



UNIÓN INTERNACIONAL DE TELECOMUNICACIONES

UIT-T

SECTOR DE NORMALIZACIÓN
DE LAS TELECOMUNICACIONES
DE LA UIT

G.774

Corrigendum 1

(11/96)

SERIE G: SISTEMAS Y MEDIOS DE TRANSMISIÓN,
SISTEMAS Y REDES DIGITALES

Sistemas de transmisión digital – Equipos terminales –
Características de operación, administración y
mantenimiento de los equipos de transmisión

Modelo de información de gestión de la jerarquía
digital síncrona desde el punto de vista de los
elementos de red

Corrigendum 1

Recomendación UIT-T G.774 – Corrigendum 1

(Anteriormente Recomendación del CCITT)

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Para más información, véase la Lista de Recomendaciones del UIT-T.

RECOMENDACIÓN UIT-T G.774

MODELO DE INFORMACIÓN DE GESTIÓN DE LA JERARQUÍA DIGITAL SÍNCRONA DESDE EL PUNTO DE VISTA DE LOS ELEMENTOS DE RED

CORRIGENDUM 1

Orígenes

El corrigendum 1 a la Recomendación UIT-T G.774 ha sido preparado por la Comisión de Estudio 15 (1993-1996) del UIT-T y fue aprobado por el procedimiento de la Resolución N.º 1 de la CMNT el 8 de noviembre de 1996.

PREFACIO

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

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

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

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

NOTA

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

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Recomendación G.774

MODELO DE INFORMACIÓN DE GESTIÓN DE LA JERARQUÍA DIGITAL SÍNCRONA DESDE EL PUNTO DE VISTA DE LOS ELEMENTOS DE RED

CORRIGENDUM 1

(Ginebra, 1996)

1 Introducción

1.1 Alcance

Modificaciones que no requieren nuevo registro

El siguiente texto sustituye todo el texto de 1.1/G.774 (1992). Para mayor claridad, todas las adiciones se indican en **negritas**.

En esta Recomendación se proporciona un modelo de información para la jerarquía digital síncrona (SDH, *synchronous digital hierarchy*) [1], [2] y [3]. Se identifican las clases de objetos de la red de gestión de telecomunicaciones (RGT) requeridos para la gestión de elementos de red SDH. Estos objetos son pertinentes para la información intercambiada por interfaces normalizadas definidas en la arquitectura de la RGT de la Recomendación M.3010 [4]. Las clases de objeto gestionado de esta Recomendación son clases especializadas de las clases genéricas de objeto gestionado definidas en la Recomendación M.3100, Modelo genérico de información de red [5].

Esta Recomendación se aplica a los elementos de red SDH y a los sistemas de la RGT que gestionan elementos de red SDH. Las capacidades funcionales de los equipos multiplex SDH se indican en la Recomendación G.783 [6], y los aspectos de la gestión de los equipos SDH en la Recomendación G.784 [7]. En esta Recomendación se facilita la información de gestión necesaria para los protocolos especificados en la Recomendación G.784.

Los nuevos objetos definidos en la presente Recomendación sustituyen a los definidos en la Recomendación G.774 (1992). Para cada clase de objeto, atributo, acción, notificación y parámetro definidos en la presente Recomendación, se indican las repercusiones en la actual Recomendación G.774 (1992).

1.2 Estructura de la presente Recomendación

No se requieren modificaciones.

2 Modelo de información SDH

2.1 Generalidades

Modificaciones que no requieren nuevo registro

El siguiente texto sustituye todo el texto de 2.1/G.774 (1992). Para mayor claridad, todas las adiciones se indican en **negritas**.

El modelo de información SDH se basa en el modelo genérico de información de red de la Recomendación M.3100. El modelo genérico de información de red comprende un fragmento de punto de terminación que sirve de estructura para especializar las clases de objetos específicas de la red SDH. Son esas clases de objeto específicas de la SDH, junto con las clases de objeto genéricas de

otros fragmentos del modelo genérico de información de red (por ejemplo, el fragmento de conexión cruzada y el fragmento de equipo), las que se utilizan para gestionar los elementos de red SDH. Los servicios utilizados para gestionar los recursos SDH representados por estas clases de objetos se indican en la Recomendación M.3100 y en otras Recomendaciones.

La información intercambiada en una interfaz de gestión se modela utilizando principios de diseño indicados en la Recomendación X.720, Modelo de información de gestión [10]. Los recursos se modelan como objetos, y la visión de gestión de un recurso es un objeto gestionado. Los objetos con atributos similares pueden agruparse en clases de objeto. Un objeto se caracteriza por su clase de objeto e instancia de objeto, y puede poseer múltiples tipos de atributos y valores asociados. Las expresiones "clase de objeto gestionado" e "instancia de objeto gestionado" se aplican específicamente a objetos que están siendo gestionados. En esta Recomendación se especifican las propiedades del recurso visible para la gestión.

Una clase de objeto puede ser una subclase de otra clase. Una subclase hereda tipos de atributos, paquetes y comportamientos de superclase, además de poseer sus propios atributos y propiedades específicos. Las clases de objeto específicas de la SDH se derivan todas de las superclases del modelo de información de red genérico de la Recomendación M.3100.

El formulario MOCS para las definiciones de objetos indicadas en la presente Recomendación se debe elaborar utilizando las directrices y el formato que figuran en la Recomendación X.724.

Las clases de objeto y los tipos de atributo se definen solamente para la comunicación de mensajes de gestión de red entre sistemas, y no tienen necesidad de estar relacionados con la estructura de los datos dentro de esos sistemas. Las clases de objetos definidas en esta versión de modelo de información SDH pueden aplicarse a numerosas partes funcionales de gestión (por ejemplo, gestión de fallos y gestión de configuración).

Para la gestión pueden definirse varios puntos de vista diferentes de la información de gestión. El punto de vista del elemento de red está relacionado con la información necesaria para gestionar un elemento de red. Se refiere a la información necesaria para gestionar la función de elemento de red y los aspectos físicos del elemento de red. En esta Recomendación sólo se trata el punto de vista del elemento de red de gestión SDH.

2.2 Requisitos

Modificaciones que no requieren nuevo registro

El siguiente texto sustituye todo el texto de 2.2/G.774 (1992). Para mayor claridad, todas las adiciones se indican en **negritas**.

Para que los equipos SDH puedan representarse de manera coherente en la interfaz, algunos de los paquetes condicionales de la Recomendación M.3100 son obligatorios en esta Recomendación, y los paquetes condicionales siguientes, heredados de dicha Recomendación no se utilizarán cuando sean instanciadas las clases de objetos SDH definidas en la misma: ttpInstancePackage, ctpInstancePackage, networkLevelPackage, characteristicInformationPackage, channelNumberPackage.

Las subclases SDH especificadas en esta Recomendación se utilizarán para gestionar los recursos de transporte específicos de los elementos de red SDH. Las implementaciones se atenderán a la información de gestión definida en las cláusulas 3 a 7 y a los requisitos determinados en 2.2 y en la cláusula 8.

En el contexto de la presente Recomendación, los diversos objetos definidos a continuación se denominarán utilizando la denominación distinguida local.

3 Clases de objeto

Modificaciones que no requieren nuevo registro

El siguiente texto sustituye el texto de la cláusula 3/G.774 (1992) asociado con los siguientes subtítulos. Para mayor claridad, todas las adiciones se indican en **negritas**.

Clases de punto de terminación de camino de SPI eléctrico.

Clases de punto de terminación de camino de SPI óptico.

Todas las clases de objeto definidas en la Recomendación G.774 (1992) que no se mencionan aquí se mantienen sin modificación.

Clases de objeto de punto de terminación de camino de SPI eléctrico

electricalSPITTPBidirectional MANAGED OBJECT CLASS

DERIVED FROM

"Recommendation M.3100":trailTerminationPointBidirectional,
electricalSPITTPSink,
electricalSPITTPSource;

REGISTERED AS { g774ObjectClass 10 };

electricalSPITTPSink MANAGED OBJECT CLASS

DERIVED FROM "Recommendation M.3100":trailTerminationPointSink;

CHARACTERIZED BY

"Recommendation X.721":administrativeStatePackage,
"Recommendation M.3100":createDeleteNotificationsPackage,
"Recommendation M.3100":stateChangeNotificationPackage,
"Recommendation M.3100":tmnCommunicationsAlarmInformationPackage,
electricalSPIPackage,

electricalSPITTPSinkPkg PACKAGE

BEHAVIOUR

electricalSPITTPSinkBehaviourPkg BEHAVIOUR

DEFINED AS

*This object class represents the point where the incoming electrical interface signal is converted into an internal logic level and the timing is recovered from the line signal.

A communicationsAlarm notification shall be issued if a loss of signal is detected. The probableCause parameter of the notification shall indicate LOS (Loss Of signal).

The upstream connectivity pointer is NULL for an instance of this class when the upstream termination point is not contained within the same network element.

*

;;;

REGISTERED AS { g774ObjectClass 11 };

electricalSPITTPSource MANAGED OBJECT CLASS

DERIVED FROM

"Recommendation M.3100":trailTerminationPointSource;

CHARACTERIZED BY

"Recommendation X.721":administrativeStatePackage,
"Recommendation M.3100":createDeleteNotificationsPackage,
"Recommendation M.3100":stateChangeNotificationPackage,
electricalSPIPackage,

electricalSPITTPSourcePkg PACKAGE

BEHAVIOUR

electricalSPITTPSourceBehaviourPkg BEHAVIOUR

DEFINED AS

*This object class represents the point at which an outgoing internal logic level STM-N signal is converted into a STM-N in station electrical interface signal.

The downstream connectivity pointer is NULL for an instance of this class when the downstream termination point is not contained within the same network element.

*

;;;

REGISTERED AS { g774ObjectClass 12 };

Clases de objeto de punto de terminación de camino de interfaz física SDH óptica

opticalSPITTPBidirectional MANAGED OBJECT CLASS

DERIVED FROM

"Recommendation M.3100":trailTerminationPointBidirectional,
opticalSPITTPSink,
opticalSPITTPSource;

REGISTERED AS { g774ObjectClass 28 };

opticalSPITTPSink MANAGED OBJECT CLASS

DERIVED FROM

"Recommendation M.3100":trailTerminationPointSink;
CHARACTERIZED BY
"Recommendation X.721":administrativeStatePackage,
"Recommendation M.3100":createDeleteNotificationsPackage,
"Recommendation M.3100":stateChangeNotificationPackage,
"Recommendation M.3100":tmnCommunicationsAlarmInformationPackage,
opticalSPIPackage,
opticalSPITTPSinkPkg PACKAGE

BEHAVIOUR

opticalSPITTPSinkBehaviourPkg BEHAVIOUR

DEFINED AS

*This object class represents the point where the incoming optical interface signal is converted into an internal logic level and the timing is recovered from the line signal.
A communicationsAlarm notification shall be issued if a loss of signal is detected. The probableCause parameter of the notification shall indicate LOS (Loss Of signal).

The upstream connectivity pointer is NULL for an instance of this class when the upstream termination point is not contained within the same network element.*

;;;

REGISTERED AS { g774ObjectClass 29 };

opticalSPITTPSource MANAGED OBJECT CLASS

DERIVED FROM

"Recommendation M.3100":trailTerminationPointSource;
CHARACTERIZED BY
"Recommendation X.721":administrativeStatePackage,
"Recommendation M.3100":createDeleteNotificationsPackage,
"Recommendation M.3100":stateChangeNotificationPackage,
"Recommendation M.3100":tmnCommunicationsAlarmInformationPackage,
opticalSPIPackage,

opticalSPITTPSourcePkg PACKAGE

BEHAVIOUR

opticalSPITTPSourceBehaviourPkg BEHAVIOUR

DEFINED AS

*This object class represents the point at which an outgoing internal logic level STM-N signal is converted into a STM-N in station or inter-station optical interface signal.

A communicationsAlarm notification shall be issued if the transmit laser fails. The probableCause parameter of the notification shall indicate TransmitFail.

The downstream connectivity pointer is NULL for an instance of this class when the downstream termination point is not contained within the same network element.*

....

REGISTERED AS { g774ObjectClass 30 };

Modificaciones que requieren nuevo registro

Esta cláusula proporciona definiciones de clases de objeto gestionados sustitutivas para la actual Recomendación G.774 (1992). Toda clase de objeto gestionado sustituida en esta cláusula se considera desaprobadada. Los motivos para la sustitución de una clase de objeto gestionado son los siguientes:

- 1) La clase de objeto gestionado sustituida está defectuosa y se debe corregir.
- 2) La clase de objeto gestionado sustituida incluye un atributo, lote, notificación o acción que se ha registrado de nuevo en la presente Recomendación.
- 3) La clase de objeto gestionado sustituida hereda de una clase de objeto gestionado que ha sido registrada de nuevo en la presente Recomendación.

En cada caso en que una clase es sustituida, la nueva clase se registrará en la presente Recomendación. La etiqueta textual para la clase se modificará para incluir el texto "R1". Por ejemplo, en la modificación de la clase de objeto gestionado G.774 (1992) "au4CTPSink", la etiqueta modificada será "au4CTPSinkR1".

A continuación figura una tabla de clases desaprobadas de la Recomendación G.774 (1992) y las nuevas clases G.774 que las sustituyen:

Clases G.774 (1992) desaprobadas

Clases G.774 sustitutivas

au3CTPSink	au3CTPSinkR1
au3CTPBidirectional	au3CTPBidirectionalR1
au4CTPSink	au4CTPSinkR1
au4CTPBidirectional	au4CTPBidirectionalR1
tu11CTPSink	tu11CTPSinkR1
tu11CTPBidirectional	tu11CTPBidirectionalR1
tu12CTPSink	tu12CTPSinkR1
tu12CTPBidirectional	tu12CTPBidirectionalR1
tu2CTPSink	tu2CTPSinkR1
tu2CTPBidirectional	tu2CTPBidirectionalR1
tu3CTPSink	tu3CTPSinkR1
tu3CTPBidirectional	tu3CTPBidirectionalR1
vc11TTPBidirectional	vc11TTPBidirectionalR1
vc11TTPSink	vc11TTPSinkR1
vc12TTPBidirectional	vc12TTPBidirectionalR1
vc12TTPSink	vc12TTPSinkR1
vc2TTPBidirectional	vc2TTPBidirectionalR1
vc2TTPSink	vc2TTPSinkR1
vc3TTPBidirectional	vc3TTPBidirectionalR1
vc3TTPSink	vc3TTPSinkR1
vc3TTPSource	vc3TTPSourceR1
vc4TTPBidirectional	vc4TTPBidirectionalR1
vc4TTPSink	vc4TTPSinkR1
vc4TTPSource	vc4TTPSourceR1

Clases de objeto de unidad administrativa 3

```
au3CTPBidirectionalR1 MANAGED OBJECT CLASS
  DERIVED FROM
    "Recommendation M.3100:1992":connectionTerminationPointBidirectional,
    au3CTPSinkR1,
    "Recommendation G.774:1992":au3CTPSource;
REGISTERED AS { g774ObjectClass 83 }

au3CTPSinkR1 MANAGED OBJECT CLASS
  DERIVED FROM
    "Recommendation M.3100:1992":connectionTerminationPointSink;
  CHARACTERIZED BY
    "Recommendation M.3100:1992":createDeleteNotificationsPackage,
    "Recommendation M.3100:1992":operationalStatePackage,
    "Recommendation M.3100:1992":stateChangeNotificationPackage,
    "Recommendation M.3100:1992":tmnCommunicationsAlarmInformationPackage,
  au3CTPSinkR1Pkg PACKAGE
  BEHAVIOUR
    au3CTPSinkR1PkgBehaviour BEHAVIOUR
      DEFINED AS
        *This object class represents a termination point where an AU-3
        Connection is terminated.
        The AU-3 consists of a VC-3 plus an AU pointer which indicates
        the phase alignment of the VC-3 with respect to the STM-N
        frame.
        A communicationsAlarm notification shall be issued if a loss of
        AU pointer is detected. The probableCause parameter of the
        notification shall indicate LOP (Loss Of Pointer).
        A communicationsAlarm notification shall be issued if an AU
        path alarm indication signal is detected. The probableCause
        parameter of the notification shall indicate AIS (Alarm
        Indication Signal).
        A change in the operational state shall cause a state change
        notification *
      ;;
    ATTRIBUTES
      "Recommendation G.774:1992":au3CTPId          GET,
      "Recommendation G.774:1992":pointerSinkType  GET;
    ;;
REGISTERED AS { g774ObjectClass 84 };
```

