;
MATCHES FOR EQUALITY;
BEHAVIOUR
featureActivatorsPerStopHuntBhv BEHAVIOUR
DEFINED AS "This attribute identifies Feature Activators used to activate and deactivate the Stop Hunt application on an ISDN terminal.";;
REGISTERED AS {cAISDNAttribute 56};

9.57 Indicadores de característica para todos los números de directorio

featureIndicatorsAllDirectoryNumber ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.FeatureIndicator;
MATCHES FOR EQUALITY;
BEHAVIOUR
featureIndicatorsAllDirectoryNumberBhv BEHAVIOUR
DEFINED AS "This set-valued attribute identifies Feature Indicators at an ISDN terminal for features which have the same value for all Directory Number/BS. At least 64 feature indicators may be assignable to a given terminal. Each attribute value in the set is a sequence of data items in the following format:

n,<Object ID>

where:

n = an integer in the range of 0 to 16383, identifying a Feature Indicator value to be received by an ISDN terminal to light a particular lamp at the terminal,

Object ID = The identifier a supplementary feature to be which this indicator is assigned.";;
REGISTERED AS {cAISDNAttribute 57};

9.58 Indicadores de característica por número de directorio

featureIndicatorsPerDirectoryNumber ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.FeatureIndicatorsPerDirectoryNumber;
MATCHES FOR EQUALITY;
BEHAVIOUR
featureIndicatorsPerDirectoryNumberBhv BEHAVIOUR
DEFINED AS "This attribute is a set-valued attribute of the Terminal Configuration (TCGN) object class. This attribute identifies Feature Indicators for TSP features requiring different values for each Directory Number/BS pair on an ISDN terminal. This feature indication applies only for specific Directory Number/CT pairs identified by the Directory Number Reference attribute in the TSP object associated with this TCGN object. At least 64 feature activators should be assignable for the combination of the FI and FIDirectoryNumber TCGN features. Each value in the set is a sequence of data items in the following format:
n, m, <Object ID>
where: An integer in the range of 0 to 16383, identifying a Feature Indicator or value to be returned to an ISDN terminal indicating the status of the assigned feature, an integer in the range of 1 to 128, representing the Directory Number Reference, (DirectoryNumberR), that specifically identifies a DirectoryNumber/BS pair to which the Feature Indicator is assigned, The identifier of a Service Feature Object in ASN.1 format. ";;
REGISTERED AS {cAISDNAttribute 58};

9.59 Indicadores de característica grupo de búsqueda ocupado

featureIndicatorsPerHuntMakeBusy ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.FeatureActivatorValue;
MATCHES FOR EQUALITY;
BEHAVIOUR
featureIndicatorsPerHuntMakeBusyBhv BEHAVIOUR
DEFINED AS "This attribute identifies the Feature Indicator that displays the status of the Make Busy application on an ISDN terminal.";;
REGISTERED AS {cAISDNAttribute 59};

9.60 Indicadores de característica parar búsqueda

featureIndicatorsPerStopHunt ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.FeatureActivatorValue;
MATCHES FOR EQUALITY;
BEHAVIOUR
featureIndicatorsPerStopHuntBhv BEHAVIOUR

DEFINED AS "This attribute identifies the Feature Indicator that displays the status of the Stop Hunt application on an ISDN terminal.";;
REGISTERED AS {cAISDNAttribute 60};

9.61 Clase de caudal por defecto entrante

incomingDefaultThruputClass ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.ThruputClass;
MATCHES FOR EQUALITY;
BEHAVIOUR
incomingDefaultThruputClassBhv BEHAVIOUR
DEFINED AS "The values of this attribute identify selections of the default throughput class for the incoming direction on the B- or D-Channels. ";;
REGISTERED AS {cAISDNAttribute 61};

9.62 Tamaño máximo de paquete entrante

incomingMaxPacketSize ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.PacketSize;
MATCHES FOR EQUALITY;
BEHAVIOUR
incomingMaxPacketSizeBhv BEHAVIOUR
DEFINED AS "The function of this attribute is to allow the subscriber to choose a maximum packet size (different from the default of 128 provided by the network) for the incoming direction on the B- or D-Channels.

The enumerated choice value of this attribute is one of the following, representing the maximum allowable packet size for a logical channel which does not include Private Virtual Circuits (PVC).

- **16 (octets)**
- **32 (octets)**
- **64 (octets)**
- **128 (octets)**
- **256 (octets)**
- **512 (octets)**
- **1024 (octets)**
- **2048 (octets)**
- **4096 (octets)";;**

REGISTERED AS {cAISDNAttribute 62};

9.63 Tamaño de ventana entrante

incomingWindowSize ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.WindowSize;
MATCHES FOR EQUALITY;
BEHAVIOUR
incomingWindowSizeBhv BEHAVIOUR
DEFINED AS "This attribute is an attribute of the Packet Switched Subscriber Services object class. The value of this attribute allows for the subscription to non-standard default window sizes for the incoming direction. The attribute value is an integer whose range of permissible values depends upon the value of the Packet Level Sequencing (PLSQ) attribute. If modulo 8 sequencing is specified by PLSQ, the permissible range of the IWS integer is 1 to 7. If modulo 128 is specified by PLSQ, the range of permissible values for IWS is 1 to 60 (61 to 127 is desirable).";;
REGISTERED AS {cAISDNAttribute 63};

9.64 Tipo de interfaz

interfaceType ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.InterfaceType;
MATCHES FOR EQUALITY;
BEHAVIOUR
interfaceTypeBhv BEHAVIOUR

DEFINED AS "This attribute indicates whether channel access is provided via a basic or a primary rate interface.";;
REGISTERED AS {cAISDNAttribute 64};

9.65 Puntero de entidad de información de capa 2

layer2InfoEntityPtr ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.ObjectInstance;
MATCHES FOR EQUALITY;
BEHAVIOUR
layer2InfoEntityPtrBhv BEHAVIOUR
DEFINED AS "This attribute is used as a pointer to an instance of the Layer2InfoEntity managed object class.";;
REGISTERED AS {cAISDNAttribute 65};

9.66 Puntero de LAPD de entidad de capa

layerEntityLAPDPtr ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.ObjectInstance;
MATCHES FOR EQUALITY;
BEHAVIOUR
layerEntityLAPDPtrBhv BEHAVIOUR
DEFINED AS "This attribute is used as a pointer to an instance of the Layer2LAPDEntity managed object class.";;
REGISTERED AS {cAISDNAttribute 66};

9.67 Puntero de entidad de información de capa 3

layer3InfoEntityPtr ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.ObjectInstance;
MATCHES FOR EQUALITY;
BEHAVIOUR
layer3InfoEntityPtrBhv BEHAVIOUR
DEFINED AS "This attribute is used as a pointer to an instance of the Layer3InfoEntity managed object class.";;
REGISTERED AS {cAISDNAttribute 67};

9.68 Tamaño de ventana de nivel enlace

linkLevelWindowSize ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.WindowSize;
MATCHES FOR EQUALITY;
BEHAVIOUR
linkLevelWindowSizeBhv BEHAVIOUR
DEFINED AS "This attribute specifies the link layer window size as defined in Q.921. The linkLevelWindowSize attribute value determines the number of packets allowed in a packet window. The permissible values of this attribute are a range of integer values between 1 and 60, with the following conditions:

- **if the linkLevelFrameSequence attribute is 0, (Modulo 8 frame sequence), the value range of the linkLevelWindowSize attribute is 1 to 7,**
- **if the linkLevelFrameSequence attribute is 1, (Modulo 128 frame sequence), the value range of the linkLevelWindowSize attribute is 1 to 127.";;**

REGISTERED AS {cAISDNAttribute 68};

9.69 Opción de enlace

linkOption ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.LinkOption;
MATCHES FOR EQUALITY;