Clases de objeto de unidad administrativa 4

```
au4CTPBidirectionalR1 MANAGED OBJECT CLASS
  DERIVED FROM
    "Recommendation M.3100:1992":connectionTerminationPointBidirectional,
    au4CTPSinkR1,
    "Recommendation G.774:1992":au4CTPSource;
REGISTERED AS { g774ObjectClass 85 };

au4CTPSinkR1 MANAGED OBJECT CLASS
  DERIVED FROM
    "Recommendation M.3100:1992":connectionTerminationPointSink;
  CHARACTERIZED BY
    "Recommendation M.3100:1992":createDeleteNotificationsPackage,
    "Recommendation M.3100:1992":operationalStatePackage,
    "Recommendation M.3100:1992":stateChangeNotificationPackage,
    "Recommendation M.3100:1992":tmnCommunicationsAlarmInformationPackage,
  au4CTPSinkR1Pkg PACKAGE
```

```

BEHAVIOUR
au4CTPSinkR1PkgBehaviour BEHAVIOUR
    DEFINED AS
        *This object class represents a termination point where an AU-4
        Connection is terminated.
        The AU-4 consists of a VC-4 plus an AU pointer which indicates
        the phase alignment of the VC-4 with respect to the STM-N
        frame.
        A communicationsAlarm notification shall be issued if a loss of
        AU pointer is detected. The probableCause parameter of the
        notification shall indicate LOP (Loss Of Pointer).
        A communicationsAlarm notification shall be issued if an AU
        path alarm indication signal is detected. The probableCause
        parameter of the notification shall indicate AIS (Alarm
        Indication Signal).
        A change in the operational state shall cause a state change
        notification *
    ;;
ATTRIBUTES
"Recommendation G.774:1992": au4CTPId          GET,
"Recommendation G.774:1992": pointerSinkType    GET;
;;
REGISTERED AS { g774ObjectClass 86 };

```

Clases de objeto de unidad afluente 11

```

tu11CTPBidirectionalR1 MANAGED OBJECT CLASS
    DERIVED FROM
        "Recommendation M.3100:1992":connectionTerminationPointBidirectional,
        tu11CTPSinkR1,
        "Recommendation G.774:1992":tu11CTPSource;
REGISTERED AS { g774ObjectClass 87 };

tu11CTPSinkR1 MANAGED OBJECT CLASS
    DERIVED FROM
        "Recommendation M.3100:1992":connectionTerminationPointSink;
    CHARACTERIZED BY
        "Recommendation M.3100:1992":createDeleteNotificationsPackage,
        "Recommendation M.3100:1992":operationalStatePackage,
        "Recommendation M.3100:1992":stateChangeNotificationPackage,
        "Recommendation M.3100:1992":tmnCommunicationsAlarmInformationPackage,
        "Recommendation G.774:1992":tu-nSinkPackage,
    tu11CTPSinkR1Pkg PACKAGE
        BEHAVIOUR
            tu11CTPSinkR1BehaviourPkg BEHAVIOUR
                DEFINED AS
                    *This object class terminates a tu-11 connection.
                    A change in the operational state shall cause a state change
                    notification *
                ;;
            ATTRIBUTES
                "Recommendation G.774:1992": tu11CTPId      GET;
            ;;
REGISTERED AS { g774ObjectClass 88 };

```

Clases de objeto de unidad afluente 12

```

tu12CTPBidirectionalR1 MANAGED OBJECT CLASS
    DERIVED FROM
        "Recommendation M.3100:1992":connectionTerminationPointBidirectional,
        tu12CTPSinkR1,

```

"Recommendation G.774:1992":tu12CTPSource;
REGISTERED AS { g774ObjectClass 89 };

tu12CTPSinkR1 MANAGED OBJECT CLASS

DERIVED FROM

"Recommendation M.3100:1992":connectionTerminationPointSink;

CHARACTERIZED BY

"Recommendation M.3100:1992":createDeleteNotificationsPackage,

"Recommendation M.3100:1992":operationalStatePackage,

"Recommendation M.3100:1992":stateChangeNotificationPackage,

"Recommendation M.3100:1992":tmnCommunicationsAlarmInformationPackage,

"Recommendation G.774:1992":tu-nSinkPackage,

tu12CTPSinkR1Pkg PACKAGE

BEHAVIOUR

tu12CTPSinkR1BehaviourPkg BEHAVIOUR

DEFINED AS

*This object class terminates a tu-12 connection.

A change in the operational state shall cause a state change

notification *

::

ATTRIBUTES

"Recommendation G.774:1992": tu12CTPId GET;

::

REGISTERED AS { g774ObjectClass 90 };

Clases de objeto de unidad afluente 2

tu2CTPBidirectionalR1 MANAGED OBJECT CLASS

DERIVED FROM

"Recommendation M.3100:1992":connectionTerminationPointBidirectional,

tu2CTPSinkR1,

"Recommendation G.774:1992":tu2CTPSource;

REGISTERED AS { g774ObjectClass 91 };

tu2CTPSinkR1 MANAGED OBJECT CLASS

DERIVED FROM

"Recommendation M.3100:1992":connectionTerminationPointSink;

CHARACTERIZED BY

"Recommendation M.3100:1992":createDeleteNotificationsPackage,

"Recommendation M.3100:1992":operationalStatePackage,

"Recommendation M.3100:1992":stateChangeNotificationPackage,

"Recommendation M.3100:1992":tmnCommunicationsAlarmInformationPackage,

"Recommendation G.744:1992":tu-nSinkPackage,

tu2CTPSinkR1Pkg PACKAGE

BEHAVIOUR

tu2CTPSinkR1BehaviourPkg BEHAVIOUR

DEFINED AS

*This object class terminates a tu-2 connection.

A change in the operational state shall cause a state

change notification *

::

ATTRIBUTES

"Recommendation G.774:1992": tu2CTPId GET;

::

REGISTERED AS { g774ObjectClass 92 };

Clases de objeto de unidad afluente 3

tu3CTPBidirectionalR1 MANAGED OBJECT CLASS

DERIVED FROM

"Recommendation M.3100:1992":connectionTerminationPointBidirectional,

```
tu3CTPSinkR1,  
"Recommendation G.744:1992":tu3CTPSource;  
REGISTERED AS { g774ObjectClass 93 };
```

```
tu3CTPSinkR1 MANAGED OBJECT CLASS
```

```
DERIVED FROM
```

```
"Recommendation M.3100:1992":connectionTerminationPointSink;
```

```
CHARACTERIZED BY
```

```
"Recommendation M.3100:1992":createDeleteNotificationsPackage,
```

```
"Recommendation M.3100:1992":operationalStatePackage,
```

```
"Recommendation M.3100:1992":stateChangeNotificationPackage,
```

```
"Recommendation M.3100:1992":tmnCommunicationsAlarmInformationPackage,
```

```
"Recommendation G.774:1992":tu-nSinkPackage,
```

```
tu3CTPSinkR1Pkg PACKAGE
```

```
BEHAVIOUR
```

```
tu3CTPSinkR1BehaviourPkg BEHAVIOUR
```

```
DEFINED AS
```

```
*This object class terminates a tu-3 connection.
```

```
A change in the operational state shall cause a state change  
notification *
```

```
::
```

```
ATTRIBUTES
```

```
"Recommendation G.774:1992":tu3CTPId GET;
```

```
::
```

```
REGISTERED AS { g774ObjectClass 94 };
```

Clases de objeto de contenedor virtual 11

```
vc11TTPBidirectionalR1 MANAGED OBJECT CLASS
```

```
DERIVED FROM
```

```
"Recommendation M.3100:1992":trailTerminationPointBidirectional,
```

```
vc11TTPSinkR1,
```

```
"Recommendation G.774:1992":vc11TTPSource;
```

```
CHARACTERIZED BY
```

```
vc11-2BidirectionalPackageR1;
```

```
REGISTERED AS { g774ObjectClass 95 };
```

```
vc11TTPSinkR1 MANAGED OBJECT CLASS
```

```
DERIVED FROM
```

```
"Recommendation M.3100:1992":trailTerminationPointSink;
```

```
CHARACTERIZED BY
```

```
"Recommendation X.721:1992":administrativeStatePackage,
```

```
"Recommendation M.3100:1992":createDeleteNotificationsPackage,
```

```
"Recommendation M.3100:1992":stateChangeNotificationPackage,
```

```
"Recommendation M.3100:1992":tmnCommunicationsAlarmInformationPackage,
```

```
vc11-2SinkPackageR1,
```

```
vc11TTPSinkPkgR1 PACKAGE
```

```
BEHAVIOUR
```

```
vc11TTPSinkPkgR1Behaviour BEHAVIOUR
```

```
DEFINED AS
```

```
*This object class terminates a vc11 trail, i.e. the point at which  
the VC11-POH is extracted from the STM-N frame.*
```

```
::
```

```
ATTRIBUTES
```

```
"Recommendation G.774:1992":vc11TTPId GET;
```

```
::
```

```
REGISTERED AS { g774ObjectClass 96 };
```

Clases de objeto de contenedor virtual 12

```
vc12TTPBidirectionalR1 MANAGED OBJECT CLASS
  DERIVED FROM
    "Recommendation M.3100:1992":trailTerminationPointBidirectional,
    vc12TTPSinkR1,
    "Recommendation G.774:1992":vc12TTPSource;
  CHARACTERIZED BY
    vc11-2BidirectionalPackageR1;
REGISTERED AS { g774ObjectClass 97 };

vc12TTPSinkR1 MANAGED OBJECT CLASS
  DERIVED FROM
    "Recommendation M.3100:1992":trailTerminationPointSink;
  CHARACTERIZED BY
    "Recommendation X.721:1992":administrativeStatePackage,
    "Recommendation M.3100:1992":createDeleteNotificationsPackage,
    "Recommendation M.3100:1992":stateChangeNotificationPackage,
    "Recommendation M.3100:1992":tmnCommunicationsAlarmInformationPackage,
    vc11-2SinkPackageR1,
    vc12TTPSinkPkgR1 PACKAGE
      BEHAVIOUR
        vc12TTPSinkPkgR1Behaviour BEHAVIOUR
          DEFINED AS
            *This object class terminates a vc12 trail, i.e. the point at which
            the VC12-POH is extracted from the STM-N frame.*
          ;;
      ATTRIBUTES
        "Recommendation G.774:1992": vc12TTPId          GET;
      ;;
REGISTERED AS { g774ObjectClass 98 };
```

Clases de objeto de contenedor virtual 2

```
vc2TTPBidirectionalR1 MANAGED OBJECT CLASS
  DERIVED FROM
    "Recommendation M.3100:1992":trailTerminationPointBidirectional,
    vc2TTPSinkR1,
    "Recommendation G.774:1992":vc2TTPSource;
  CHARACTERIZED BY
    vc11-2BidirectionalPackageR1;
REGISTERED AS { g774ObjectClass 99 };

vc2TTPSinkR1 MANAGED OBJECT CLASS
  DERIVED FROM "Recommendation M.3100:1992":trailTerminationPointSink;
  CHARACTERIZED BY
    "Recommendation X.721:1992":administrativeStatePackage,
    "Recommendation M.3100:1992":createDeleteNotificationsPackage,
    "Recommendation M.3100:1992":stateChangeNotificationPackage,
    "Recommendation M.3100:1992":tmnCommunicationsAlarmInformationPackage,
    vc11-2SinkPackageR1,
    vc2TTPSinkPkgR1 PACKAGE
      BEHAVIOUR
        vc2TTPSinkPkgR1Behaviour BEHAVIOUR
          DEFINED AS
            *This object class terminates a vc2 trail, i.e. the point at which
            the VC2-POH is extracted from the STM-N frame.*
          ;;
      ;;
```

ATTRIBUTES

"Recommendation G.774:1992": vc2TTPId GET;

::

REGISTERED AS { g774ObjectClass 100 };

Clases de objeto de contenedor virtual 3

vc3TTPBidirectionalR1 MANAGED OBJECT CLASS

DERIVED FROM

"Recommendation M.3100:1992":trailTerminationPointBidirectional,

vc3TTPSinkR1,

vc3TTPSourceR1;

CHARACTERIZED BY

vc3-4BidirectionalPackageR1;

REGISTERED AS { g774ObjectClass 101 };

vc3TTPSinkR1 MANAGED OBJECT CLASS

DERIVED FROM "Recommendation M.3100:1992":trailTerminationPointSink;

CHARACTERIZED BY

"Recommendation X.721:1992":administrativeStatePackage,

"Recommendation M.3100:1992":createDeleteNotificationsPackage,

"Recommendation M.3100:1992":stateChangeNotificationPackage,

"Recommendation M.3100:1992":tmnCommunicationsAlarmInformationPackage,

vc3-4SinkPackageR1,

vc3TTPSinkPkgR1 PACKAGE

BEHAVIOUR

vc3TTPSinkPkgR1Behaviour BEHAVIOUR

DEFINED AS

This object class terminates a vc3 trail, i.e. the point at which the SDH VC-3 is terminated.

::

ATTRIBUTES

"Recommendation G.774:1992": vc3TTPId GET;

::

REGISTERED AS { g774ObjectClass 102 };

vc3TTPSourceR1 MANAGED OBJECT CLASS

DERIVED FROM "Recommendation M.3100":trailTerminationPointSource;

CHARACTERIZED BY

"Recommendation X.721:1992":administrativeStatePackage,

"Recommendation M.3100:1992":createDeleteNotificationsPackage,

"Recommendation M.3100:1992":stateChangeNotificationPackage,

vc3-4SourcePackageR1,

vc3TTPSourcePkgR1 PACKAGE

BEHAVIOUR

vc3TTPSourcePkgR1Behaviour BEHAVIOUR

DEFINED AS

This object class originates a vc3 trail, i.e. the point at which the SDH VC-3 is originated.

::

ATTRIBUTES

"Recommendation G.774:1992": vc3TTPId GET;

::

REGISTERED AS { g774ObjectClass 103 };

Clases de objeto de contenedor virtual 4

vc4TTPBidirectionalR1 MANAGED OBJECT CLASS

DERIVED FROM

"Recommendation M.3100:1992":trailTerminationPointBidirectional,

vc4TTPSinkR1,

```
vc4TTPSourceR1;  
CHARACTERIZED BY  
vc3-4BidirectionalPackageR1;  
REGISTERED AS { g774ObjectClass 104 };
```

```
vc4TTPSinkR1 MANAGED OBJECT CLASS  
DERIVED FROM "Recommendation M.3100:1992":trailTerminationPointSink;  
CHARACTERIZED BY  
"Recommendation X.721:1992":administrativeStatePackage,  
"Recommendation M.3100:1992":createDeleteNotificationsPackage,  
"Recommendation M.3100:1992":stateChangeNotificationPackage,  
"Recommendation M.3100:1992":tmnCommunicationsAlarmInformationPackage,  
vc3-4SinkPackageR1,  
vc4TTPSinkPkgR1 PACKAGE  
BEHAVIOUR  
vc4TTPSinkPkgR1Behaviour BEHAVIOUR  
DEFINED AS  
*This object class terminates a vc4 trail, i.e. the point at which  
the SDH VC-4 is terminated.*  
;;  
ATTRIBUTES  
"Recommendation G.774:1992": vc4TTPId GET;  
;;  
REGISTERED AS { g774ObjectClass 105 };
```

```
vc4TTPSourceR1 MANAGED OBJECT CLASS  
DERIVED FROM "Recommendation M.3100:1992":trailTerminationPointSource;  
CHARACTERIZED BY  
"Recommendation X.721:1992":administrativeStatePackage,  
"Recommendation M.3100:1992":createDeleteNotificationsPackage,  
"Recommendation M.3100:1992":stateChangeNotificationPackage,  
vc3-4SourcePackageR1,  
vc4TTPSourcePkgR1 PACKAGE  
BEHAVIOUR  
vc3-4TTPSourcePkgR1Behaviour BEHAVIOUR  
DEFINED AS  
*This object class originates a vc4 trail, i.e. the point at which  
the SDH VC-4 is originated.*  
;;  
ATTRIBUTES  
"Recommendation G.774:1992": vc4TTPId GET;  
;;  
REGISTERED AS { g774ObjectClass 106 };
```

4 Lotes

Modificaciones que requieren nuevo registro

Esta cláusula proporciona definiciones de lotes sustitutivos para la actual Recomendación G.774 (1992). Todo lote sustituido en esta cláusula se considera desaprobado. Los motivos para la sustitución de un lote son los siguientes:

- 1) El lote sustituido está defectuoso y se debe corregir.
- 2) El lote sustituido incluye un atributo, lote, notificación o acción que se ha registrado de nuevo en la presente Recomendación.

En cada caso en que un lote es sustituido, el nuevo lote se registrará en la presente Recomendación. La etiqueta textual para el lote se modificará para incluir el texto "R1". Por ejemplo, en la

modificación del lote G.774 (1992) "vc3-4SourcePackage", la etiqueta modificada será "vc3-4SourcePackageR1".

A continuación figura una tabla de lotes desaprobadados de la Recomendación G.774 (1992) y los lotes G.774 que los sustituyen:

Lotes G.774 (1992) desaprobadados

vc11-2BidirectionalPackage
vc11-2SinkPackage
vc3-4BidirectionalPackage
vc3-4SinkPackage
vc3-4SourcePackage

Lotes G.774 sustitutivos

vc11-2BidirectionalPackageR1
vc11-2SinkPackageR1
vc3-4BidirectionalPackageR1
vc3-4SinkPackageR1
vc3-4SourcePackageR1

Lotes de contenedor virtual 11-2

vc11-2BidirectionalPackageR1 PACKAGE
BEHAVIOUR

vc11-2BidirectionalPackageR1Behaviour BEHAVIOUR
DEFINED AS

A communicationsAlarm notification shall be issued if a far end receive failure (V5 byte) is detected. The probableCause parameter of the notification shall indicate FERF (Far End Receive Failure).

;;;

vc11-2SinkPackageR1 PACKAGE
BEHAVIOUR

vc11-2SinkPackageR1Behaviour BEHAVIOUR
DEFINED AS

A communicationsAlarm notification shall be issued if the signal label received (V5 Byte) does not match the signal label expected. The probableCause parameter of the notification shall indicate signal label mismatch.

;;

ATTRIBUTES

"Recommendation G.774:1992": v5SignalLabelExpected GET,
"Recommendation G.774:1992": v5SignalLabelReceive GET;

;

Lotes de contenedor virtual 3-4

vc3-4BidirectionalPackageR1 PACKAGE
BEHAVIOUR

vc3-4BidirectionalPackageR1Behaviour BEHAVIOUR
DEFINED AS

A communicationsAlarm notification shall be issued if a far end receive failure (G1 byte) is detected. The probableCause parameter of the notification shall indicate FERF (Far End Receive Failure).

;;;

vc3-4SinkPackageR1 PACKAGE
BEHAVIOUR

vc3-4SinkPackageR1Behaviour BEHAVIOUR
DEFINED AS

*A communicationsAlarm notification shall be issued if the signal label received (C2 Byte) does not match the signal label expected. The probableCause parameter of the notification shall indicate signal label mismatch.

A communicationsAlarm notification shall be issued if the path trace received (J1 Byte) does not match the path trace expected. The

probableCause parameter of the notification shall indicate path trace mismatch.

A communicationsAlarm notification shall be issued if a loss of TU multiframe indicator (H4 Byte) is detected. The probableCause parameter of the notification shall indicate loss of TU multiframe. This communicationsAlarm notification is only required for high order paths with payloads that require use of the multiframe indicator.

When 16 bytes are supported, the 16 bytes of the path trace shall be conveyed at the management interface in both ways. This is a local issue whether the NE recompute the CRC-7 under a replace operation.*

::

ATTRIBUTES

"Recommendation G.774:1992": j1PathTraceExpected

DEFAULT VALUE SDH.Null

GET-REPLACE REPLACE-WITH-DEFAULT,

"Recommendation G.774.5:1994": j1PathTraceReceive GET,

"Recommendation G.774:1992c2SignalLabelExpected GET,

"Recommendation G.774:1992": c2SignalLabelReceive GET;

;

vc3-4SourcePackageR1 PACKAGE

BEHAVIOUR

vc3-4SourcePackageR1Behaviour BEHAVIOUR

DEFINED AS

When 16 bytes are supported, the 16 bytes of the path trace shall be conveyed at the management interface.

::

ATTRIBUTES

"Recommendation G.774.5:1994": j1PathTraceSend GET-REPLACE,

"Recommendation G.774:1992": c2SignalLabelSend GET;

;

5 Atributos

Modificaciones que no requieren nuevo registro

El siguiente texto sustituye el texto de la cláusula 5/G.774 (1992) asociado con los siguientes subtítulos solamente. Para mayor claridad, todas las adiciones se indican en **negritas**:

Identificación de AU-3

Identificación de AU-4

Identificación de AUG

Etiqueta de señal C2 esperada

Etiqueta de señal C2 en recepción

Etiqueta de señal C2 en emisión

Identificación de punto de terminación de camino de interfaz física SDH eléctrica

Rastreo de trayecto J1 esperado

Rastreo de trayecto J1 en recepción

Rastreo de trayecto J1 en emisión

Identificación de punto de terminación de camino de sección múltiplex

Identificación de punto de terminación de camino de interfaz física SDH óptica

Identificación de punto de terminación de camino de sección de regeneración

Identificación de punto de terminación de conexión de unidad afluente 12

Identificación de punto de terminación de conexión de unidad afluente 2

Identificación de punto de terminación de conexión de unidad afluente 3

Identificación de TUG-2

Identificación de TUG-3

Etiqueta de señal V5 esperada

Etiqueta de señal V5 en recepción

Etiqueta de señal V5 en emisión
Identificación de punto de terminación de camino de contenedor virtual 11
Identificación de punto de terminación de camino de contenedor virtual 12
Identificación de punto de terminación de camino de contenedor virtual 2
Identificación de punto de terminación de camino de contenedor virtual 3
Identificación de punto de terminación de camino de contenedor virtual 4

Todos los atributos definidos en la Recomendación G.774 (1992) que no se mencionan aquí se mantienen sin modificación.

Identificación de AU-3

au3CTPId ATTRIBUTE

WITH ATTRIBUTE SYNTAX SDH.NameType;
MATCHES FOR EQUALITY, **ORDERING**;
BEHAVIOUR

au3CTPIdBehaviour BEHAVIOUR

DEFINED AS

The au3CTPId attribute is an attribute type whose distinguished value can be used as an RDN when naming an instance of the AU3CTPBidirectional, AU3CTPSink, and AU3CTPSource managed object classes. This attribute specifies the timeslot of the au3CTP within its server TTP or IA. The value shall be the integer which represents the position of the timeslot in temporal order. The first timeslot shall be numbered one.

::

REGISTERED AS { g774Attribute 1 };

Identificación de AU-4

au4CTPId ATTRIBUTE

WITH ATTRIBUTE SYNTAX SDH.NameType;
MATCHES FOR EQUALITY, **ORDERING**;
BEHAVIOUR

au4CTPIdBehaviour BEHAVIOUR

DEFINED AS

The au4CTPId attribute is an attribute type whose distinguished value can be used as an RDN when naming an instance of the AU4CTPBidirectional, AU4CTPSink, and AU4CTPSource managed object classes. This attribute specifies the timeslot of the au4CTP within its server TTP or IA. The value shall be the integer which represents the position of the timeslot in temporal order. The first timeslot shall be numbered one.

::

REGISTERED AS { g774Attribute 2 };

Identificación de AUG

augId ATTRIBUTE

WITH ATTRIBUTE SYNTAX SDH.NameType;
MATCHES FOR EQUALITY, **ORDERING**;
BEHAVIOUR

augIdBehaviour BEHAVIOUR

DEFINED AS

The augId attribute is an attribute type whose distinguished value can be used as an RDN when naming an instance of the AUG managed object class. This attribute specifies the timeslot of the aug within its server TTP or IA. The value shall be the integer which represents the position of the timeslot in temporal order. The first timeslot shall be numbered one.

::

REGISTERED AS { g774Attribute 3 };

Etiqueta de señal C2 esperada

c2SignalLabelExpected ATTRIBUTE
WITH ATTRIBUTE SYNTAX SDH.C2SignalLabel;
MATCHES FOR EQUALITY;
BEHAVIOUR
c2SignalLabelExpectedBehaviour BEHAVIOUR
DEFINED AS
This attribute specifies the expected C2 VC Signal Label for an incoming VC-n. See Recommendation G.707 for a list of valid values.
;;
REGISTERED AS { g774Attribute 4 };

Etiqueta de señal C2 en recepción

c2SignalLabelReceive ATTRIBUTE
WITH ATTRIBUTE SYNTAX SDH.C2SignalLabel;
MATCHES FOR EQUALITY;
BEHAVIOUR
c2SignalLabelReceiveBehaviour BEHAVIOUR
DEFINED AS
This attribute specifies the C2 VC Signal Label for an incoming VC-n. See Recommendation G.707 for a list of valid values.
;;
REGISTERED AS { g774Attribute 5 };

Etiqueta de señal C2 en emisión

c2SignalLabelSend ATTRIBUTE
WITH ATTRIBUTE SYNTAX SDH.C2SignalLabel;
MATCHES FOR EQUALITY;
BEHAVIOUR
c2SignalLabelSendBehaviour BEHAVIOUR
DEFINED AS
This attribute specifies the C2 VC Signal Label for an outgoing VC-n. See Recommendation G.707 for a list of valid values.
;;
REGISTERED AS { g774Attribute 6 };

Identificación de punto de terminación de camino de interfaz física SDH eléctrica

electricalSPITTPId ATTRIBUTE
WITH ATTRIBUTE SYNTAX SDH.NameType;
MATCHES FOR EQUALITY, **ORDERING, SUBSTRINGS**;
BEHAVIOUR
electricalSPITTPIdBehaviour BEHAVIOUR
DEFINED AS
This attribute is used as an RDN for naming instances of the electricalSPITTP object classes. If the string choice of the syntax is used then matching on substrings is permitted. If the number choice for the syntax is used then matching on ordering is permitted.
;;
REGISTERED AS { g774Attribute 7 };

Rastreo de trayecto J1 esperado

j1PathTraceExpected ATTRIBUTE
WITH ATTRIBUTE SYNTAX SDH.PathTrace;
MATCHES FOR EQUALITY;
BEHAVIOUR
j1PathTraceExpectedBehaviour BEHAVIOUR

DEFINED AS

This attribute is used to specify the value of the expected J1 Byte VC Path Trace byte message for instances of the VC-n. If the value of this attribute is set to NULL then any Received Path Trace shall be considered to match.

::

REGISTERED AS { g774Attribute 10 };

Rastreo de trayecto J1 en recepción

j1PathTraceReceive ATTRIBUTE

WITH ATTRIBUTE SYNTAX SDH.PathTrace;

MATCHES FOR EQUALITY;

BEHAVIOUR

j1PathTraceReceiveBehaviour BEHAVIOUR

DEFINED AS

This attribute is used to indicate the value of the incoming J1 Byte VC Path Trace byte message for instances of the VC-n.

::

REGISTERED AS { g774Attribute 11 };

Rastreo de trayecto J1 en emisión

j1PathTraceSend ATTRIBUTE

WITH ATTRIBUTE SYNTAX SDH.PathTrace;

MATCHES FOR EQUALITY;

BEHAVIOUR

j1PathTraceSendBehaviour BEHAVIOUR

DEFINED AS

This attribute is used to indicate the value of the outgoing J1 VC Path Trace byte message for instances of the VC-n. The NULL choice is not supported.

::

REGISTERED AS { g774Attribute 12 };

Identificación de punto de terminación de camino de sección múltiplex

msTTPId ATTRIBUTE

WITH ATTRIBUTE SYNTAX SDH.NameType;

MATCHES FOR EQUALITY, **ORDERING, SUBSTRINGS;**

BEHAVIOUR

msTTPIdBehaviour BEHAVIOUR

DEFINED AS

This attribute is used as an RDN for naming instances of the msTTP object class. If the string choice of the syntax is used then matching on substrings is permitted. If the number choice for the syntax is used then matching on ordering is permitted.

::

REGISTERED AS { g774Attribute 16 };

Identificación de punto de terminación de camino de interfaz física SDH óptica

opticalSPITTPId ATTRIBUTE

WITH ATTRIBUTE SYNTAX SDH.NameType;

MATCHES FOR EQUALITY, **ORDERING, SUBSTRINGS;**

BEHAVIOUR

opticalSPITTPIdBehaviour BEHAVIOUR

DEFINED AS

This attribute is used as an RDN for naming instances of the opticalSPITTP object class. If the string choice of the syntax is used then matching on substrings is permitted. If the number choice for the syntax is used then matching on ordering is permitted.