BEHAVIOUR
linkOptionBhv BEHAVIOUR
DEFINED AS "This attribute defines whether the user has subscribed to dynamic or static tei assignment.";;
REGISTERED AS {cAISDNAttribute 69};

9.70 Máximo de bits por trama de información

maxBitsPerInformationFrame ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.MaxBitsPerInformationFrame;
MATCHES FOR EQUALITY;
BEHAVIOUR
maxBitsPerInformationFrameBhv BEHAVIOUR
DEFINED AS "This attribute determines the maximum number of bits allowed in the Information frame on LAPB over the B-Channel. The values permissible for this attribute is a single choice from the following enumerated list: 2120, 4168, 8264, 16456, 32840.";;
REGISTERED AS {cAISDNAttribute 70};

9.71 Máximo combinado de las clases de caudal

maxCombinedThruputClass ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.MaxCombinedThruputClass;
MATCHES FOR EQUALITY;
BEHAVIOUR
maxCombinedThruputClassBhv BEHAVIOUR
DEFINED AS "This attribute determines the maximum value for the sum of the throughput classes allowed on the B-channel before the switch classifies that the channel is busy. The attribute value is either an alphanumeric string "NULL" (default) or a discrete numeric rate value.";;
REGISTERED AS {cAISDNAttribute 71};

9.72 Número máximo de referencias de llamada

maxNumberOfCallReference ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.MaxNumberOfCallReference;
MATCHES FOR EQUALITY;
BEHAVIOUR
maxNumberOfCallReferenceBhv BEHAVIOUR
DEFINED AS "This attribute indicates the maximum number of the simultaneous layer 3 connections for signalling (SAPI = 0 for all TEIs on this Access Port Profile).";;
REGISTERED AS {cAISDNAttribute 72};

9.73 Máximo de tentativas de transmisión

maxTransmissionAttempts ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.MaxTransmissionAttempts;
MATCHES FOR EQUALITY;
BEHAVIOUR
maxTransmissionRequestsBhv BEHAVIOUR
DEFINED AS "This attribute specifies the maximum number of attempts allowed on the B-Channel to complete a successful transmission. The value of this attribute is an integer in the range from 2 through 15, directly representing the maximum permissable attempts. The default value of this attribute is 3.";;
REGISTERED AS {cAISDNAttribute 73};

9.74 Tonos suministrados por la red

networkProvidedTones ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.Boolean;
MATCHES FOR EQUALITY;
BEHAVIOUR
networkProvidedTonesBhv BEHAVIOUR

DEFINED AS "This attribute indicates that a tone and/or announcement is to be provided by the network to indicate the progress or otherwise the status of a call. It is a Boolean attribute with a deafult value of true, as defined in I.231, which means that tones are provided by the network.";;
REGISTERED AS {cAISDNAttribute 74};

9.75 Identificación de usuario de red

networkUserIdentification ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.Boolean;
MATCHES FOR EQUALITY;
BEHAVIOUR
networkUserIdentificationBhv BEHAVIOUR
DEFINED AS "This is a boolean attribute that determines Network User Identification (NUI) capability for a Packet Mode user. When the value of this attribute is TRUE, the interface is configured to allow NUI selection facility to be provided to the network for billing, security or network management purposes on a per call basis. When FALSE, the NUI capability is not assigned to this access interface.";;
REGISTERED AS {cAISDNAttribute 75};

9.76 Contraorden de identificación de usuario de red

networkUserIdentificationOverride ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.Boolean;
MATCHES FOR EQUALITY;
BEHAVIOUR
networkUserIdentificationOverrideBhv BEHAVIOUR
DEFINED AS "This is a boolean attribute that determines Network User Identification (NUI) override capabilty. This attribute value is applicable only if the networkUserId attribute value is TRUE, indicating that the interface is configured to allow NUI selection facility to be provided to the network for billing, security or network management purposes on a per call basis. When this attribute value is TRUE, the interface is configured so that the NUI information may be associated with a user profile that will be used for the duration of the call. When FALSE, the NUI Override capability is not assigned to this access interface.";;
REGISTERED AS {cAISDNAttribute 76};

9.77 Selección de identificación de usuario de red

networkUserIdentificationSelection ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAOptionalUserFacilitiesModule.Boolean;
MATCHES FOR EQUALITY;
BEHAVIOUR
networkUserIdentificationSelectionBhv BEHAVIOUR
DEFINED AS "This is a boolean attribute that determines Network User Identification (NUI) Selection and Acceptance capability. This attribute value is applicable only if the networkUserIdentification attribute value is TRUE, indicating that the interface is configured to allow NUI selection facility to be provided to the network for billing, security or network management purposes on a per call basis. When the value of this attribute is TRUE, the NUI selection may be signalled in Call Accepted packets. When FALSE, the NUI Selection is not permitted in Call Accepted packets.";;
REGISTERED AS {cAISDNAttribute 77};

9.78 Suplemento de identificación de usuario de red

networkUserIdentificationSupplement ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAOptionalUserFacilitiesModule.Boolean;
MATCHES FOR EQUALITY;
BEHAVIOUR
networkUserIdentificationSupplementBhv BEHAVIOUR

DEFINED AS "This is a boolean attribute that determines Network User Identification (NUI) Supplemental User Identification (SUI) capabilty. This attribute value is applicable only if the networkUserIdentification attribute value is TRUE, indicating that the interface is configured to allow NUI selection facility to be provided to the network for billing, security or network management purposes on a per call basis. When the value of this attribute is TRUE, the Packet Handler Function (PHF) is configured to signal SUI information. When FALSE, the PHF is not configured for SUI.";;
REGISTERED AS {cAISDNAttribute 78};

9.79 Validación de usuario de identificación de usuario de red

networkUserIdentificationUserValidate ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAOptionalUserFacilitiesModule.Boolean;
MATCHES FOR EQUALITY;
BEHAVIOUR
networkUserIdentificationUserValidateBhv BEHAVIOUR
DEFINED AS "This is a boolean attribute that determines Network User Identification (NUI) user validation capabilty. This attribute value is applicable only if the networkUserIdentification attribute value is TRUE, indicating that the interface is configured to allow NUI selection facility to be provided to the network for billing, security or network management purposes on a per call basis. When the attribute value is TRUE, validated NUI values may be passed over the interface from the user to the network and unvalidated NUI values may be passed over the interface from the network to the user. The default value is FALSE, indicating that user validation is not allowed.";;
REGISTERED AS {cAISDNAttribute 79};

9.80 Clase de notificación

notificationClass ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.NotificationClass;
MATCHES FOR EQUALITY;
BEHAVIOUR
notificationClassBhv BEHAVIOUR
DEFINED AS "The value of this attribute indicates whether the packet bearer service is "without notification", "with conditional notification" or "with systematic notification" as described in X.31 and Q.931.";;
REGISTERED AS {cAISDNAttribute 80};

9.81 Número de enlaces por canal D

numberOfDChannelLinks ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.NumberOfDChannelLinks;
MATCHES FOR EQUALITY;
BEHAVIOUR
numberOfDChannelLinksBhv BEHAVIOUR
DEFINED AS "This attribute indicates the max number of D-Channel links on the basic rate access. This includes signalling links and links used for other services (e.g. packets).";;
REGISTERED AS {cAISDNAttribute 81};

9.82 Clase de caudal por defecto saliente

outgoingDefaultThruputClass ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.ThruputClass;
MATCHES FOR EQUALITY;
BEHAVIOUR
outgoingDefaultThruputClassBhv BEHAVIOUR
DEFINED AS "The values of this attribute identify selections of the default throughput class for the outgoing direction on the B- or D-Channels.";;
REGISTERED AS {cAISDNAttribute 82};

9.83 Tamaño máximo de paquete saliente

outgoingMaxPacketSize ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.PacketSize;
MATCHES FOR EQUALITY;
BEHAVIOUR
outgoingMaxPacketSize Bhv BEHAVIOUR
DEFINED AS "The function of this attribute is to allow the subscriber to choose a maximum packet size (different than the default of 128 provided by the network) for the outcoming direction on the B- or D-Channels.