::
REGISTERED AS { g774Attribute 18 };

Identificación de punto de terminación de camino de sección de regeneración

rsTTPId ATTRIBUTE
WITH ATTRIBUTE SYNTAX SDH.NameType;
MATCHES FOR EQUALITY, **ORDERING, SUBSTRINGS**;
BEHAVIOUR
rsTTPIdBehaviour BEHAVIOUR
DEFINED AS
*This attribute is used as an RDN for naming instances of the rsTTP object classes. **If the string choice of the syntax is used then matching on substrings is permitted. If the number choice for the syntax is used then matching on ordering is permitted.***
::
REGISTERED AS { g774Attribute 25 };

Identificación de punto de terminación de conexión de unidad afluente 11

tu11CTPId ATTRIBUTE
WITH ATTRIBUTE SYNTAX SDH.NameType;
MATCHES FOR EQUALITY, **ORDERING**;
BEHAVIOUR
tu11CTPIdBehaviour BEHAVIOUR
DEFINED AS
This attribute is used as an RDN for naming instances of the tu11CTP object classes. This attribute specifies the time slot of the TU-11 CTP within its server TTP or IA. The value shall be the integer which represents the position of the time slot in temporal order. The first time slot shall be numbered one.
::
REGISTERED AS { g774Attribute 29 };

Identificación de punto de terminación de conexión de unidad afluente 12

tu12CTPId ATTRIBUTE
WITH ATTRIBUTE SYNTAX SDH.NameType;
MATCHES FOR EQUALITY, **ORDERING**;
BEHAVIOUR
tu12CTPIdBehaviour BEHAVIOUR
DEFINED AS
This attribute is used as an RDN for naming instances of the tu12CTP object classes. This attribute specifies the time slot of the TU-12 CTP within its server TTP or IA. The value shall be the integer which represents the position of the time slot in temporal order. The first time slot shall be numbered one.
::
REGISTERED AS { g774Attribute 30 };

Identificación de punto de terminación de conexión de unidad afluente 2

tu2CTPId ATTRIBUTE
WITH ATTRIBUTE SYNTAX SDH.NameType;
MATCHES FOR EQUALITY, **ORDERING**;
BEHAVIOUR
tu2CTPIdBehaviour BEHAVIOUR
DEFINED AS
*This attribute is used as an RDN for naming instances of the tu2CTP object classes. This attribute specifies the time slot of the TU-2 CTP within its server

TTP or IA. The value shall be the integer which represents the position of the time slot in temporal order. The first time slot shall be numbered one.*

::

REGISTERED AS { g774Attribute 31 };

Identificación de punto de terminación de conexión de unidad afluente 3

tu3CTPId ATTRIBUTE

WITH ATTRIBUTE SYNTAX SDH.NameType;

MATCHES FOR EQUALITY, **ORDERING**;

BEHAVIOUR

tu3CTPIdBehaviour BEHAVIOUR

DEFINED AS

This attribute is used as an RDN for naming instances of the tu3CTP object classes. This attribute specifies the time slot of the TU-3 CTP within its server TTP or IA. The value shall be the integer which represents the position of the time slot in temporal order. The first time slot shall be numbered one.

::

REGISTERED AS { g774Attribute 32 };

Identificación de TUG-2

tug2Id ATTRIBUTE

WITH ATTRIBUTE SYNTAX SDH.NameType;

MATCHES FOR EQUALITY, **ORDERING**;

BEHAVIOUR

tug2IdBehaviour BEHAVIOUR

DEFINED AS

The tug2Id attribute is an attribute type whose distinguished value can be used as an RDN when naming an instance of the TUG-2 managed object class. This attribute specifies the time slot of the TUG-2 within its server TTP or IA. The value shall be the integer which represents the position of the time slot in temporal order. The first time slot shall be numbered one.

::

REGISTERED AS { g774Attribute 33 };

Identificación de TUG-3

tug3Id ATTRIBUTE

WITH ATTRIBUTE SYNTAX SDH.NameType;

MATCHES FOR EQUALITY, **ORDERING**;

BEHAVIOUR

tug3IdBehaviour BEHAVIOUR

DEFINED AS

The tug3Id attribute is an attribute type whose distinguished value can be used as an RDN when naming an instance of the TUG-3 managed object class. This attribute specifies the time slot of the TUG3 within its server TTP or IA. The value shall be the integer which represents the position of the time slot in temporal order. The first time slot shall be numbered one.

::

REGISTERED AS { g774Attribute 34 };

Etiqueta de señal V5 esperada

v5SignalLabelExpected ATTRIBUTE

WITH ATTRIBUTE SYNTAX SDH.V5SignalLabel;

MATCHES FOR EQUALITY;

BEHAVIOUR

v5SignalLabelExpectedBehaviour BEHAVIOUR

DEFINED AS

This attribute specifies the expected V5 VC Signal Label for an incoming VC-n. See Recommendation G.707 for a list of valid values.

::

REGISTERED AS { g774Attribute 35 };

Etiqueta de señal V5 en recepción

v5SignalLabelReceive ATTRIBUTE

WITH ATTRIBUTE SYNTAX SDH.V5SignalLabel;

MATCHES FOR EQUALITY;

BEHAVIOUR

v5SignalLabelReceiveBehaviour BEHAVIOUR

DEFINED AS

This attribute specifies the V5 VC Signal Label for an incoming VC-n. See Recommendation G.707 for a list of valid values.

::

REGISTERED AS { g774Attribute 36 };

Etiqueta de señal V5 en emisión

v5SignalLabelSend ATTRIBUTE

WITH ATTRIBUTE SYNTAX SDH.V5SignalLabel;

MATCHES FOR EQUALITY;

BEHAVIOUR

v5SignalLabelSendBehaviour BEHAVIOUR

DEFINED AS

This attribute specifies the V5 VC Signal Label for an outgoing VC-n. See Recommendation G.707 for a list of valid values.

::

REGISTERED AS { g774Attribute 37 };

Identificación de punto de terminación de camino de contenedor virtual 11

vc11TTPId ATTRIBUTE

WITH ATTRIBUTE SYNTAX SDH.NameType;

MATCHES FOR EQUALITY, **ORDERING, SUBSTRINGS;**

BEHAVIOUR

vc11TTPIdBehaviour BEHAVIOUR

DEFINED AS

This attribute is used as an RDN for naming instances of the vc11TTP object classes. If the string choice of the syntax is used then matching on substrings is permitted. If the number choice for the syntax is used then matching on ordering is permitted.

::

REGISTERED AS { g774Attribute 38 };

Identificación de punto de terminación de camino de contenedor virtual 12

vc12TTPId ATTRIBUTE

WITH ATTRIBUTE SYNTAX SDH.NameType;

MATCHES FOR EQUALITY, **ORDERING, SUBSTRINGS;**

BEHAVIOUR

vc12TTPIdBehaviour BEHAVIOUR

DEFINED AS

This attribute is used as an RDN for naming instances of the vc12TTP object classes. If the string choice of the syntax is used then matching on substrings is permitted. If the number choice for the syntax is used then matching on ordering is permitted.

::

REGISTERED AS { g774Attribute 39 };

Identificación de punto de terminación de camino de contenedor virtual 2

```
vc2TTPId ATTRIBUTE
  WITH ATTRIBUTE SYNTAX SDH.NameType;
  MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;
  BEHAVIOUR
  vc2TTPIdBehaviour BEHAVIOUR
    DEFINED AS
      *This attribute is used as an RDN for naming instances of the vc2TTP object
      classes. If the string choice of the syntax is used then matching on substrings
      is permitted. If the number choice for the syntax is used then matching on
      ordering is permitted.*
    ;;
REGISTERED AS { g774Attribute 40 };
```

Identificación de punto de terminación de camino de contenedor virtual 3

```
vc3TTPId ATTRIBUTE
  WITH ATTRIBUTE SYNTAX SDH.NameType;
  MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;
  BEHAVIOUR
  vc3TTPIdBehaviour BEHAVIOUR
    DEFINED AS
      *This attribute is used as an RDN for naming instances of the vc3TTP object
      classes. If the string choice of the syntax is used then matching on substrings
      is permitted. If the number choice for the syntax is used then matching on
      ordering is permitted.*
    ;;
REGISTERED AS { g774Attribute 41 };
```

Identificación de punto de terminación de camino de contenedor virtual 4

```
vc4TTPId ATTRIBUTE
  WITH ATTRIBUTE SYNTAX SDH.NameType;
  MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;
  BEHAVIOUR
  vc4TTPIdBehaviour BEHAVIOUR
    DEFINED AS
      *This attribute is used as an RDN for naming instances of the vc4TTP object
      classes. If the string choice of the syntax is used then matching on substrings
      is permitted. If the number choice for the syntax is used then matching on
      ordering is permitted.*
    ;;
REGISTERED AS { g774Attribute 42 };
```

Modificaciones que requieren nuevo registro

Esta cláusula proporciona las definiciones de atributo sustitutivas para la actual Recomendación G.774 (1992). Todo atributo sustituido en esta cláusula se considera desaprobadado. Los motivos para la sustitución de un atributo son los siguientes:

- 1) El atributo sustituido está defectuoso y se debe corregir.

A continuación figura una tabla de atributos desaprobadados de la Recomendación G.774 (1992):

Atributos G.774 1992 desaprobadados

ferfState

6 Vinculaciones de nombres

Modificaciones que requieren nuevo registro

Esta cláusula proporciona las definiciones de vinculaciones de nombres sustitutivas para la actual Recomendación G.774 (1992). Todas las vinculaciones de nombres sustituidas en esta cláusula se consideran desaprobadas. Los motivos para la sustitución de una vinculación de nombre son los siguientes:

- 1) La vinculación de nombre sustituida está defectuosa y se debe corregir.
- 2) La vinculación de nombre sustituida se refiere a una clase de objeto gestionado superior que ha sido registrada de nuevo en la presente Recomendación.
- 3) La vinculación de nombre sustituida se refiere a una clase de objeto gestionado subordinado que ha sido registrada de nuevo en la presente Recomendación.
- 4) La vinculación de nombre sustituida se refiere a un atributo de denominación que ha sido registrado de nuevo en la presente Recomendación.

En cada caso en que una vinculación de nombre es sustituida, la nueva vinculación de nombre se registrará en la presente Recomendación. La etiqueta textual para la vinculación de nombre se modificará para incluir el texto "R1". Por ejemplo, en la revisión de la vinculación de nombre G.774 (1992) "vcnUserChannelCTPSource-vc4TTPSource", la etiqueta modificada será "vcnUserChannelCTPSource-vc4TTPSourceR1", o en el caso de la vinculación de nombre "vc4TTPSink-sdhNE", la etiqueta modificada será "vc4TTPSinkR1-sdhNE". Obsérvese que "R1" se coloca inmediatamente después de la clase modificada que afecta a la vinculación de nombre.

A continuación figura una tabla de vinculaciones de nombres desaprobados de la Recomendación G.774 (1992) y las vinculaciones de nombre G.774 que las sustituyen:

Vinculaciones de nombres G.774 (1992) desaprobadas

vcnUserChannelCTPBidirectional-vc3TTPBidirectional
vcnUserChannelCTPSink-vc3TTPBidirectional
vcnUserChannelCTPSink-vc3TTPSink
vcnUserChannelCTPSource-vc3TTPBidirectional
vcnUserChannelCTPSource-vc3TTPSource
vcnUserChannelCTPBidirectional-vc4TTPBidirectional
vcnUserChannelCTPSink-vc4TTPBidirectional
vcnUserChannelCTPSink-vc4TTPSink
vcnUserChannelCTPSource-vc4TTPBidirectional
vcnUserChannelCTPSource-vc4TTPSource
au3CTPBidirectional-augBidirectional
au3CTPSink-augBidirectional
au3CTPSink-augSink
au4CTPBidirectional-augBidirectional
au4CTPSink-augBidirectional
au4CTPSink-augSink
tu11CTPBidirectional-tug2Bidirectional
tu11CTPSink-tug2Bidirectional
tu11CTPSink-tug2Sink
tu12CTPBidirectional-tug2Bidirectional
tu12CTPSink-tug2Bidirectional
tu12CTPSink-tug2Sink
tu2CTPBidirectional-tug2Bidirectional
tu2CTPSink-tug2Bidirectional
tu2CTPSink-tug2Sink
tu3CTPBidirectional-tug3Bidirectional
tu3CTPSink-tug3Bidirectional
tu3CTPSink-tug3Sink

tug2Bidirectional-vc3TTPBidirectional
tug2Sink-vc3TTPSink
tug2Source-vc3TTPSource
tug3Bidirectional-vc4TTPBidirectional
tug3Sink-vc4TTPSink
tug3Source-vc4TTPSource
vc11TTPBidirectional-sdhNE
vc11TTPSink-sdhNE
vc12TTPBidirectional-sdhNE
vc12TTPSink-sdhNE
vc2TTPBidirectional-sdhNE
vc2TTPSink-sdhNE
vc3TTPBidirectional-sdhNE
vc3TTPSink-sdhNE
vc3TTPSource-sdhNE
vc4TTPBidirectional-sdhNE
vc4TTPSink-sdhNE
vc4TTPSource-sdhNE

Vinculaciones de nombre G.774 sustitutivas

vcnUserChannelCTPBidirectional-vc3TTPBidirectionalR1
vcnUserChannelCTPSink-vc3TTPBidirectionalR1
vcnUserChannelCTPSink-vc3TTPSinkR1
vcnUserChannelCTPSource-vc3TTPBidirectionalR1
vcnUserChannelCTPSource-vc3TTPSourceR1
vcnUserChannelCTPBidirectional-vc4TTPBidirectionalR1
vcnUserChannelCTPSink-vc4TTPBidirectionalR1
vcnUserChannelCTPSink-vc4TTPSinkR1
vcnUserChannelCTPSource-vc4TTPBidirectionalR1
vcnUserChannelCTPSource-vc4TTPSourceR1
au3CTPBidirectionalR1-augBidirectional
au3CTPSinkR1-augBidirectional
au3CTPSinkR1-augSink
au4CTPBidirectionalR1-augBidirectional
au4CTPSink-augBidirectional
au4CTPSinkR1-augSink
tu11CTPBidirectionalR1-tug2Bidirectional
tu11CTPSinkR1-tug2Bidirectional
tu11CTPSinkR1-tug2Sink
tu12CTPBidirectionalR1-tug2Bidirectional
tu12CTPSinkR1-tug2Bidirectional
tu12CTPSinkR1-tug2Sink
tu2CTPBidirectionalR1-tug2Bidirectional
tu2CTPSinkR1-tug2Bidirectional
tu2CTPSinkR1-tug2Sink
tu3CTPBidirectionalR1-tug3Bidirectional
tu3CTPSinkR1-tug3Bidirectional
tu3CTPSinkR1-tug3Sink
tug2Bidirectional-vc3TTPBidirectionalR1
tug2Sink-vc3TTPSinkR1
tug2Source-vc3TTPSourceR1
tug3Bidirectional-vc4TTPBidirectionalR1
tug3Sink-vc4TTPSinkR1
tug3Source-vc4TTPSourceR1
vc11TTPBidirectionalR1-sdhNE
vc11TTPSinkR1-sdhNE
vc12TTPBidirectionalR1-sdhNE
vc12TTPSinkR1-sdhNE
vc2TTPBidirectionalR1-sdhNE
vc2TTPSinkR1-sdhNE

vc3TTPBidirectionalR1-sdhNE
vc3TTPSinkR1-sdhNE
vc3TTPSourceR1-sdhNE
vc4TTPBidirectionalR1-sdhNE
vc4TTPSinkR1-sdhNE
vc4TTPSourceR1-sdhNE

au3CTPBidirectionalR1-augBidirectional NAME BINDING
SUBORDINATE OBJECT CLASS au3CTPBidirectionalR1;
NAMED BY SUPERIOR OBJECT CLASS
"Recommendation G.774:1992":augBidirectional;
WITH ATTRIBUTE "Recommendation G.774:1992":au3CTPId;
BEHAVIOUR
au3CTPBidirectionalR1-augBidirectionalBehaviour BEHAVIOUR
DEFINED AS
*The subordinate managed objects are automatically instantiated when the
superior managed object is instantiated, according to the make-up and mode of
operation of the equipment.*
;;
REGISTERED AS { g774NameBinding 121 };

au3CTPSinkR1-augBidirectional NAME BINDING
SUBORDINATE OBJECT CLASS au3CTPSinkR1;
NAMED BY SUPERIOR OBJECT CLASS
"Recommendation G.774:1992":augBidirectional;
WITH ATTRIBUTE "Recommendation G.774:1992":au3CTPId;
BEHAVIOUR
au3CTPSinkR1-augBidirectionalBehaviour BEHAVIOUR
DEFINED AS
*The subordinate managed objects are automatically instantiated when the
superior managed object is instantiated, according to the make-up and mode of
operation of the equipment.*
;;
REGISTERED AS { g774NameBinding 122 };

au3CTPSinkR1-augSink NAME BINDING
SUBORDINATE OBJECT CLASS au3CTPSinkR1;
NAMED BY SUPERIOR OBJECT CLASS "Recommendation G.774:1992":augSink;
WITH ATTRIBUTE "Recommendation G.774:1992":au3CTPId;
BEHAVIOUR
au3CTPSinkR1-augSinkBehaviour BEHAVIOUR
DEFINED AS
*The subordinate managed objects are automatically instantiated when the
superior managed object is instantiated, according to the make-up and mode of
operation of the equipment.*
;;
REGISTERED AS { g774NameBinding 123 };

au4CTPBidirectionalR1-augBidirectional NAME BINDING
SUBORDINATE OBJECT CLASS au4CTPBidirectional R1;
NAMED BY SUPERIOR OBJECT CLASS
"Recommendation G.774:1992":augBidirectional;
WITH ATTRIBUTE "Recommendation G.774:1992":au4CTPId;
BEHAVIOUR
au4CTPBidirectional R1-augBidirectionalBehaviour BEHAVIOUR
DEFINED AS
*The subordinate managed object is automatically instantiated when the superior
managed object is instantiated, according to the make-up and mode of operation
of the equipment.*
;;
REGISTERED AS { g774NameBinding 124 };

au4CTPSinkR1-augBidirectional NAME BINDING
 SUBORDINATE OBJECT CLASS au4CTPSinkR1;
 NAMED BY SUPERIOR OBJECT CLASS "Recommendation G.774:1992":augBidirectional;
 WITH ATTRIBUTE "Recommendation G.774:1992":au4CTPId;
 BEHAVIOUR
 au4CTPSinkR1-augBidirectionalBehaviour BEHAVIOUR
 DEFINED AS
 *The subordinate managed object is automatically instantiated when the superior
 managed object is instantiated, according to the make-up and mode of operation
 of the equipment.*
 ;;
 REGISTERED AS { g774NameBinding 125 };

au4CTPSinkR1-augSink NAME BINDING
 SUBORDINATE OBJECT CLASS au4CTPSinkR1;
 NAMED BY SUPERIOR OBJECT CLASS "Recommendation G.774:1992":augSink;
 WITH ATTRIBUTE "Recommendation G.774:1992":au4CTPId;
 BEHAVIOUR
 au4CTPSinkR1-augSinkBehaviour BEHAVIOUR
 DEFINED AS
 *The subordinate managed object is automatically instantiated when the superior
 managed object is instantiated, according to the make-up and mode of operation
 of the equipment.*
 ;;
 REGISTERED AS { g774NameBinding 126 };

tu11CTPBidirectionalR1-tug2Bidirectional NAME BINDING
 SUBORDINATE OBJECT CLASS tu11CTPBidirectionalR1;
 NAMED BY SUPERIOR OBJECT CLASS
 "Recommendation G.774:1992":tug2Bidirectional;
 WITH ATTRIBUTE "Recommendation G.774:1992":tu11CTPId;
 BEHAVIOUR
 tu11CTPBidirectionalR1-tug2BidirectionalBehaviour BEHAVIOUR
 DEFINED AS
 *The subordinate managed objects are automatically instantiated when the
 superior managed object is instantiated, according to the make-up and mode of
 operation of the equipment.*
 ;;
 REGISTERED AS { g774NameBinding 127 };

tu11CTPSinkR1-tug2Bidirectional NAME BINDING
 SUBORDINATE OBJECT CLASS tu11CTPSinkR1;
 NAMED BY SUPERIOR OBJECT CLASS
 "Recommendation G.774:1992":tug2Bidirectional;
 WITH ATTRIBUTE "Recommendation G.774:1992":tu11CTPId;
 BEHAVIOUR
 tu11CTPSinkR1-tug2BidirectionalBehaviour BEHAVIOUR
 DEFINED AS
 *The subordinate managed objects are automatically instantiated when the
 superior managed object is instantiated, according to the make-up and mode of
 operation of the equipment.*
 ;;
 REGISTERED AS { g774NameBinding 128 };

tu11CTPSinkR1-tug2Sink NAME BINDING
 SUBORDINATE OBJECT CLASS tu11CTPSinkR1;
 NAMED BY SUPERIOR OBJECT CLASS "Recommendation G.774:1992":tug2Sink;
 WITH ATTRIBUTE "Recommendation G.774:1992":tu11CTPId;

BEHAVIOUR

tu11CTPSinkR1-tug2SinkBehaviour BEHAVIOUR

DEFINED AS

The subordinate managed objects are automatically instantiated when the superior managed object is instantiated, according to the make-up and mode of operation of the equipment.

::

REGISTERED AS { g774NameBinding 129 };

tu12CTPBidirectionalR1-tug2Bidirectional NAME BINDING

SUBORDINATE OBJECT CLASS tu12CTPBidirectionalR1;

NAMED BY SUPERIOR OBJECT CLASS

"Recommendation G.774:1992":tug2Bidirectional;

WITH ATTRIBUTE "Recommendation G.774:1992":tu12CTPId;

BEHAVIOUR

tu12CTPBidirectionalR1-tug2BidirectionalBehaviour BEHAVIOUR

DEFINED AS

The subordinate managed objects are automatically instantiated when the superior managed object is instantiated, according to the make-up and mode of operation of the equipment.

::

REGISTERED AS { g774NameBinding 130 };

tu12CTPSinkR1-tug2Bidirectional NAME BINDING

SUBORDINATE OBJECT CLASS tu12CTPSinkR1;

NAMED BY SUPERIOR OBJECT CLASS

"Recommendation G.774:1992":tug2Bidirectional;

WITH ATTRIBUTE "Recommendation G.774:1992":tu12CTPId;

BEHAVIOUR

tu12CTPSinkR1-tug2BidirectionalBehaviour BEHAVIOUR

DEFINED AS

The subordinate managed objects are automatically instantiated when the superior managed object is instantiated, according to the make-up and mode of operation of the equipment.

::

REGISTERED AS { g774NameBinding 131 };

tu12CTPSinkR1-tug2Sink NAME BINDING

SUBORDINATE OBJECT CLASS tu12CTPSinkR1;

NAMED BY SUPERIOR OBJECT CLASS "Recommendation G.774:1992":tug2Sink;

WITH ATTRIBUTE "Recommendation G.774:1992":tu12CTPId;

BEHAVIOUR

tu12CTPSinkR1-tug2SinkBehaviour BEHAVIOUR

DEFINED AS

The subordinate managed objects are automatically instantiated when the superior managed object is instantiated, according to the make-up and mode of operation of the equipment.

::

REGISTERED AS { g774NameBinding 132 };

tu2CTPBidirectionalR1-tug2Bidirectional NAME BINDING

SUBORDINATE OBJECT CLASS tu2CTPBidirectionalR1;

NAMED BY SUPERIOR OBJECT CLASS "Recommendation G.774:1992":tug2Bidirectional;

WITH ATTRIBUTE "Recommendation G.774:1992":tu2CTPId;

BEHAVIOUR

tu2CTPBidirectionalR1-tug2BidirectionalBehaviour BEHAVIOUR

DEFINED AS

*The subordinate managed object is automatically instantiated when the superior managed object is instantiated, according to the make-up and mode of operation

```

of the equipment.*
;;
REGISTERED AS { g774NameBinding 133 };

tu2CTPSinkR1-tug2Bidirectional NAME BINDING
SUBORDINATE OBJECT CLASS      tu2CTPSinkR1;
NAMED BY SUPERIOR OBJECT CLASS
"Recommendation G.774:1992":tug2Bidirectional;
WITH ATTRIBUTE "Recommendation G.774:1992":tu2CTPIId;
BEHAVIOUR
tu2CTPSinkR1-tug2BidirectionalBehaviour BEHAVIOUR
DEFINED AS
*The subordinate managed object is automatically instantiated when the superior
managed object is instantiated, according to the make-up and mode of operation
of the equipment.*
;;
REGISTERED AS { g774NameBinding 134 };

tu2CTPSinkR1-tug2Sink NAME BINDING
SUBORDINATE OBJECT CLASS      tu2CTPSinkR1;
NAMED BY SUPERIOR OBJECT CLASS "Recommendation G.774:1992":tug2Sink;
WITH ATTRIBUTE "Recommendation G.774:1992":tu2CTPIId;
BEHAVIOUR
tu2CTPSinkR1-tug2SinkBehaviour BEHAVIOUR
DEFINED AS
*The subordinate managed object is automatically instantiated when the superior
managed object is instantiated, according to the make-up and mode of operation
of the equipment.*
;;
REGISTERED AS { g774NameBinding 135 };

tu3CTPBidirectionalR1-tug3Bidirectional NAME BINDING
SUBORDINATE OBJECT CLASS      tu3CTPBidirectionalR1;
NAMED BY SUPERIOR OBJECT CLASS
"Recommendation G.774:1992":tug3Bidirectional;
WITH ATTRIBUTE "Recommendation G.774:1992":tu3CTPIId;
BEHAVIOUR
tu3CTPBidirectionalR1-tug3BidirectionalBehaviour BEHAVIOUR
DEFINED AS
*The subordinate managed object is automatically instantiated when the superior
managed object is instantiated, according to the make-up and mode of operation
of the equipment.*
;;
REGISTERED AS { g774NameBinding 136 };

tu3CTPSinkR1-tug3Bidirectional NAME BINDING
SUBORDINATE OBJECT CLASS      tu3CTPSinkR1;
NAMED BY SUPERIOR OBJECT CLASS
"Recommendation G.774:1992":tug3Bidirectional;
WITH ATTRIBUTE "Recommendation G.774:1992":tu3CTPIId;
BEHAVIOUR
tu3CTPSinkR1-tug3BidirectionalBehaviour BEHAVIOUR
DEFINED AS
*The subordinate managed object is automatically instantiated when the superior
managed object is instantiated, according to the make-up and mode of operation
of the equipment.*
;;
REGISTERED AS { g774NameBinding 137 };

tu3CTPSinkR1-tug3Sink NAME BINDING
SUBORDINATE OBJECT CLASS      tu3CTPSinkR1;

```

```

NAMED BY SUPERIOR OBJECT CLASS "Recommendation G.774:1992":tug3Sink;
WITH ATTRIBUTE "Recommendation G.774:1992":tu3CTPIId;
BEHAVIOUR
tu3CTPSinkR1-tug3SinkBehaviour BEHAVIOUR
  DEFINED AS
    *The subordinate managed object is automatically instantiated when the superior
    managed object is instantiated, according to the make-up and mode of operation
    of the equipment.*
;;
REGISTERED AS { g774NameBinding 138 };

tug2Bidirectional-vc3TTPBidirectionalR1 NAME BINDING
SUBORDINATE OBJECT CLASS
  "Recommendation G.774:1992":tug2Bidirectional;
NAMED BY SUPERIOR OBJECT CLASS vc3TTPBidirectionalR1;
WITH ATTRIBUTE "Recommendation G.774:1992":tug2Id;
BEHAVIOUR
tug2Bidirectional-vc3TTPBidirectionalR1Behaviour BEHAVIOUR
  DEFINED AS
    *The subordinate managed objects are automatically instantiated when the
    superior managed object is instantiated, according to the make-up and mode of
    operation of the equipment.*
;;
REGISTERED AS { g774NameBinding 139 };

tug2Sink-vc3TTPSinkR1 NAME BINDING
SUBORDINATE OBJECT CLASS      "Recommendation G.774:1992":tug2Sink;
NAMED BY SUPERIOR OBJECT CLASS vc3TTPSinkR1;
WITH ATTRIBUTE "Recommendation G.774:1992":tug2Id;
BEHAVIOUR
tug2Sink-vc3TTPSinkR1Behaviour BEHAVIOUR
  DEFINED AS
    *The subordinate managed objects are automatically instantiated when the
    superior managed object is instantiated, according to the make-up and mode of
    operation of the equipment.*
;;
REGISTERED AS { g774NameBinding 140 };

tug2Source-vc3TTPSourceR1 NAME BINDING
SUBORDINATE OBJECT CLASS      "Recommendation G.774:1992":tug2Source;
NAMED BY SUPERIOR OBJECT CLASS vc3TTPSourceR1;
WITH ATTRIBUTE "Recommendation G.774:1992":tug2Id;
BEHAVIOUR
tug2Source-vc3TTPSourceR1Behaviour BEHAVIOUR
  DEFINED AS
    *The subordinate managed objects are automatically instantiated when the
    superior managed object is instantiated, according to the make-up and mode of
    operation of the equipment.*
;;
REGISTERED AS { g774NameBinding 141 };

tug3Bidirectional-vc4TTPBidirectionalR1 NAME BINDING
SUBORDINATE OBJECT CLASS
  "Recommendation G.774:1992":tug3Bidirectional;
NAMED BY SUPERIOR OBJECT CLASS vc4TTPBidirectionalR1;
WITH ATTRIBUTE "Recommendation G.774:1992":tug3Id;
BEHAVIOUR
tug3Bidirectional-vc4TTPBidirectionalR1Behaviour BEHAVIOUR

```

DEFINED AS

The subordinate managed objects are automatically instantiated when the superior managed object is instantiated, according to the make-up and mode of operation of the equipment.

::

REGISTERED AS { g774NameBinding 142 };

tug3Sink-vc4TTPSinkR1 NAME BINDING

SUBORDINATE OBJECT CLASS "Recommendation G.774:1992":tug3Sink;

NAMED BY SUPERIOR OBJECT CLASS vc4TTPSinkR1;

WITH ATTRIBUTE "Recommendation G.774:1992":tug3Id;

BEHAVIOUR

tug3Sink-vc4TTPSinkR1Behaviour BEHAVIOUR

DEFINED AS

The subordinate managed objects are automatically instantiated when the superior managed object is instantiated, according to the make-up and mode of operation of the equipment.

::

REGISTERED AS { g774NameBinding 143 };

tug3Source-vc4TTPSourceR1 NAME BINDING

SUBORDINATE OBJECT CLASS "Recommendation G.774:1992":tug3Source;

NAMED BY SUPERIOR OBJECT CLASS vc4TTPSourceR1;

WITH ATTRIBUTE "Recommendation G.774:1992":tug3Id;

BEHAVIOUR

tug3Source-vc4TTPSourceR1Behaviour BEHAVIOUR

DEFINED AS

The subordinate managed objects are automatically instantiated when the superior managed object is instantiated, according to the make-up and mode of operation of the equipment.