The enumerated choice value of this attribute is one of the following, representing the maximum allowable packet size for a logical channel which does not include Private Virtual Circuits (PVC).: 16, 32, 64, 128, 256, 512, 1024, 2048, or 4096 octets.";;
REGISTERED AS {cAISDNAttribute 83};

9.84 Tamaño de ventana saliente

outgoingWindowSize ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.WindowSize;
MATCHES FOR EQUALITY;
BEHAVIOUR
outgoingWindowSizeBhv BEHAVIOUR
DEFINED AS "This attribute specifies the packet window size for outgoing packet transmissions in LAPB. The value of this attribute allows for the subscription to non-standard default window sizes for the outgoing direction. The attribute value is an integer whose range of permissible values depends upon the value of the packetLevelSequence attribute. If modulo 8 sequencing is specified by the packetLevelSequence attribute, the permissible range is an integer between 1 and 7. If modulo 128 is specified by the packetLevelSequence attribute, the range of permissible values is 1 to 60 (61 to 127 is desirable)."";;
REGISTERED AS {cAISDNAttribute 84};

9.85 Cribado de número de parte llamante

screenCallingPartyNumber ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.Boolean;
MATCHES FOR EQUALITY;
BEHAVIOUR
screenCallingPartyNumberBhv BEHAVIOUR
DEFINED AS "This is a boolean attribute. When the value of this attribute is TRUE, the switch will screen calling party number information for validity when provided on a call by the user equipment. The attribute value FALSE is the default and will prohibit the switch from screening calling party numbers. If the attribute value is FALSE, then the Calling Party Number Default DN attribute is required. If the Calling Party Number Provision Necessary attribute value is TRUE, then this attribute must also be TRUE.";;
REGISTERED AS {cAISDNAttribute 85};

9.86 Número de directorio de manipulador de paquete de acceso semipermanente

semiPermAccessPacketHandlerDefaultDN ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.SemiPermAccessPacketHandlerDefaultDN;
MATCHES FOR EQUALITY;
BEHAVIOUR
semiPermAccessPacketHandlerDefaultDNBhv BEHAVIOUR
DEFINED AS " The values of this attribute value identifies the Directory Number assigned to each access channels to be used as the default DN if a DN is not included in the outgoing set-up message to a nailed-up B-channel.";;
REGISTERED AS {cAISDNAttribute 86};

9.87 Negociación de parámetros de señalización

signallingParameterNegotiation ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.Boolean;

MATCHES FOR EQUALITY;
BEHAVIOUR
signallingParameterNegotiationBhv BEHAVIOUR
DEFINED AS "This is a boolean attribute. The attribute value TRUE allows the use of signalling parameter negotiation, providing that the switch supports XID frames.";;
REGISTERED AS {cAISDNAttribute 87};

9.88 Id de configuración de terminal

terminalConfigurationId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.NameType;
MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;
BEHAVIOUR
terminalConfigurationIdBhv BEHAVIOUR
DEFINED AS "This is a naming attribute. If the string choice for the syntax is used, matching on the substrings is permitted. If the number choice for the syntax is used, then matching on ordering is permitted.";;
REGISTERED AS {cAISDNAttribute 88};

9.89 Puntero de configuración de terminal

terminalConfigurationPtr ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.ObjectInstance;
MATCHES FOR EQUALITY, SET-COMPARISON, SET-INTERSECTION;
BEHAVIOUR
terminalConfigurationPtrBhv BEHAVIOUR
DEFINED AS "This attribute is used as a pointer to an instance of the terminal Configuration managed object class.";;
REGISTERED AS {cAISDNAttribute 89};

9.90 Id de perfil de servicio de terminal

tspid ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.TSPID;
MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;
BEHAVIOUR
tspidBhv BEHAVIOUR
DEFINED AS "The value of this attribute is a numeric string of up to 18 numeric characters that identify the subscriber ISDN Basic Rate CPE profiles from a human user perspective. Prior to CPE initialization, a terminalServiceProfile (TSP) object instance is created including an assignment of a tspid attribute by the service provider's Service Order Process. Prior to using the terminal, a serviceProfileIdentifier (SPID) is entered by the subscriber at the CPE. The SPID, provided to the subscriber at Service Order time by the Administration, includes the TSPID as a component. The other componenet of the SPID is the terminalIdentifier (TID) that identifies at protocol layer 3 the particular CPE terminal being initialized.";;
REGISTERED AS {cAISDNAttribute 90};

9.91 Límite de terminal

terminalLimit ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNAttributeModule.TerminalLimit;
MATCHES FOR EQUALITY;
BEHAVIOUR
terminalLimitBhv BEHAVIOUR
DEFINED AS "This attribute is an integer in the range from 0 to 62 which identifies the maximum number of Basic Rate ISDN terminals that can share an instance of the TSP object class. A value of 0 stops service for the terminalServiceProfile.";;
REGISTERED AS {cAISDNAttribute 91};

9.92 Perfil de servicio de terminal

terminalServiceProfileId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
CAISDNModule.NameType;
MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;
BEHAVIOUR
terminalServiceProfileIdBhv BEHAVIOUR
DEFINED AS "This is a naming attribute. If the string choice for the syntax is used, matching on the substrings is permitted. If the number choice for the syntax is used, then matching on ordering is permitted.";;
REGISTERED AS {cAISDNAttribute 92};

10 Plantillas de parámetros

invalidReferenceError PARAMETER
CONTEXT SPECIFIC-ERROR;
WITH SYNTAX CAISDNModule.ObjectInstance;
BEHAVIOUR
invalidReferenceErrorBehaviour BEHAVIOUR
DEFINED AS "This error is sent to the Managing System when a CMIP request would cause an object to point to an object instance which is either non-existent, not of an appropriate type or not in an appropriate state. The invalid reference pointer value (an object instance name) of the request is returned to the managing system along with the error message.";;
REGISTERED AS {cAISDNParameter 1};

11 Vinculaciones de nombres

11.1 Puerto de acceso catalogado RDSI

cataloguedAccessPortISDN-managedElement NAME BINDING
SUBORDINATE OBJECT CLASS cataloguedAccessPortISDN AND SUBCLASSES;
NAMED BY
SUPERIOR OBJECT CLASS "CCITT Rec. M.3100":managedElement AND SUBCLASSES;
WITH ATTRIBUTE cataloguedAccessPortISDNId;
CREATE;
DELETE;
REGISTERED AS {cAISDNNameBinding 3};

11.2 Cribado de número llamante

callingNumberScreening-accessPortProfileISDN NAME BINDING
SUBORDINATE OBJECT CLASS callingNumberScreening AND SUBCLASSES;
NAMED BY
SUPERIOR OBJECT CLASS accessPortProfileISDN AND SUBCLASSES;
WITH ATTRIBUTE callingNumberScreeningId;
CREATE
WITH-AUTOMATIC-INSTANCE-NAMING,
WITH-REFERENCE-OBJECT;
DELETE
DELETES-CONTAINED-OBJECTS;
REGISTERED AS {cAISDNNameBinding 4};

11.3 Perfil de puerto de acceso catalogado a velocidad primaria RDSI

cataloguedAccessPortProfileISDN-managedElement NAME BINDING
SUBORDINATE OBJECT CLASS cataloguedAccessPortProfileISDN AND SUBCLASSES;
NAMED BY
SUPERIOR OBJECT CLASS "CCITT Rec. M.3100(1992)":managedElement AND SUBCLASSES;
WITH ATTRIBUTE cataloguedAccessPortProfileISDNId;
CREATE;
DELETE;
REGISTERED AS {cAISDNNameBinding 5};