::

REGISTERED AS { g774NameBinding 144 };

vc11TTPBidirectionalR1-sdhNE NAME BINDING

SUBORDINATE OBJECT CLASS vc11TTPBidirectionalR1;

NAMED BY SUPERIOR OBJECT CLASS "Recommendation G.774:1992":sdhNE;

WITH ATTRIBUTE "Recommendation G.774:1992":vc11TTPId;

CREATE

WITH-REFERENCE-OBJECT,

WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE

DELETES-CONTAINED-OBJECTS;

REGISTERED AS { g774NameBinding 145 };

vc11TTPSinkR1-sdhNE NAME BINDING

SUBORDINATE OBJECT CLASS vc11TTPSinkR1;

NAMED BY SUPERIOR OBJECT CLASS "Recommendation G.774:1992":sdhNE;

WITH ATTRIBUTE "Recommendation G.774:1992":vc11TTPId;

CREATE

WITH-REFERENCE-OBJECT,

WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE

DELETES-CONTAINED-OBJECTS;

REGISTERED AS { g774NameBinding 146 };

vc12TTPBidirectionalR1-sdhNE NAME BINDING

SUBORDINATE OBJECT CLASS vc12TTPBidirectionalR1;

NAMED BY SUPERIOR OBJECT CLASS "Recommendation G.774:1992":sdhNE;

WITH ATTRIBUTE "Recommendation G.774:1992":vc12TTPId;

```

CREATE
    WITH-REFERENCE-OBJECT,
    WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE
    DELETES-CONTAINED-OBJECTS;
REGISTERED AS { g774NameBinding 147 };

vc12TTPSinkR1-sdhNE NAME BINDING
SUBORDINATE OBJECT CLASS      vc12TTPSinkR1;
NAMED BY SUPERIOR OBJECT CLASS "Recommendation G.774:1992":sdhNE;
WITH ATTRIBUTE "Recommendation G.774:1992":vc12TTPId;
CREATE
    WITH-REFERENCE-OBJECT,
    WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE
    DELETES-CONTAINED-OBJECTS;
REGISTERED AS { g774NameBinding 148 };

vc2TTPBidirectionalR1-sdhNE NAME BINDING
SUBORDINATE OBJECT CLASS      vc2TTPBidirectionalR1;
NAMED BY SUPERIOR OBJECT CLASS "Recommendation G.774:1992":sdhNE;
WITH ATTRIBUTE "Recommendation G.774:1992":vc2TTPId;
CREATE
    WITH-REFERENCE-OBJECT,
    WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE
    DELETES-CONTAINED-OBJECTS;
REGISTERED AS { g774NameBinding 149 };

vc2TTPSinkR1-sdhNE NAME BINDING
SUBORDINATE OBJECT CLASS      vc2TTPSinkR1;
NAMED BY SUPERIOR OBJECT CLASS "Recommendation G.774:1992":sdhNE;
WITH ATTRIBUTE "Recommendation G.774:1992":vc2TTPId;
CREATE
    WITH-REFERENCE-OBJECT,
    WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE
    DELETES-CONTAINED-OBJECTS;
REGISTERED AS { g774NameBinding 150 };

vc3TTPBidirectionalR1-sdhNE NAME BINDING
SUBORDINATE OBJECT CLASS      vc3TTPBidirectionalR1;
NAMED BY SUPERIOR OBJECT CLASS "Recommendation G.774:1992":sdhNE;
WITH ATTRIBUTE "Recommendation G.774:1992":vc3TTPId;
CREATE
    WITH-REFERENCE-OBJECT,
    WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE
    DELETES-CONTAINED-OBJECTS;
REGISTERED AS { g774NameBinding 151 };

vc3TTPSinkR1-sdhNE NAME BINDING
SUBORDINATE OBJECT CLASS      vc3TTPSinkR1;
NAMED BY SUPERIOR OBJECT CLASS "Recommendation G.774:1992":sdhNE;
WITH ATTRIBUTE "Recommendation G.774:1992":vc3TTPId;
CREATE
    WITH-REFERENCE-OBJECT,
    WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE
    DELETES-CONTAINED-OBJECTS;
REGISTERED AS { g774NameBinding 152 };

```

```

vc3TTPSourceR1-sdhNE NAME BINDING
  SUBORDINATE OBJECT CLASS      vc3TTPSourceR1;
  NAMED BY SUPERIOR OBJECT CLASS "Recommendation G.774:1992":sdhNE;
  WITH ATTRIBUTE "Recommendation G.774:1992":vc3TTPId;
  CREATE
    WITH-REFERENCE-OBJECT,
    WITH-AUTOMATIC-INSTANCE-NAMING;
  DELETE
    DELETES-CONTAINED-OBJECTS;
REGISTERED AS { g774NameBinding 153 };

```

```

vc4TTPBidirectionalR1-sdhNE NAME BINDING
  SUBORDINATE OBJECT CLASS      vc4TTPBidirectionalR1;
  NAMED BY SUPERIOR OBJECT CLASS "Recommendation G.774:1992":sdhNE;
  WITH ATTRIBUTE "Recommendation G.774:1992":vc4TTPId;
  CREATE
    WITH-REFERENCE-OBJECT,
    WITH-AUTOMATIC-INSTANCE-NAMING;
  DELETE
    DELETES-CONTAINED-OBJECTS;
REGISTERED AS { g774NameBinding 154 };

```

```

vc4TTPSinkR1-sdhNE NAME BINDING
  SUBORDINATE OBJECT CLASS      vc4TTPSinkR1;
  NAMED BY SUPERIOR OBJECT CLASS "Recommendation G.774:1992":sdhNE;
  WITH ATTRIBUTE "Recommendation G.774:1992":vc4TTPId;
  CREATE
    WITH-REFERENCE-OBJECT,
    WITH-AUTOMATIC-INSTANCE-NAMING;
  DELETE
    DELETES-CONTAINED-OBJECTS;
REGISTERED AS { g774NameBinding 155 };

```

```

vc4TTPSourceR1-sdhNE NAME BINDING
  SUBORDINATE OBJECT CLASS      vc4TTPSourceR1;
  NAMED BY SUPERIOR OBJECT CLASS "Recommendation G.774:1992":sdhNE;
  WITH ATTRIBUTE "Recommendation G.774:1992":vc4TTPId;
  CREATE
    WITH-REFERENCE-OBJECT,
    WITH-AUTOMATIC-INSTANCE-NAMING;
  DELETE
    DELETES-CONTAINED-OBJECTS;
REGISTERED AS { g774NameBinding 156 };

```

```

vcnUserChannelCTPBidirectional-vc3TTPBidirectionalR1 NAME BINDING
  SUBORDINATE OBJECT CLASS
    "Recommendation G.774:1992":vcnUserChannelCTPBidirectional;
  NAMED BY SUPERIOR OBJECT CLASS vc3TTPBidirectionalR1;
  WITH ATTRIBUTE "Recommendation G.774:1992":vcnUserChannelCTPId;
  BEHAVIOUR
    vcnUserChannelCTPBidirectional-vc3TTPBidirectionalR1Behaviour BEHAVIOUR
    DEFINED AS
      *The subordinate managed object is automatically instantiated when the superior
      managed object is instantiated, according to the make-up and mode of operation
      of the equipment.*
  ;;
REGISTERED AS { g774NameBinding 157 };

```

```

vcnUserChannelCTPSink-vc3TTPBidirectionalR1 NAME BINDING
SUBORDINATE OBJECT CLASS
"Recommendation G.774:1992":vcnUserChannelCTPSink;
NAMED BY SUPERIOR OBJECT CLASS vc3TTPBidirectionalR1;
WITH ATTRIBUTE "Recommendation G.774:1992":vcnUserChannelCTPId;
BEHAVIOUR
vcnUserChannelCTPSink-vc3TTPBidirectionalR1Behaviour BEHAVIOUR
DEFINED AS
*The subordinate managed object is automatically instantiated when the superior
managed object is instantiated, according to the make-up and mode of operation
of the equipment.*
;;
REGISTERED AS { g774NameBinding 158 };

```

```

vcnUserChannelCTPSink-vc3TTPSinkR1 NAME BINDING
SUBORDINATE OBJECT CLASS
"Recommendation G.774:1992":vcnUserChannelCTPSink;
NAMED BY SUPERIOR OBJECT CLASS vc3TTPSinkR1;
WITH ATTRIBUTE "Recommendation G.774:1992":vcnUserChannelCTPId;
BEHAVIOUR
vcnUserChannelCTPSink-vc3TTPSinkR1Behaviour BEHAVIOUR
DEFINED AS
*The subordinate managed object is automatically instantiated when the superior
managed object is instantiated, according to the make-up and mode of operation
of the equipment.*
;;
REGISTERED AS { g774NameBinding 159 };

```

```

vcnUserChannelCTPSource-vc3TTPBidirectionalR1 NAME BINDING
SUBORDINATE OBJECT CLASS
"Recommendation G.774:1992":vcnUserChannelCTPSource;
NAMED BY SUPERIOR OBJECT CLASS vc3TTPBidirectionalR1;
WITH ATTRIBUTE "Recommendation G.774:1992":vcnUserChannelCTPId;
BEHAVIOUR
vcnUserChannelCTPSource-vc3TTPBidirectionalR1Behaviour BEHAVIOUR
DEFINED AS
*The subordinate managed object is automatically instantiated when the superior
managed object is instantiated, according to the make-up and mode of operation
of the equipment.*
;;
REGISTERED AS { g774NameBinding 160 };

```

```

vcnUserChannelCTPSource-vc3TTPSourceR1 NAME BINDING
SUBORDINATE OBJECT CLASS
"Recommendation G.774:1992":vcnUserChannelCTPSource;
NAMED BY
SUPERIOR OBJECT CLASS vc3TTPSourceR1;
WITH ATTRIBUTE
"Recommendation G.774:1992":vcnUserChannelCTPId;
BEHAVIOUR
vcnUserChannelCTPSource-vc3TTPSourceR1Behaviour BEHAVIOUR
DEFINED AS
*The subordinate managed object is automatically instantiated when the superior
managed object is instantiated, according to the make-up and mode of operation
of the equipment.*
;;
REGISTERED AS { g774NameBinding 161 };

```

```

vcnUserChannelCTPBidirectional-vc4TTPBidirectionalR1 NAME BINDING
SUBORDINATE OBJECT CLASS
"Recommendation G.774:1992":vcnUserChannelCTPBidirectional;

```

```

NAMED BY SUPERIOR OBJECT CLASS vc4TTPBidirectionalR1;
WITH ATTRIBUTE "Recommendation G.774:1992":vcnUserChannelCTPId;
BEHAVIOUR
vcnUserChannelCTPBidirectional-vc4TTPBidirectionalR1Behaviour BEHAVIOUR
DEFINED AS
    *The subordinate managed object is automatically instantiated when the superior
    managed object is instantiated, according to the make-up and mode of operation
    of the equipment.*
;;
REGISTERED AS { g774NameBinding 162 };

vcnUserChannelCTPSink-vc4TTPBidirectionalR1 NAME BINDING
SUBORDINATE OBJECT CLASS
"Recommendation G.774:1992":vcnUserChannelCTPSink;
NAMED BY SUPERIOR OBJECT CLASS vc4TTPBidirectionalR1;
WITH ATTRIBUTE "Recommendation G.774:1992":vcnUserChannelCTPId;
BEHAVIOUR
vcnUserChannelCTPSink-vc4TTPBidirectionalR1Behaviour BEHAVIOUR
DEFINED AS
    *The subordinate managed object is automatically instantiated when the superior
    managed object is instantiated, according to the make-up and mode of operation
    of the equipment.*
;;
REGISTERED AS { g774NameBinding 163 };

vcnUserChannelCTPSink-vc4TTPSinkR1 NAME BINDING
SUBORDINATE OBJECT CLASS
"Recommendation G.774:1992":vcnUserChannelCTPSink;
NAMED BY SUPERIOR OBJECT CLASS vc4TTPSinkR1;
WITH ATTRIBUTE "Recommendation G.774:1992":vcnUserChannelCTPId;
BEHAVIOUR
vcnUserChannelCTPSink-vc4TTPSinkR1Behaviour BEHAVIOUR
DEFINED AS
    *The subordinate managed object is automatically instantiated when the superior
    managed object is instantiated, according to the make-up and mode of operation
    of the equipment.*
;;
REGISTERED AS { g774NameBinding 164 };

vcnUserChannelCTPSource-vc4TTPBidirectionalR1 NAME BINDING
SUBORDINATE OBJECT CLASS
"Recommendation G.774:1992":vcnUserChannelCTPSource;
NAMED BY SUPERIOR OBJECT CLASS vc4TTPBidirectionalR1;
WITH ATTRIBUTE "Recommendation G.774:1992":vcnUserChannelCTPId;
BEHAVIOUR
vcnUserChannelCTPSource-vc4TTPBidirectionalR1Behaviour BEHAVIOUR
DEFINED AS
    *The subordinate managed object is automatically instantiated when the superior
    managed object is instantiated, according to the make-up and mode of operation
    of the equipment.*
;;
REGISTERED AS { g774NameBinding 165 };

vcnUserChannelCTPSource-vc4TTPSourceR1 NAME BINDING
SUBORDINATE OBJECT CLASS
"Recommendation G.774:1992":vcnUserChannelCTPSource;
NAMED BY SUPERIOR OBJECT CLASS vc4TTPSourceR1;
WITH ATTRIBUTE "Recommendation G.774:1992":vcnUserChannelCTPId;
BEHAVIOUR
vcnUserChannelCTPSource-vc4TTPSourceR1Behaviour BEHAVIOUR

```

DEFINED AS

The subordinate managed object is automatically instantiated when the superior managed object is instantiated, according to the make-up and mode of operation of the equipment.

::

REGISTERED AS { g774NameBinding 166 };

7 ASN.1 aplicada

Modificaciones que no requieren nuevo registro

El siguiente texto sustituye toda la cláusula 7/G.774 (1992). Para mayor claridad, todas las adiciones se indican en **negritas**.

SDH {itu-t(0) Recommendation(0) g(7) sdhm(774) informationModel(0) asn1Module(2) sdh(0)}

DEFINITIONS IMPLICIT TAGS ::=

BEGIN

IMPORTS

NameType -- Recommendation M.3100

FROM ASN1DefinedTypesModule {itu-t(0) recommendation(0) m(13) gnm(3100) informationModel(0) asn1Modules(2) asn1DefinedTypeModule(0)}

;

g774 OBJECT IDENTIFIER ::= {itu-t(0) recommendation(0) g(7) sdhm(774) informationModel(0)}

g774ObjectClass OBJECT IDENTIFIER ::= {g774 managedObjectClass(3)}

g774Attribute OBJECT IDENTIFIER ::= {g774 attribute(7)}

g774NameBinding OBJECT IDENTIFIER ::= {g774 nameBinding(6)}

Boolean ::= BOOLEAN

C2SignalLabel ::= INTEGER (0..255)

FerfState ::= ENUMERATED {
 automatic(0),
 forceOn(1),
 forceOff(2)
}

Integer ::= INTEGER

OpticalReach ::= ENUMERATED {
 intraOffice(0),
 shortHaul(1),
 longHaul(2)
}

OpticalWavelength ::= ENUMERATED {
 w1310(0),
 w1550(1)
}

PathTrace ::= CHOICE {
 null NULL,
 pathtrace [1] GRAPHICSTRING
}

-- Referring to PointerSinkType. The ENUMERATED value of invalidPointer(2)
-- should be used when a LOP condition exists or if the pointer value is unknown.

```
PointerSinkType ::= ENUMERATED {  
    normalPointer(0),  
    concatenationIndication(1),  
    invalidPointer(2)  
}  
  
PointerSourceType ::= ENUMERATED {  
    normalPointer(0),  
    concatenationIndication(1)  
}  
  
V5SignalLabel ::= INTEGER (0..7)  
  
END
```

Modificaciones que no requieren nuevo registro

A continuación figura una tabla de definiciones de sintaxis ASN.1 desaprobadas de la actual Recomendación G.774 (1992) módulo ASN.1 SDH {itu-t(0) recommendation(0) g(7) sdmh(774) informationModel(0) asn1Module(2) sdh(0)}

Sintaxis ASN.1 G.774 (1992) desaprobada

FerfState

A continuación figura una tabla de las definiciones de sintaxis ASN.1 añadidas a la actual Recomendación G.774 (1992) módulo ASN.1 SDH {ccitt(0) recommendation(0) g(7) sdmh(774) informationModel(0) asn1Module(2) sdh(0)}

Sintaxis ASN.1 G.774 adicional

Null ::= NULL

8 Relaciones de objetos

No se requieren modificaciones.

8.1 Sintaxis

No se requieren modificaciones.

8.1.1 Plantillas de reglas de subordinación

No se requieren modificaciones.

8.1.2 Plantillas de reglas de restricción

No se requieren modificaciones.

8.2 Restricciones de puntero de conectividad

Modificaciones que no requieren nuevo registro

El siguiente texto sustituye el texto de 8.2/G.774 (1992) asociado con las siguientes reglas de restricciones solamente. Para mayor claridad, todas las adiciones se indican en **negritas**.

upstreamConnectivityPointer-rsTTPSink
upstreamConnectivityPointer-rsTTPSource

Todas las reglas de constricciones definidas en la Recomendación G.774 (1992) que no se mencionan aquí se mantienen sin modificación.

```
upstreamConnectivityPointer-rsTTPSink CONSTRAINT RULE
OBJECT CLASS
    rsTTPSink AND SUBCLASSES;
IS RELATED TO
    rsCTPSink, rsCTPBidirectional;
USING ATTRIBUTE
    "Recommendation M.3100":upstreamConnectivityPointer;
CASE {
single ACCORDING TO RULE
    SET SIZE(1) OF CHOICE {
        rsCTPSink, rsCTPBidirectional }
};
;
```

```
downstreamConnectivityPointer-rsTTPSource CONSTRAINT RULE
OBJECT CLASS
    rsTTPSource AND SUBCLASSES;
IS RELATED TO
    rsCTPSource, rsCTPBidirectional;
USING ATTRIBUTE
    "Recommendation M.3100":downstreamConnectivityPointer;
CASE {
single ACCORDING TO RULE
    SET SIZE(1) OF CHOICE {
        rsCTPSource, rsCTPBidirectional }
};
;
```

Modificaciones que requieren nuevo registro

Esta cláusula proporciona las definiciones de reglas de constricciones sustitutivas para la actual Recomendación G.774 (1992). Las reglas de constricciones sustituidas en esta cláusula se consideran desaprobadas. Los motivos para la sustitución de una regla de restricción son los siguientes:

- 1) La regla de restricción sustituida está defectuosa y se debe corregir.
- 2) La regla de restricción sustituida se refiere a una clase de objeto gestionado que ha sido registrada de nuevo en la presente Recomendación.
- 3) La regla de restricción sustituida se refiere a un atributo que ha sido registrado de nuevo en la presente Recomendación.

En cada caso en que se sustituye una restricción, la nueva restricción se registrará en la presente Recomendación. La etiqueta textual para la restricción se modificará para incluir el texto "R1". Por ejemplo, en la modificación de la restricción G.774 (1992) "downstreamConnectivityPointer-au3CTPSink", la etiqueta modificada será "downstreamConnectivityPointer-au3CTPSinkR1". Obsérvese que "R1" se coloca inmediatamente después de la clase modificada que afecta a la restricción. Cuando la clase dentro de la etiqueta no ha cambiado pero la restricción ha sido alterada porque se refiere a una clase que ha cambiado, "R1" se coloca inmediatamente después del texto "downstreamConnectivityPointer" de la etiqueta de restricción modificada. Por ejemplo, en la modificación de la restricción G.774 (1992) "downstreamConnectivityPointer-au3CTPSource", la etiqueta modificada será "downstreamConnectivityPointerR1-au3CTPSource".

A continuación figura una tabla de las reglas de constricciones desaprobadas de la Recomendación G.774 (1992) y las reglas de restricción G.774 que las sustituyen:

Reglas de constricciones G.774 (1992) desaprobadas

downstreamConnectivityPointer-au3CTPSink
upstreamConnectivityPointer-au3CTPSource
downstreamConnectivityPointer-au4CTPSink
upstreamConnectivityPointer-au4CTPSource
downstreamConnectivityPointer-tu11CTPSink
upstreamConnectivityPointer-tu11CTPSource
downstreamConnectivityPointer-tu12CTPSink
upstreamConnectivityPointer-tu12CTPSource
downstreamConnectivityPointer-tu2CTPSink
upstreamConnectivityPointer-tu2CTPSource
downstreamConnectivityPointer-tu3CTPSink
upstreamConnectivityPointer-tu3CTPSource
upstreamConnectivityPointer-vc11TTPSink
downstreamConnectivityPointer-vc11TTPSource
upstreamConnectivityPointer-vc12TTPSink
downstreamConnectivityPointer-vc12TTPSource
upstreamConnectivityPointer-vc2TTPSink
downstreamConnectivityPointer-vc2TTPSource
upstreamConnectivityPointer-vc3TTPSink
downstreamConnectivityPointer-vc3TTPSource
upstreamConnectivityPointer-vc4TTPSink
downstreamConnectivityPointer-vc4TTPSource

Reglas de constricciones G.774 sustitutivas

downstreamConnectivityPointer-au3CTPSinkR1
upstreamConnectivityPointerR1-au3CTPSource
downstreamConnectivityPointer-au4CTPSinkR1
upstreamConnectivityPointerR1-au4CTPSource
downstreamConnectivityPointer-tu11CTPSinkR1
upstreamConnectivityPointerR1-tu11CTPSource
downstreamConnectivityPointer-tu12CTPSinkR1
upstreamConnectivityPointerR1-tu12CTPSource
downstreamConnectivityPointer-tu2CTPSinkR1
upstreamConnectivityPointerR1-tu2CTPSource
downstreamConnectivityPointer-tu3CTPSinkR1
upstreamConnectivityPointerR1-tu3CTPSource
upstreamConnectivityPointer-vc11TTPSinkR1
downstreamConnectivityPointerR1-vc11TTPSource
upstreamConnectivityPointer-vc12TTPSinkR1
downstreamConnectivityPointerR1-vc12TTPSource
upstreamConnectivityPointer-vc2TTPSinkR1
downstreamConnectivityPointerR1-vc2TTPSource
upstreamConnectivityPointer-vc3TTPSinkR1
downstreamConnectivityPointer-vc3TTPSourceR1
upstreamConnectivityPointer-vc4TTPSinkR1
downstreamConnectivityPointer-vc4TTPSourceR1

downstreamConnectivityPointer-au3CTPSinkR1 CONSTRAINT RULE
OBJECT CLASS
 au3CTPSinkR1 AND SUBCLASSES;
IS RELATED TO
 vc3TTPSinkR1, vc3TTPBidirectionalR1,
 "Recommendation G.774:1992":au3CTPSource, au3CTPBidirectionalR1,
 "Recommendation G.774:1992":tu3CTPSource, tu3CTPBidirectionalR1,

```

vc4TTPSinkR1, vc4TTPBidirectionalR1;
USING ATTRIBUTE
"Recommendation M.3100:1992":downstreamConnectivityPointer;
CASE {
single ACCORDING TO RULE
SET SIZE(1) OF CHOICE {
vc3TTPSinkR1,vc3TTPBidirectionalR1,
"Recommendation G.774:1992":au3CTPSource,
au3CTPBidirectionalR1,
"Recommendation G.774:1992":tu3CTPSource,
tu3CTPBidirectionalR1,
vc4TTPSinkR1,vc4TTPBidirectionalR1 },
broadcast ACCORDING TO RULE
SET SIZE(1) OF CHOICE {
SET SIZE(1..N) OF CHOICE {
vc3TTPSinkR1, vc3TTPBidirectionalR1,
"Recommendation G.774:1992":tu3CTPSource,
tu3CTPBidirectionalR1,
"Recommendation G.774:1992":au3CTPSource,
au3CTPBidirectionalR1 },
SET SIZE(1..N) OF CHOICE {
vc4TTPSinkR1, vc4TTPBidirectionalR1 }
}
};

```

```

upstreamConnectivityPointerR1-au3CTPSource CONSTRAINT RULE
OBJECT CLASS
"Recommendation G.774:1992":au3CTPSource AND SUBCLASSES;
IS RELATED TO
vc3TTPSourceR1, vc3TTPBidirectionalR1,
au3CTPSinkR1, au3CTPBidirectionalR1,
tu3CTPSinkR1, tu3CTPBidirectionalR1,
vc4TTPSourceR1, vc4TTPBidirectionalR1;
USING ATTRIBUTE
"Recommendation M.3100:1992":upstreamConnectivityPointer;
CASE {
single ACCORDING TO RULE
SET SIZE(1) OF CHOICE { vc3TTPSourceR1,vc3TTPBidirectionalR1,
au3CTPSinkR1,au3CTPBidirectionalR1,
tu3CTPSinkR1,tu3CTPBidirectionalR1,
vc4TTPSourceR1,vc4TTPBidirectionalR1 }
};

```

```

downstreamConnectivityPointer-au4CTPSinkR1 CONSTRAINT RULE
OBJECT CLASS
au4CTPSinkR1 AND SUBCLASSES;
IS RELATED TO
"Recommendation G.774:1992":au4CTPSource, au4CTPBidirectionalR1,
vc4TTPSinkR1, vc4TTPBidirectionalR1;
USING ATTRIBUTE
"Recommendation M.3100:1992":downstreamConnectivityPointer;
CASE {
single ACCORDING TO RULE
SET SIZE(1) OF CHOICE {
vc4TTPSinkR1,vc4TTPBidirectionalR1,
"Recommendation G.774:1992":au4CTPSource,
au4CTPBidirectionalR1 },
broadcast ACCORDING TO RULE

```

```

        SET SIZE(1..N) OF CHOICE {
            vc4TTPSinkR1, vc4TTPBidirectionalR1,
            "Recommendation G.774:1992":au4CTPSource,
            au4CTPBidirectionalR1 }
    };
;

upstreamConnectivityPointerR1-au4CTPSource CONSTRAINT RULE
    OBJECT CLASS
        "Recommendation G.774:1992":au4CTPSource AND SUBCLASSES;
    IS RELATED TO
        au4CTPSinkR1, au4CTPBidirectionalR1,
        vc4TTPSourceR1, vc4TTPBidirectionalR1;
    USING ATTRIBUTE
        "Recommendation M.3100:1992":upstreamConnectivityPointer;
    CASE {
        single ACCORDING TO RULE
            SET SIZE(1) OF CHOICE {
                vc4TTPSourceR1, vc4TTPBidirectionalR1,
                au4CTPSinkR1, au4CTPBidirectionalR1 }
    };
;

downstreamConnectivityPointer-tu11CTPSinkR1 CONSTRAINT RULE
    OBJECT CLASS
        tu11CTPSinkR1 AND SUBCLASSES;
    IS RELATED TO
        vc11TTPSinkR1, vc11TTPBidirectionalR1,
        "Recommendation G.774:1992":tu11CTPSource, tu11CTPBidirectionalR1;
    USING ATTRIBUTE
        "Recommendation M.3100:1992":downstreamConnectivityPointer;
    CASE {
        single ACCORDING TO RULE
            SET SIZE(1) OF CHOICE {
                vc11TTPSinkR1, vc11TTPBidirectionalR1,
                "Recommendation G.774:1992":tu11CTPSource,
                tu11CTPBidirectionalR1 },
        broadcast ACCORDING TO RULE
            SET SIZE(1..N) OF CHOICE {
                vc11TTPSinkR1, vc11TTPBidirectionalR1,
                "Recommendation G.774:1992":tu11CTPSource,
                tu11CTPBidirectionalR1 }
    };
;

upstreamConnectivityPointerR1-tu11CTPSource CONSTRAINT RULE
    OBJECT CLASS
        "Recommendation G.774:1992":tu11CTPSource AND SUBCLASSES;
    IS RELATED TO
        "Recommendation G.774:1992":vc11TTPSource, vc11TTPBidirectionalR1,
        tu11CTPSinkR1, tu11CTPBidirectionalR1;
    USING ATTRIBUTE
        "Recommendation M.3100:1992":upstreamConnectivityPointer;
    CASE {
        single ACCORDING TO RULE
            SET SIZE(1) OF CHOICE {
                "Recommendation G.774:1992":vc11TTPSource,
                vc11TTPBidirectionalR1,
                tu11CTPSinkR1, tu11CTPBidirectionalR1 }
    };
;

```

```

downstreamConnectivityPointer-tu12CTPSinkR1 CONSTRAINT RULE
  OBJECT CLASS
    tu12CTPSinkR1 AND SUBCLASSES;
  IS RELATED TO
    vc12TTPSinkR1, vc12TTPBidirectionalR1,
    "Recommendation G.774:1992":tu12CTPSource, tu12CTPBidirectionalR1;
  USING ATTRIBUTE
    "Recommendation M.3100:1992":downstreamConnectivityPointer;
  CASE {
    single ACCORDING TO RULE
      SET SIZE(1) OF CHOICE {
        vc12TTPSinkR1, vc12TTPBidirectionalR1,
        "Recommendation G.774:1992":tu12CTPSource,
        tu12CTPBidirectionalR1 },
    broadcast ACCORDING TO RULE
      SET SIZE(1..N) OF CHOICE {
        vc12TTPSinkR1, vc12TTPBidirectionalR1,
        "Recommendation G.774:1992":tu12CTPSource,
        tu12CTPBidirectionalR1 }
  };
;

```

```

upstreamConnectivityPointerR1-tu12CTPSource CONSTRAINT RULE
  OBJECT CLASS
    "Recommendation G.774:1992":tu12CTPSource AND SUBCLASSES;
  IS RELATED TO
    "Recommendation G.774:1992":vc12TTPSource, vc12TTPBidirectionalR1,
    tu12CTPSinkR1, tu12CTPBidirectionalR1;
  USING ATTRIBUTE
    "Recommendation M.3100:1992":upstreamConnectivityPointer;
  CASE {
    single ACCORDING TO RULE
      SET SIZE(1) OF CHOICE {
        "Recommendation G.774:1992":vc12TTPSource,
        vc12TTPBidirectionalR1,
        tu12CTPSinkR1, tu12CTPBidirectionalR1 }
  };
;

```

```

downstreamConnectivityPointer-tu2CTPSinkR1 CONSTRAINT RULE
  OBJECT CLASS
    tu2CTPSinkR1 AND SUBCLASSES;
  IS RELATED TO
    vc2TTPSinkR1, vc2TTPBidirectionalR1,
    "Recommendation G.774:1992":tu2CTPSource, tu2CTPBidirectionalR1;
  USING ATTRIBUTE
    "Recommendation M.3100:1992":downstreamConnectivityPointer;
  CASE {
    single ACCORDING TO RULE
      SET SIZE(1) OF CHOICE {
        vc2TTPSinkR1, vc2TTPBidirectionalR1,
        "Recommendation G.774:1992":tu2CTPSource,
        tu2CTPBidirectionalR1 },
    broadcast ACCORDING TO RULE
      SET SIZE(1..N) OF CHOICE {
        vc2TTPSinkR1, vc2TTPBidirectionalR1,
        "Recommendation G.774:1992":tu2CTPSource,
        tu2CTPBidirectionalR1 }
  };
;

```

```

upstreamConnectivityPointerR1-tu2CTPSource CONSTRAINT RULE
  OBJECT CLASS
    "Recommendation G.774:1992":tu2CTPSource AND SUBCLASSES;
  IS RELATED TO
    "Recommendation G.774:1992":vc2TTPSource, vc2TTPBidirectionalR1,
    tu2CTPSinkR1, tu2CTPBidirectionalR1;
  USING ATTRIBUTE
    "Recommendation M.3100:1992":upstreamConnectivityPointer;
  CASE {
    single ACCORDING TO RULE
      SET SIZE(1) OF CHOICE {
        "Recommendation G.774:1992":vc2TTPSource,
        vc2TTPBidirectionalR1,
        tu2CTPSinkR1, tu2CTPBidirectionalR1 }
  };
;