11.4 LAPD de entidad de capa catalogado

```
cataloguedLayerEntityLAPD-managedElement                    NAME BINDING
        SUBORDINATE OBJECT CLASS cataloguedLayerEntityLAPD AND SUBCLASSES;
        NAMED BY
        SUPERIOR OBJECT CLASS "CCITT Rec. M.3100(1992)":managedElement AND SUBCLASSES;
        WITH ATTRIBUTE cataloguedLayerEntityLAPDId;
        CREATE;
        DELETE;
REGISTERED AS   {cAISDNNameBinding 6};
```

11.5 DSS 1 de entidad de capa catalogado

```
cataloguedLayerEntityDSS1-managedElement                    NAME BINDING
        SUBORDINATE OBJECT CLASS cataloguedLayerEntityDSS1 AND SUBCLASSES;
        NAMED BY
        SUPERIOR OBJECT CLASS "CCITT Rec. M.3100":managedElement AND SUBCLASSES;
        WITH ATTRIBUTE cataloguedLayerEntityDSS1Id;
        CREATE;
        DELETE;
REGISTERED AS   {cAISDNNameBinding 7};
```

11.6 Configuración de terminal

```
terminalConfiguration-managedElement                        NAME BINDING
        SUBORDINATE OBJECT CLASS terminalConfiguration AND SUBCLASSES;
        NAMED BY
        SUPERIOR OBJECT CLASS "CCITT Rec. M.3100(1992)":managedElement AND SUBCLASSES;
        WITH ATTRIBUTE terminalConfigurationId;
        CREATE;
        DELETE;
REGISTERED AS   {cAISDNNameBinding 11};
```

11.7 Perfil de servicio de terminal

```
terminalServiceProfile-managedElement                       NAME BINDING
        SUBORDINATE OBJECT CLASS terminalServiceProfile AND SUBCLASSES;
        NAMED BY
        SUPERIOR OBJECT CLASS "CCITT Rec. M.3100(1992)":managedElement AND SUBCLASSES;
        WITH ATTRIBUTE terminalServiceProfileId;
        CREATE;
        DELETE;
REGISTERED AS   {cAISDNNameBinding 12};
```

11.8 Identificación de usuario de red X.25

```
x25NetworkUserIdentification-accessPortProfileISDN          NAME BINDING
        SUBORDINATE OBJECT CLASS x25NetworkUserIdentification AND SUBCLASSES;
        NAMED BY
        SUPERIOR OBJECT CLASS accessPortProfileISDN AND SUBCLASSES;
        WITH ATTRIBUTE "ITU-T Rec. Q.824.0":optionalUserFacilitiesId;
        CREATE
            WITH-AUTOMATIC-INSTANCE-NAMING,
            WITH-REFERENCE-OBJECT;
        DELETE
            DELETES-CONTAINED-OBJECTS;
REGISTERED AS   {cAISDNNameBinding 13};
```

11.9 PLP X.25 de entidad de capa compartido

```
layerEntityX25PLPShared-managedElement   NAME BINDING
        SUBORDINATE OBJECT CLASS layerEntityX25PLPShared AND SUBCLASSES;
```

NAMED BY
SUPERIOR OBJECT CLASS managedElement AND SUBCLASSES;
WITH ATTRIBUTE layerEntityId;
CREATE;
DELETE;
REGISTERED AS {cACommonNameBinding 14};

12 Acciones de aprovisionamiento

12.1 Cambiar número de directorio

changeDirectoryNumber ACTION
BEHAVIOUR
changeDirectoryNumberBhv BEHAVIOUR
DEFINED AS "This action is used to change the Directory Number for a given customer service. The action request identifies the customer service with the old Directory Number Name. The request also indicates the new Directory Number Name to use and the intercept Treatment Termination to apply to the old Directory Number Name.

The action verifies that the old directoryNumberName is in service, and that the new Directory NumberName and interceptTreatment are valid. The new directoryNumberName is considered valid if it exists and does not have a relationship with a customerProfile or its subclasses (it is not in service). If not, the agent returns an invalid reference error.

The action sets the interceptTreatmentOrigin and interceptTreatmentTerm of the new Directory NumberName based on the values of those attributes of the old DirectoryNumberName and then sets the value of interceptTreatmentTerm of the old DirectoryNumberName to the value provided by the action request information.

Moreover, the relationship of the customerProfile or its subclasses associated with the old DirectoryNumberName is deleted and replaced by a relationship with the old DirectoryNumberName.";;
MODE CONFIRMED;
WITH INFORMATION SYNTAX
SpmAttributeModule.ChangeDirectoryNumberRequest;
REGISTERED AS {cAISDNAction 1};

12.2 Establecer acceso RDSI

establishISDNAccess ACTION
BEHAVIOUR
establishISDNAccessBhv BEHAVIOUR
DEFINED AS "The action first verifies that the access port trail termination point name identified in the service is valid. If it is not valid the agent returns an invalid reference error. The access port trail termination point name is considered valid if all of the following conditions are met:

- **an instance of accessPortTrailTerminationPoint exists for the name provided in the action;**
- **the accessPortTrailTerminationPoint can support ISDN services;**

Depending on the actual syntax selected, a different behaviour will apply for the remaining of the action execution:

- **if a servicePackage is provided, the service is instantiated based on the definition provided by a service package and the instantiateISDNAccesslServicePackageBehaviour applies;**
- **if a copyCommand is selected, the service is instantiated based on the definition provided by an already existing service and the copyISDNAccessCommandBehaviour applies;**

In all cases, if the action is successful, the reply will indicate so and will also contain the list of names of the object instances just created. Otherwise the action leaves the MIB unaffected (unchanged) and returns the specified error message .";,

copyISDNAccessCommandBehaviour BEHAVIOUR
DEFINED AS "The action verifies that the source Access Port Profile Name in the service is valid. If it is not valid the agent returns an invalid reference error. The existing Access Port Profile Name is considered valid if it exists and supports ISDN service.

The action creates a duplicate of the accessPortProfile subtree of the service identified by the existing Acces Port Profile Name.";,

instantiateISDNAccessServicePackageBhv BEHAVIOUR
DEFINED AS "The action determines the existence of the service package name provided in the action request parameters. If it does not exist, the agent returns an invalid reference error.

The action creates a duplicate of the accessPortProfile containment subtree of the service package for use by the new service.";;
MODE CONFIRMED;
WITH INFORMATION SYNTAX
CAISDNAttributeModule.EstablishISDNAccessRequest;
WITH REPLY SYNTAX CAISDNAttributeModule.CreatedInstancesName;
REGISTERED AS {cAISDNAction 2};

12.3 Suprimir acceso RDSI

RemoveISDNAccess ACTION
BEHAVIOUR
removeISDNAccessBhv BEHAVIOUR
DEFINED AS "This action removes an ISDN Access that is not associated with any CustomerProfile. In addition, all contained object classes, and all associated supplementary service object classes based on the Access Port Profile Name parameter in the action request.

The action verifies that the access port service profile name exists, and that there are no associated customer profiles. If not the agent returns an invalid reference error.

The name of all the deleted object instances is sent back as a reply to the managing system.";;
MODE CONFIRMED;
WITH INFORMATION SYNTAX
CAISDNAttributeModule.RemoveISDNAccessRequest;
WITH REPLY SYNTAX CAISDNAttributeModule.DeletedInstancesName;
REGISTERED AS {cAISDNAction 3};

12.4 Establecer servicio RDSI

establishISDNService ACTION
BEHAVIOUR
establishISDNServiceBhv BEHAVIOUR
DEFINED AS "The action first verifies that the directory number name(s) and termination point name identified in the service are valid. If either is not valid the agent returns an invalid reference error. The directory number name is considered valid if it exists and does not have a relationship with a customerProfile or its subclasses and its administrative state is unlocked. The termination point name is considered valid if all of the following conditions are met:

- **an instance of accessPortTrailTerminationPoint exists for the termination point name provided in the action;**
- **the accessPortTrailTerminationPoint can support ISDN services, either with or without a physical line card change.**

Depending on the actual syntax selected, a different behaviour will apply for the remaining of the action execution:

- **if a servicePackage is provided, the service is instantiated based on the definition provided by a service package and the instantiateServicePackageBehaviour applies;**
- **if a copyCommand is selected, the service is instantiated based on the definition provided by an already existing service and the copyCommandBehaviour applies.**

In all cases, if the action is successful, the reply will indicate so and will also contain the list of names of the object instances just created. Otherwise the action leaves the MIB unaffected (unchanged) and returns the specified error message.";,

copyISDNServiceCommandBehaviour BEHAVIOUR
DEFINED AS "The action verifies that the existing Customer Profile, Directory Number Name(s) and existing Termination Point Name identified in the service are valid. If any are not valid the agent returns an invalid reference error. The existing Directory Number Name(s) is considered valid if it exists and it is in service (has a relationship with the specified customerProfile and an accessPortProfile) on the specified existing Termination Point Name.

If the existing Termination Point Name is not provided, the existing Directory Number Name(s) must be in service on only one office equipment. Otherwise, the agent returns an invalid reference error with a NULL value for the Existing Service Office Equipment Number Name.

The action creates a duplicate of the customerProfile or its subclasses and accessPortProfile containment subtrees of the service identified by the existing Directory Number Name and existing Termination Point Name (if provided) for use by the new service, and create the following relationships:

- **directoryNumber - customerProfile or its subclasses**
- **customerProfile or its subclasses - accessPortProfile**
- **accessPortProfile - accessPortTrailTerminationPoint.**

If an accessPortProfile already exists in association with the accessPortProfileTrailTerminationPoint, then a new one does not need to be instantiated.";;

MODE CONFIRMED;
WITH INFORMATION SYNTAX
CAISDNAttributeModule.EstablishISDNServiceRequest;
WITH REPLY SYNTAX CAISDNAttributeModule.CreatedInstancesName;
REGISTERED AS {cAISDNAction 4};

12.5 Suprimir servicio RDSI

removeISDNService ACTION
BEHAVIOUR
removeISDNServiceBhv BEHAVIOUR
DEFINED AS "This action removes an ISDN Service based on the Directory Number Name and Bearer Service parameters in the action request. Removing an ISDN Service consists of removing the Bearer Service, all contained objects, and all associated supplementary service objects. If the last bearer service is removed, the Customer profile or its subclasses object that contained the removed bearer service is also removed.

The action verifies that the directory number name exists. If not the agent returns an invalid reference error.

The name of all the deleted object instances is sent back as a reply to the managing system.";
MODE CONFIRMED;
WITH INFORMATION SYNTAX
CAISDNAttributeModule.RemoveISDNServiceRequest;
WITH REPLY SYNTAX CAISDNAttributeModule.DeletedInstancesName;
REGISTERED AS {cAISDNAction 5};

12.6 Establecer terminal RDSI

establishISDNTerminal ACTION
BEHAVIOUR
establishISDNTerminalBhv BEHAVIOUR
DEFINED AS "The action first verifies that the TSPID and access port profile name identified in the service are valid. If either is not valid the agent returns an invalid reference error. TSPID is considered valid if it is not assigned in to any existing TSP object instance. The access port profile name is considered valid if all of the following conditions are met:
- **an instance of accessPortProfile exists for the name provided in the action;**
- **the accessPortProfile can support ISDN services.**

Depending on the actual syntax selected, a different behaviour will apply for the remaining of the action execution:
- **if a ""servicePackage"" is provided, the service is instantiated based on the definition provided by a service package and the instantiateISDNTerminalServicePackageBehaviour applies;**
- **if a ""copyCommand"" is selected, the service is instantiated based on the definition provided by an already existing service and the copyISDNTerminalCommandBehaviour applies.**

In all cases, if the action is successful, the reply will indicate so and will also contain the list of names of the object instances just created. Otherwise the action leaves the MIB unaffected (unchanged) and returns the specified error message .";,

copyISDNTerminalCommandBhv BEHAVIOUR
DEFINED AS "The action verifies that the source Terminal Service Profile Name in the service is valid. If it is not valid the agent returns an invalid reference error. The existing Terminal Service Profile Name is considered valid if it exists.

The action creates a duplicate of the terminalServiceProfile subtree of the service identified by the existing Terminal Service Profile Name.";,

instantiateISDNTerminalServicePackageBhv BEHAVIOUR
DEFINED AS "The action determines the existence of the service package and (optional) terminal configuration names provided in the action request parameters. If either does not exist, the agent returns an invalid reference error.

The action creates a duplicate of the terminalServiceProfile containment subtree of the service package for use by the new service.";;
MODE CONFIRMED;
WITH INFORMATION SYNTAX
CAISDNAttributeModule.EstablishISDNTerminalRequest;
WITH REPLY SYNTAX CAISDNAttributeModule.CreatedInstancesName;
REGISTERED AS {cAISDNAction 6};

12.7 Suprimir terminal RDSI

removeISDNTerminal ACTION
BEHAVIOUR
removeISDNTerminalBhv BEHAVIOUR
DEFINED AS "This action removes a Terminal Service Profile, all contained objects, and all associated supplementary service objects based on the Terminal Service Profile Name parameter in the action request.

The action verifies that the terminal service profile name exists. If not the agent returns an invalid reference error.

The name of all the deleted object instances is sent back as a reply to the managing system.";;
MODE CONFIRMED;
WITH INFORMATION SYNTAX
CAISDNAttributeModule.RemoveISDNTerminalRequest;
WITH REPLY SYNTAX CAISDNAttributeModule.DeletedInstancesName;
REGISTERED AS {cAISDNAction 7};

12.8 Consultar servicio

retrieveService ACTION
BEHAVIOUR
retrieveCustomerServiceBhv BEHAVIOUR
DEFINED AS "This action is used to retrieve a customer service identified by either the Directory Number Name or the Termination Point Name. When both are present, only the part of the service common to both will be retrieved.

If either the Directory Number Name or the Termination Point Name do not exist, no service exists and the agent returns an invalid reference error. If the Directory Number Name is not in service on the specified Termination Point Name then an invalid Reference error is returned to the managing system.

Otherwise, the action is successful and linked replies contain the objects in the customer service profile according to the following rules:

If the action request contains only the directory number name, then the object instances returned are all of the following:
- **the directoryNumber,**
- **the customerProfile or its subclasses related to the directoryNumber, and its contained object instances,**
- **all the accessPortProfiles related to the customerProfile or its subclasses, and their contained object instances,**
- **the terminationPoints related to all the accessPortProfiles.**

If the action request contains only the termination point name, then the object instances returned are all of the following:
- **the terminationPoint with the attribute officeEquipment equal to that of the action request parameter,**
- **the accessPortProfile related to the terminationPoint, and its contained object instances,**
- **all the customerProfile or its subclassess related to the accessPortProfile, and their contained object instances,**
- **the directoryNumbers related to all the customerProfile or its subclassess.**

If the action request contains both the directory number name and the termination point name, then the object instances returned are all of the following:

- **the directoryNumber,**
- **the customerProfile or its subclasses related to the directoryNumber, and its contained object instances,**
- **the terminationPoint with the attribute officeEquipment equal to that of the action request parameter,**
- **the accessPortProfile related to the terminationPoint, and its contained object instances.";;**

MODE CONFIRMED;
WITH INFORMATION SYNTAX
CAISDNModule. RetrieveCustomerServiceRequest;
WITH REPLY SYNTAX CAISDNModule. RetrieveCustomerServiceReply;
REGISTERED AS {cAISDNAction 8};

13 Definiciones de tipo

CAISDNModule {itu-t(0) recommendation(0) q(17) ca(824) dot(127) isdn(1) informationModel(0) asn1Modules(2) cAISDNModule(0)}

DEFINITIONS ::= BEGIN

-- *EXPORTS Everything;*

IMPORTS
InterceptTreatmentTerm,
NumberOfBChannels,
DirectoryNumber,
DirectoryNumberList
FROM CACommonModule {itu-t(0) recommendation(0) q(17) ca(824) dot(127) common(0) informationModel(0) asn1Modules(2) cACommonModule(0)}

UsageState,
OperationalState
FROM Attribute-ASN1Module {joint-iso-ccitt ms(9) smi(3) part2(2) asn1Module(2) 1}

k,
n1,
n2,
sequenceModulus,
t1Timer,
t2Timer,
t3Timer,
t4Timer
FROM DLM {joint-iso-ccitt network-layer(15) management(0) asn1Module(2) 0}

dBitModification,
defaultPacketSize,
defaultThroughputClass,
defaultWindowSize,
extendedPacketSequencing,
fastSelectAcceptance,
flowControlParameterNegotiation,
nonStandardDefaultPacketSizes,
nonStandardDefaultWindowSizes,
onlineFacilityRegistration,
packetRetransmission,
throughputClassNegotiation
FROM NLM {joint-iso-ccitt network-layer(13) management(0) nLM(2) asn1Module(2) 0}

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

AlarmStatus,
Boolean,
ChannelNumber,
NameType,
ObjectList,
Pointer,

```
PointerOrNull
FROM ASN1DefinedTypesModule {ccitt recommendation m(13) gnm(3100) informationModel(0) asn1Modules(2)
asn1DefinedTypesModule(0)};

q824-1InformationModel OBJECT IDENTIFIER ::= {itu-t(0) recommendation(0) q(17) ca(824) dot(127) isdn(1)
informationModel(0)}
cAISDNObjectClass OBJECT IDENTIFIER ::= {q824-1InformationModel managedObjectClass(3)}
cAISDNPackage OBJECT IDENTIFIER ::= {q824-1InformationModel package(4)}
cAISDNParameter OBJECT IDENTIFIER ::= {q824-1InformationModel parameter(5)}
cAISDNAttribute OBJECT IDENTIFIER ::= {q824-1InformationModel attribute(7)}
cAISDNNameBinding OBJECT IDENTIFIER ::= {q824-1InformationModel nameBinding(6)}
cAISDNAction OBJECT IDENTIFIER ::= {q824-1InformationModel action(9)}

-- default value definitions --
false Boolean ::= FALSE
true Boolean ::= TRUE
null NULL ::= NULL
minusOne INTEGER ::= –1
emptySet AccessChannelPtrList ::= { }
two INTEGER ::= 2
baud9600 ThruputClass ::= baud9600
size128 PacketSize ::= size128
dte84 DTECompatibility ::= dte84
linkOptionDefault LinkOption ::= dynamic :{callControlTEItotal 64
                                           callControlTEIsw    63
                                           packTEItotal        64
                                           packTEIsw           63}

-- supporting productions --

DTECompatibility ::= ENUMERATED {
        dte80       (0),
        dte84       (1),
        dte88       (2),
        dte93       (3)
        }
AccessChannelPtrList    ::= SET OF ObjectInstance
ActiveTerminalList ::= SET OF SEQUENCE {
        spid                        [0]     ServiceProfileIdentifier,
        tei                         [1]     TerminalEndPointIdentifier,
        usid                        [2]     UserServiceId }
AppearanceInfo ::= SEQUENCE {
        callAppearanceId        CallAppearanceIdentifier,
        defaultBearerService    BearerService}
AssignmentOfTimeslots   ::= ENUMERATED {
        fixed           (0)
        floating        (1),
        flexible        (2)}
BearerServiceList       ::= SET OF BearerService
BearerService ::=       ENUMERATED {
                                speech(0),
                                audio3D1(1),
                                audio7(2),
                                audioComb(3),
                                cmd56(4),
                                cmd64(5),
                                cmdComb(6)}
BitRateOfPrimaryRateInterface::= ENUMERATED}
                                                bitRate1544     (0)
                                                bitRate2048     (1)}
CallAppearanceIdentifier ::= INTEGER
CallingPartyDefaultDirectoryNumber ::= CHOICE {
            noDefault               NULL,
            directoryNumber         DirectoryNumber,            -- ALL Bearer Services
            perBearerService        SET OF SEQUENCE {
                directoryNumber             DirectoryNumber,
                bearerService               BearerService}}
```

```
CallingPartyValidDirectoryNumberList ::= SET OF DirectoryNumber
ChangeDirectoryNumberRequest ::= SEQUENCE {
        oldDirectoryNumberName          ObjectInstance,
        oldDirectoryNumberIntercept     InterceptTreatmentTerm,
        newDirectoryNumberName          ObjectInstance}
ChannelSelection ::= ENUMERATED {byNetwork (0), byUser (1)}
CopyISDNAccessCommandDescription ::= SEQUENCE {
        sourceAPPName                   ObjectInstance,
        tpNameList                      SET OF ObjectInstance}
CopyISDNServiceCommandDescription ::= SEQUENCE {
        sourceCustomerProfileName       ObjectInstance,
        accessPortName                          ObjectInstance,
        resourceDescription             SET OF SEQUENCE {
                                        sourceDirectoryNumber  ObjectInstance,
                                        newDirectoryNumber  ObjectInstance}}
CopyISDNTerminalCommandDescription ::= SEQUENCE {
        sourceTerminalName              ObjectInstance,
        aPPName                         bjectInstance,
        sPId                            A5String (SIZE(1..18))}
CreatedInstancesName ::= SET OF ObjectInstance
DChannelT3xx ::= INTEGER -- number of seconds
DeletedInstancesName ::= SET OF ObjectInstance
DirectoryNumberAppearanceIdentifierList ::= SEQUENCE {
        directoryNumber                 DirectoryNumber,
        COMPONENTS OF AppearanceInfo}
DirectoryNumberReference ::= SEQUENCE {dnr INTEGER (1..128),
                                                        dn DirectoryNumber,
                                                        bs BearerService}
Dynamic ::= SEQUENCE {
callControlTEItotal     INTEGER,  --  total number of TEIs that can be assigned to signalling
callControlTEIsw        FlexType,
packTEItotal        INTEGER,  --  total number of TEIs that can be assigned to the packet.
packTEIsw           FlexType}
EstablishISDNAccessRequest ::= CHOICE {
        servicePackageISDNAccess                [0] ServicePackageISDNAccessDescription,
        copyISDNAccessCommand                           [1] CopyISDNAccessCommandDescription }
EstablishISDNServiceRequest ::= CHOICE {
        servicePackageISDN                      [0] ServicePackageISDNDescription,
        copyISDNServiceCommand                  [1] CopyISDNServiceCommandDescription }
EstablishISDNTerminalRequest ::= CHOICE {
        servicePackageISDNTerminal              [0] ServicePackageISDNTerminalDescription,
        copyISDNTerminalCommand                 [1] CopyISDNTerminalCommandDescription }
FlexType ::= CHOICE {
                switchAssigned      INTEGER,
                uncontrolled                NULL }
MasterFeatureList ::= GraphicString(SIZE(1 .. 7))
FeatureActivatorValue ::= INTEGER(0..16383)
FeatureActivatorsAllDirectoryNumber ::= SET OF SEQUENCE {
        featureActivatorValue           FeatureActivatorValue,
        masterFeatureList                       MasterFeatureList}
FeatureActivatorsPerDirectoryNumber ::= SET OF SEQUENCE {
        featureActivatorValue           FeatureActivatorValue,
        directoryNumberReference        INTEGER(1..128),
        masterFeatureList                       MasterFeatureList}
FeatureIndicatorsAllDirectoryNumber ::= SET OF SEQUENCE {
        featureActivatorValue           FeatureActivatorValue,
        masterFeatureList                       MasterFeatureList}
FeatureIndicatorsPerDirectoryNumber ::= SET OF SEQUENCE {
        featureActivatorValue           FeatureActivatorValue,
        directoryNumberReference        INTEGER(1..128),
        masterFeatureList                       MasterFeatureList}
InterfaceType ::= ENUMERATED {
        basic           (0),
        primary         (1)
        }
```

```
LinkOption      ::= CHOICE {fixed NULL, dynamic Dynamic}
MaxBitsPerInformationFrame          ::= INTEGER
MaxCombinedThruputClass             ::= CHOICE {
maxCombinedThruput    MaxCombinedThruput,
        null                        NULL}
MaxCombinedThruput ::= ENUMERATED {
baud16000                           (0),
baud18000                           (1),
baud20000                           (2),
baud22000                           (3),
baud24000                           (4),
baud26000                           (5),
baud28000                           (6),
baud30000                           (7),
baud32000                           (8),
baud64000                           (9),
baud72000                           (10),
baud80000                           (11),
baud88000                           (12),
baud96000                           (13),
baud104000                          (14),
baud112000                          (15),
baud120000                          (16),
baud128000                          (17)
}
MaxNumberOfCallReference ::= INTEGER
MaxTransmissionAttempts  ::= INTEGER
NotificationClass ::= ENUMERATED {
                    noNotificationClass(1),             -- without notification
                    conditionalNotificationClass(2),    -- with conditional notification
                    unconditionalNotificationClass(3) }
NumberOfDChannelLinks ::= INTEGER (1..256)
PacketSize ::= ENUMERATED {
size16                              (0),
size32                              (1),
size64                              (2),
size128                             (3),
size256                             (4),
size512                             (5),
size1024                            (6),
size2048                            (7),
size4096                            (8)}
PossibleServicePackages             SERVICE-PACKAGE-SPECIFIC-DATA ::= {...}
PrimaryIC       ::= IA5String
RemoveISDNAccessRequest ::= ObjectInstance
RemoveISDNServiceRequest ::= SEQUENCE {
        directoryNumberName     ObjectInstance,
        bearerServiceName       ObjectInstance}
RemoveISDNTerminalRequest ::= ObjectInstance
RetrieveCustomerServiceRequest ::= SEQUENCE {
        tpName                  [0] ObjectInstance OPTIONAL,
        directoryNumber         [1] ObjectInstance OPTIONAL,
        partyLineIdentifier     [2] PartyLineIdentifier OPTIONAL
--      PartyLineIdentifier is a parameter required to identify a particular customer when muliple customers are
--      provided service on a single analog line.
        }
RetrieveCustomerServiceReply ::= SET OF ObjectInstance
SemiPermAccessPacketHandlerDefaultDirectoryNumber ::= SET OF
                SEQUENCE { defaultDirectoryNumber  DirectoryNumber,
                        bChannel            ChannelNumber}
ServiceProfileIdentifier ::= CHOICE {
        null                    NULL,
        spid                    IA5String(SIZE(3 .. 20))}
ServicePackageISDNAccessDescription ::= SEQUENCE {
        servicePackageName      ObjectInstance,
        accessPortName          ObjectInstance}
ServicePackageISDNDescription ::= SEQUENCE {
        servicePackageName
```

```
        SERVICE-PACKAGE-SPECIFIC-DATA. & servicePackageName ({PossibleServicePackages}),
        accessPortName          ObjectInstance,
        serviceDescription      SET OF SEQUENCE {
            templateDirectoryNumberName ObjectInstance,
            directoryNumberName         ObjectInstance,
            serviceRequestInfo
        SERVICE-PACKAGE-SPECIFIC-DATA. & ServiceRequestInfo ({PossibleServicePackages}
{@service PackageName})   OPTIONAL}}
ServicePackageISDNTerminalDescription ::= SEQUENCE {
        servicePackageName          ObjectInstance,
        aPPName                     ObjectInstance,
        sPId                        IA5String (SIZE(1..18)),
        terminalConfigurationName   ObjectInstance   OPTIONAL}
TerminalEndPointIdentifier      ::= CHOICE { auto       NULL,
                                             non-Auto   INTEGER(0...126)}
TerminalLimit ::= INTEGER(0..62)
TerminalServiceProfilePtrList   ::= SET OF ObjectInstance
ThruputClass ::= ENUMERATED {
baud75                          (0),
baud150                         (1),
baud300                         (2),
baud600                         (3),
baud1200                        (4),
baud2400                        (5),
baud4800                        (6),
baud9600                        (7),
baud19200                       (8),
baud48000                       (9),
baud56000                       (10),
baud64000                       (11)}
TSPID ::= IA5String (SIZE(1..18))
UserServiceId ::= CHOICE {
        null            NULL,
        uid             INTEGER(0 .. 126)}
WindowSize  ::= CHOICE      {lowRange     [0] INTEGER(1..7),
                             highRange    [1] INTEGER(61..167)}
```

END -- *Type definitions* --

14 Acciones

Esta cláusula contiene las plantillas de parámetros para los servicios definidos en las secciones anteriores.

14.1 Convenios

La definición de cada servicio en esta Recomendación incluye un cuadro que enumera los parámetros de sus primitivas. Para una primitiva dada, la presencia de cada parámetro es descrita por uno de los valores siguientes:

- M El parámetro es obligatorio (*mandatory*).
- (=) El valor del parámetro es igual al cuerpo del parámetro en la columna de la izquierda.
- U La utilización del parámetro es una opción del usuario del servicio – El parámetro no está presente en la interacción.
- C El parámetro está presente condicionalmente – Las condiciones se definen en el texto que describe el parámetro.

14.2 Cambiar número de directorio

El servicio cambiar número de directorio se utiliza para que un sistema de gestión (OS) pueda solicitar un cambio del número de directorio para un servicio de cliente determinado por el agente. Esta acción utiliza el servicio CMIS M-ACCIÓN. En el Cuadro 1 se indican los parámetros para esta acción.

CUADRO 1/Q.824.1

Parámetros de cambio de número de directorio

Nombre del parámetro	Pet./Ind.	Resp./Conf.
Identificador de invocación	M	M=
Identificador enlazado	–	C
Modo	M	–
Clase de objeto de base	M	–
Caso de objeto de base	M	–
Alcance	U	–
Filtro	U	–
Clase de objeto gestionado	–	C
Caso de objeto gestionado	–	C
Control de acceso	U	–
Sincronización	U	–
Tipo de acción	M	C(=)
Información de acción	M	–
Petición cambiar número de directorio	M	–
Nombre de número de directorio antiguo	M	
Intercepción de DN antiguo	M	
Nombre de número de directorio nuevo	M	
Tiempo actual	–	U
Errores	–	C

14.3 Establecer acceso RDSI

El servicio establecer acceso RDSI se utiliza para que un sistema de gestión (OS) pueda solicitar que un servicio de acceso RDSI sea creado por el agente. Esta acción utiliza el servicio CMIS M-ACCIÓN. El Cuadro 2 indica los parámetros para esta acción.

CUADRO 2/Q.824.1

Parámetros de establecimiento de acceso RDSI

Nombre del parámetro	Pet./Ind.	Resp./Conf.
Identificador de invocación	M	M=
Identificador enlazado	–	C
Modo	M	–
Clase de objeto de base	M	–
Caso de objeto de base	M	–
Alcance	U	–
Filtro	U	–
Clase de objeto gestionado	–	C
Caso de objeto gestionado	–	C
Control de acceso	U	–
Sincronización	U	–
Tipo de acción	M	C(=)
Información de acción	M	–
Loto de servicio acceso RDSI	C1	–
Nombre de lote de servicio	M	–
Nombre TP	M	–
Instrucción de acceso RDSI copiar	C1	–
Nombre de APP de origen	M	–
Lista de nombres de tp	M	–
Tiempo actual	–	U
Resultado de acción	–	M
Nombre de casos creados	–	M
Errores	–	C
C1 Debe estar presente el lote de servicio acceso RDSI o la instrucción de acceso RDSI copiar.		

14.4 Establecer servicio RDSI

El servicio establecer servicio RDSI se utiliza para que un sistema de gestión (OS) pueda solicitar que un servicio RDSI sea creado por el agente. Esta acción utiliza el servicio CMIS M-ACCIÓN. En el Cuadro 3 se indican los parámetros para esta acción.

CUADRO 3/Q.824.1

Parámetros de establecimiento de servicio RDSI

Nombre del parámetro	Pet./Ind.	Resp./Conf.
Identificador de invocación	M	M=
Identificador enlazado	–	C
Modo	M	–
Clase de objeto de base	M	–
Caso de objeto de base	M	–
Alcance	U	–
Filtro	U	–
Clase de objeto gestionado	–	C
Caso de objeto gestionado	–	C
Control de acceso	U	–
Sincronización	U	–
Tipo de acción	M	C(=)
Información de acción	M	–
RDSI lote de servicio	C1	–
Nombre de lote de servicio	M	–
Nombre tp	M	–
Descripción de servicio	M	–
Instrucción de servicio RDSI copiar	C1	–
Nombre del perfil de cliente de origen	M	–
Nombre tp	M	–
Descripción de recurso	M	–
Tiempo actual	–	U
Resultado de acción	–	M
Nombre de casos creados	–	M
Errores	–	C
C1 Debe estar presente el lote de servicio RDSI o la instrucción de servicio copiar.		

14.5 Establecer terminal RDSI

El servicio establecer terminal RDSI se utiliza para que un sistema de gestión (OS) pueda solicitar que un servicio terminal RDSI sea creado por el agente. Esta acción utiliza el servicio CMIS M-ACCIÓN. En el Cuadro 4 se indican los parámetros para esta acción.

CUADRO 4/Q.824.1

Parámetros de establecimiento de terminal RDSI

Nombre del parámetro	Pet./Ind.	Resp./Conf.
Identificador de invocación	M	M=
Identificador enlazado	–	C
Modo	M	–
Clase de objeto de base	M	–
Caso de objeto de base	M	–
Alcance	U	–
Filtro	U	–
Clase de objeto gestionado	–	C
Caso de objeto gestionado	–	C
Control de acceso	U	–
Sincronización	U	–
Tipo de acción	M	C(=)
Información de acción	M	–
Lote de servicio terminal RDSI	C1	–
Nombre de lote de servicio	M	–
Nombre de APP	M	–
TSPID	M	–
Nombre de configuración de terminación	U	–
Instrucción de terminal RDSI copiar	C1	–
Nombre de lote de servicio	M	
Nombre de APP	M	–
TSPID	M	–
Tiempo actual	–	U
Resultado de acción	–	M
Nombre de casos creados	–	M
Errores	–	C
C1 Debe estar presente el lote de servicio terminal RDSI o la instrucción de terminal RDSI copiar.		

14.6 Suprimir acceso RDSI

El servicio suprimir acceso RDSI se utiliza para que un sistema de gestión (OS) pueda solicitar que el agente suprima un servicio de acceso RDSI. Esta acción utiliza el servicio CMIS M-ACCIÓN. En el Cuadro 5 se indican los parámetros para esta acción.

CUADRO 5/Q.824.1

Parámetros de supresión de acceso RDSI

Nombre del parámetro	Pet./Ind.	Resp./Conf.
Identificador de invocación	M	M=
Identificador enlazado	–	C
Modo	M	–
Clase de objeto de base	M	–
Caso de objeto de base	M	–
Alcance	U	–
Filtro	U	–
Clase de objeto gestionado	–	C
Caso de objeto gestionado	–	C
Control de acceso	U	–
Sincronización	U	–
Tipo de acción	M	C(=)
Información de acción	M	–
Petición suprimir acceso RDSI	M	–
Tiempo actual	–	U
Resultado de acción	–	M
Nombre de casos anulados	–	M
Errores	–	C

14.7 Suprimir servicio RDSI

El servicio suprimir servicio RDSI se utiliza para que un sistema de gestión (OS) pueda solicitar que el agente suprima un servicio RDSI. Esta acción utiliza el servicio CMIS M-ACCIÓN. En el Cuadro 6 se indican los parámetros para esta acción.

CUADRO 6/Q.824.1

Parámetros de supresión de servicio RDSI

Nombre del parámetro	Pet./Ind.	Resp./Conf.
Identificador de invocación	M	M=
Identificador enlazado	–	C
Modo	M	–
Clase de objeto de base	M	–
Caso de objeto de base	M	–
Alcance	U	–
Filtro	U	–
Clase de objeto gestionado	–	C
Caso de objeto gestionado	–	C
Control de acceso	U	–
Sincronización	U	–
Tipo de acción	M	C(=)
Información de acción	M	–
Nombre de número de directorio	M	–
Servicio portador	M	–
Tiempo actual	–	U
Resultado de acción	–	M
Nombre de casos suprimidos	–	M
Errores	–	C

14.8 Suprimir terminal RDSI

El servicio suprimir terminal RDSI se utiliza para que un sistema de gestión (OS) pueda solicitar que un agente suprima un servicio terminal RDSI. Esta acción utiliza el servicio CMIS M-ACCIÓN. En el Cuadro 7 se indican los parámetros para esta acción.

CUADRO 7/Q.824.1

Parámetros de supresión de terminal RDSI

Nombre del parámetro	Pet./Ind.	Resp./Conf.
Identificador de invocación	M	M=
Identificador enlazado	–	C
Modo	M	–
Clase de objeto de base	M	–
Caso de objeto de base	M	–
Alcance	U	–
Filtro	U	–
Clase de objeto gestionado	–	C
Caso de objeto gestionado	–	C
Control de acceso	U	–
Sincronización	U	–
Tipo de acción	M	C(=)
Información de acción	M	–
Suprimir terminal RDSI	M	–
Tiempo actual	–	U
Resultado de acción	–	M
Nombre de casos anulados	–	M
Errores	–	C

14.9 Consultar servicio de cliente

El servicio consultar servicio de cliente se utiliza para que un sistema de gestión (OS) pueda solicitar consultar un servicio de cliente identificado por el nombre de número de directorio o por el nombre de punto de terminación. Cuando ambos estén presentes, sólo se consultará la parte del servicio que ambos tengan en común. Este servicio M-ACCIÓN no modifica los objetos ni los atributos. En el Cuadro 8 se indican los parámetros para esta acción.

CUADRO 8/Q.824.1

Parámetros de consulta de servicio de cliente

Nombre del parámetro	Pet./Ind.	Resp./Conf.
Identificador de invocación	M	M=
Identificador enlazado	–	M
Modo	M	–
Clase de objeto de base	M	–
Caso de objeto de base	M	–
Alcance	U	–
Filtro	U	–
Clase de objeto gestionado	–	C
Caso de objeto gestionado	–	C
Control de acceso	U	–
Sincronización	U	–
Tipo de acción	M	C(=)
Información de acción	M	–
Nombre de punto de terminación	U	–
Nombre de número de directorio	U	–
Identificador de línea de parte	U	–
Hora actual	–	U
Resultado de acción	–	M
Respuesta a consulta de servicio de cliente	–	M
Errores	–	C