```

```

downstreamConnectivityPointer-tu3CTPSinkR1 CONSTRAINT RULE
  OBJECT CLASS
    tu3CTPSinkR1 AND SUBCLASSES;
  IS RELATED TO
    vc3TTPSinkR1, vc3TTPBidirectionalR1,
    "Recommendation G.774:1992":au3CTPSource, au3CTPBidirectionalR1,
    "Recommendation G.774:1992":tu3CTPSource, tu3CTPBidirectionalR1;
  USING ATTRIBUTE
    "Recommendation M.3100:1992":downstreamConnectivityPointer;
  CASE {
    single ACCORDING TO RULE
      SET SIZE(1) OF CHOICE {
        vc3TTPSinkR1, vc3TTPBidirectionalR1,
        "Recommendation G.774:1992":au3CTPSource,
        au3CTPBidirectionalR1,
        "Recommendation G.774:1992":tu3CTPSource,
        tu3CTPBidirectionalR1 },
    broadcast ACCORDING TO RULE
      SET SIZE(1..N) OF CHOICE {
        vc3TTPSinkR1, vc3TTPBidirectionalR1,
        "Recommendation G.774:1992":au3CTPSource,
        au3CTPBidirectionalR1,
        "Recommendation G.774:1992":tu3CTPSource,
        tu3CTPBidirectionalR1 }
  };
;

```

```

upstreamConnectivityPointerR1-tu3CTPSource CONSTRAINT RULE
  OBJECT CLASS
    "Recommendation G.774:1992":tu3CTPSource AND SUBCLASSES;
  IS RELATED TO
    vc3TTPSourceR1, vc3TTPBidirectionalR1,
    au3CTPSinkR1, au3CTPBidirectionalR1,
    tu3CTPSinkR1, tu3CTPBidirectionalR1;
  USING ATTRIBUTE
    "Recommendation M.3100:1992":upstreamConnectivityPointer;
  CASE {
    single ACCORDING TO RULE
      SET SIZE(1) OF CHOICE {
        vc3TTPSourceR1, vc3TTPBidirectionalR1,
        au3CTPSinkR1, au3CTPBidirectionalR1,

```

```

        tu3CTPSinkR1, tu3CTPBidirectionalR1 }
};
;
upstreamConnectivityPointer-vc11TTPSinkR1 CONSTRAINT RULE
OBJECT CLASS
    vc11TTPSinkR1 AND SUBCLASSES;
IS RELATED TO
    "Recommendation G.774:1992":vc11TTPSource, vc11TTPBidirectionalR1,
    tu11CTPSinkR1, tu11CTPBidirectionalR1;
USING ATTRIBUTE
    "Recommendation M.3100:1992":upstreamConnectivityPointer;
CASE {
    single ACCORDING TO RULE
        SET SIZE(1) OF CHOICE {
            "Recommendation G.774:1992":vc11TTPSource,
            vc11TTPBidirectionalR1,
            tu11CTPSinkR1, tu11CTPBidirectionalR1 }
};
;

```

```

downstreamConnectivityPointerR1-vc11TTPSource CONSTRAINT RULE
OBJECT CLASS
    "Recommendation G.774:1992":vc11TTPSource AND SUBCLASSES;
IS RELATED TO
    vc11TTPSinkR1, vc11TTPBidirectionalR1,
    "Recommendation G.774:1992":tu11CTPSource, tu11CTPBidirectionalR1;
USING ATTRIBUTE
    "Recommendation M.3100:1992":downstreamConnectivityPointer;
CASE {
    single ACCORDING TO RULE
        SET SIZE(1) OF CHOICE {
            vc11TTPSinkR1, vc11TTPBidirectionalR1,
            "Recommendation G.774:1992":tu11CTPSource,
            tu11CTPBidirectionalR1 },
    broadcast ACCORDING TO RULE
        SET SIZE(1..N) OF CHOICE {
            vc11TTPSinkR1, vc11TTPBidirectionalR1,
            "Recommendation G.774:1992":tu11CTPSource,
            tu11CTPBidirectionalR1 }
};
;

```

```

upstreamConnectivityPointer-vc12TTPSinkR1 CONSTRAINT RULE
OBJECT CLASS
    vc12TTPSinkR1 AND SUBCLASSES;
IS RELATED TO
    "Recommendation G.774:1992":vc12TTPSource, vc12TTPBidirectionalR1,
    tu12CTPSinkR1, tu12CTPBidirectionalR1;
USING ATTRIBUTE
    "Recommendation M.3100:1992":upstreamConnectivityPointer;
CASE {
    single ACCORDING TO RULE
        SET SIZE(1) OF CHOICE {
            "Recommendation G.774:1992":vc12TTPSource,
            vc12TTPBidirectionalR1,
            tu12CTPSinkR1, tu12CTPBidirectionalR1 }
};
;

```

```

downstreamConnectivityPointerR1-vc12TTPSource CONSTRAINT RULE
  OBJECT CLASS
    "Recommendation G.774:1992":vc12TTPSource AND SUBCLASSES;
  IS RELATED TO
    vc12TTPSinkR1, vc12TTPBidirectionalR1,
    "Recommendation G.774:1992":tu12CTPSource, tu12CTPBidirectionalR1;
  USING ATTRIBUTE
    "Recommendation M.3100:1992":downstreamConnectivityPointer;
  CASE {
    single ACCORDING TO RULE
      SET SIZE(1) OF CHOICE {
        vc12TTPSinkR1, vc12TTPBidirectionalR1,
        "Recommendation G.774:1992":tu12CTPSource,
        tu12CTPBidirectionalR1 },
    broadcast ACCORDING TO RULE
      SET SIZE(1..N) OF CHOICE {
        vc12TTPSinkR1, vc12TTPBidirectionalR1,
        "Recommendation G.774:1992":tu12CTPSource,
        tu12CTPBidirectionalR1 }
  };
;

```

```

upstreamConnectivityPointer-c2TTPSinkR1 CONSTRAINT RULE
  OBJECT CLASS
    vc2TTPSinkR1 AND SUBCLASSES;
  IS RELATED TO
    "Recommendation G.774:1992":vc2TTPSource, vc2TTPBidirectionalR1,
    tu2CTPSinkR1, tu2CTPBidirectionalR1;
  USING ATTRIBUTE
    "Recommendation M.3100:1992":upstreamConnectivityPointer;
  CASE {
    single ACCORDING TO RULE
      SET SIZE(1) OF CHOICE {
        "Recommendation G.774:1992":vc2TTPSource,
        vc2TTPBidirectionalR1,
        tu2CTPSinkR1, tu2CTPBidirectionalR1 }
  };
;

```

```

downstreamConnectivityPointerR1-vc2TTPSource CONSTRAINT RULE
  OBJECT CLASS
    "Recommendation G.774:1992":vc2TTPSource AND SUBCLASSES;
  IS RELATED TO
    vc2TTPSinkR1, vc2TTPBidirectionalR1,
    "Recommendation G.774:1992":tu2CTPSource, tu2CTPBidirectionalR1;
  USING ATTRIBUTE
    "Recommendation M.3100:1992":downstreamConnectivityPointer;
  CASE {
    single ACCORDING TO RULE
      SET SIZE(1) OF CHOICE {
        vc2TTPSinkR1, vc2TTPBidirectionalR1,
        "Recommendation G.774:1992":tu2CTPSource,
        tu2CTPBidirectionalR1 },
    broadcast ACCORDING TO RULE
      SET SIZE(1..N) OF CHOICE {
        vc2TTPSinkR1, vc2TTPBidirectionalR1,
        "Recommendation G.774:1992":tu2CTPSource,
        tu2CTPBidirectionalR1 }
  };
;

```

```

upstreamConnectivityPointer-vc3TTPSinkR1 CONSTRAINT RULE
  OBJECT CLASS
    vc3TTPSinkR1 AND SUBCLASSES;
  IS RELATED TO
    vc3TTPSourceR1, vc3TTPBidirectionalR1,
    au3CTPSinkR1, au3CTPBidirectionalR1,
    tu3CTPSinkR1, tu3CTPBidirectionalR1;
  USING ATTRIBUTE
    "Recommendation M.3100:1992":upstreamConnectivityPointer;
  CASE {
    single ACCORDING TO RULE
      SET SIZE(1) OF CHOICE {
        vc3TTPSourceR1, vc3TTPBidirectionalR1,
        au3CTPSinkR1, au3CTPBidirectionalR1,
        tu3CTPSinkR1, tu3CTPBidirectionalR1 }
  };
;

```

```

downstreamConnectivityPointer-vc3TTPSourceR1 CONSTRAINT RULE
  OBJECT CLASS
    vc3TTPSourceR1 AND SUBCLASSES;
  IS RELATED TO
    vc3TTPSinkR1, vc3TTPBidirectionalR1,
    "Recommendation G.774:1992":au3CTPSource, au3CTPBidirectionalR1,
    "Recommendation G.774:1992":tu3CTPSource, tu3CTPBidirectionalR1;
  USING ATTRIBUTE
    "Recommendation M.3100:1992":downstreamConnectivityPointer;
  CASE {
    single ACCORDING TO RULE
      SET SIZE(1) OF CHOICE {
        vc3TTPSinkR1, vc3TTPBidirectionalR1,
        "Recommendation G.774:1992":au3CTPSource,
        au3CTPBidirectionalR1,
        "Recommendation G.774:1992":tu3CTPSource,
        tu3CTPBidirectionalR1 },
    broadcast ACCORDING TO RULE
      SET SIZE(1..N) OF CHOICE {
        vc3TTPSinkR1, vc3TTPBidirectionalR1,
        "Recommendation G.774:1992":au3CTPSource,
        au3CTPBidirectionalR1,
        "Recommendation G.774:1992":tu3CTPSource,
        tu3CTPBidirectionalR1 }
  };
;

```

```

upstreamConnectivityPointer-vc4TTPSinkR1 CONSTRAINT RULE
  OBJECT CLASS
    vc4TTPSinkR1 AND SUBCLASSES;
  IS RELATED TO
    vc4TTPSourceR1, vc4TTPBidirectionalR1,
    au4CTPSinkR1, au4CTPBidirectionalR1,
    au3CTPSinkR1, au3CTPBidirectionalR1;
  USING ATTRIBUTE
    "Recommendation M.3100:1992":upstreamConnectivityPointer;
  CASE {
    single ACCORDING TO RULE
      SET SIZE(1) OF CHOICE {
        vc4TTPSourceR1, vc4TTPBidirectionalR1,
        au4CTPSinkR1, au4CTPBidirectionalR1 },
    concatenated ACCORDING TO RULE

```

```

        SET SIZE(1) OF CHOICE {
            SEQUENCE SIZE(3) OF au3CTPSinkR1,
            SEQUENCE SIZE(3) OF au3CTPBidirectionalR1 }
    };
;

downstreamConnectivityPointer-vc4TTPSourceR1 CONSTRAINT RULE
    OBJECT CLASS
        vc4TTPSourceR1 AND SUBCLASSES;
    IS RELATED TO
        vc4TTPSinkR1, vc4TTPBidirectionalR1,
        "Recommendation G.774:1992":au4CTPSource, au4CTPBidirectionalR1,
        "Recommendation G.774:1992":au3CTPSource, au3CTPBidirectionalR1;
    USING ATTRIBUTE
        "Recommendation M.3100:1992":downstreamConnectivityPointer;
    CASE {
        single ACCORDING TO RULE
            SET SIZE(1) OF CHOICE {
                vc4TTPSinkR1, vc4TTPBidirectionalR1,
                "Recommendation G.774:1992":au4CTPSource,
                au4CTPBidirectionalR1 },
        broadcast ACCORDING TO RULE
            SET SIZE(1..N) OF CHOICE {
                vc4TTPSinkR1, vc4TTPBidirectionalR1,
                "Recommendation G.774:1992":au4CTPSource,
                au4CTPBidirectionalR1 },
        concatenated ACCORDING TO RULE
            SET SIZE(1) OF CHOICE {
                SEQUENCE SIZE(3) OF
                    "Recommendation G.774:1992":au3CTPSource,
                SEQUENCE SIZE(3) OF au3CTPBidirectionalR1 },
        broadcastConcatenated ACCORDING TO RULE
            SET SIZE(1..N) OF CHOICE {
                SEQUENCE SIZE(3) OF
                    "Recommendation G.774:1992":au3CTPSource,
                SEQUENCE SIZE(3) OF au3CTPBidirectionalR1 }
    };
;

```

8.3 Constricciones de denominación

Modificaciones que no requieren nuevo registro

El siguiente texto sustituye al texto de 8.3/G.774 (1992) asociado con las siguientes reglas de subordinación solamente. Para mayor claridad, todas las adiciones se indican en **negritas**.

tug3BidirectionalSubordination

Todas las reglas de subordinación definidas en la Recomendación G.774 (1992) que no se mencionan aquí se mantienen sin modificación.

```

tug3BidirectionalSubordination SUBORDINATION RULE
    SUPERIOR OBJECT CLASS
        tug3Bidirectional;
    NAMES SUBORDINATES
        tug2sink, tug2Source, tug2Bidirectional,
        tu3CTPSink, tu3CTPSource, tu3CTPBidirectional;
    ACCORDING TO RULE

```

```

CHOICE {
    SET SIZE(1) OF CHOICE {
        tu2CTPSink, tuCTPSource, tu3CTPBidirectional }
    SET SIZE(7) OF CHOICE {
        tug2Sink, tug2Source, tug2Bidirectional }
};

```

Modificaciones que requieren nuevo registro

Esta cláusula proporciona las definiciones de reglas de subordinación sustitutivas para la actual Recomendación G.774 (1992). Todas las reglas de subordinación sustituidas en esta cláusula se consideran desaprobadas. Los motivos para la sustitución de una regla de subordinación son los siguientes:

- 1) La regla de subordinación sustituida está defectuosa y se debe corregir.
- 2) La regla de subordinación sustituida se refiere a una clase de objeto gestionado que ha sido registrada de nuevo en la presente Recomendación.

Cuando una regla de subordinación es sustituida, la nueva regla de subordinación se registrará en la presente Recomendación. La etiqueta textual para la regla de subordinación se modificará para incluir el texto "R1". Por ejemplo, en la modificación de la regla de subordinación G.774 (1992) "vc3TTPSinkSubordination", la etiqueta modificada será "vc3TTPSinkR1Subordination". Obsérvese que "R1" se coloca inmediatamente después de la clase modificada que afecta a la regla de subordinación. Cuando la clase dentro de la etiqueta no ha cambiado pero la regla de subordinación ha sido alterada porque la regla de subordinación se refiere a una clase que ha cambiado, "R1" se coloca al final de la etiqueta de la regla de subordinación modificada. Por ejemplo, en la modificación de la regla de subordinación G.774 (1992) "tug3BidirectionalSubordination", la etiqueta modificada será "tug3BidirectionalSubordinationR1".

A continuación figura una tabla de reglas de subordinación desaprobadas de la Recomendación G.774 (1992) y las reglas de subordinación G.774 que las sustituyen.

Reglas de subordinación G.774 (1992) desaprobadas

```

augSinkSubordination
augBidirectionalSubordination
sdhNESubordination
tug2SinkSubordination
tug2BidirectionalSubordination
tug3SinkSubordination
tug3BidirectionalSubordination
vc3TTPSinkSubordination
vc3TTPSourceSubordination
vc3TTPBidirectionalSubordination
vc4TTPSinkSubordination
vc4TTPSourceSubordination
vc4TTPBidirectionalSubordination

```

Reglas de subordinación G.774 sustitutivas

```

augSinkSubordinationR1
augBidirectionalSubordinationR1
sdhNESubordinationR1
tug2SinkSubordinationR1
tug2BidirectionalSubordinationR1
tug3SinkSubordinationR1
tug3BidirectionalSubordinationR1
vc3TTPSinkR1Subordination

```

vc3TTPSourceSubordinationR1
vc3TTPBidirectionalR1Subordination
vc4TTPSinkR1Subordination
vc4TTPSourceR1Subordination
vc4TTPBidirectionalR1Subordination

augSinkSubordinationR1 SUBORDINATION RULE
SUPERIOR OBJECT CLASS
"Recommendation G.774:1992":augSink;
NAMES SUBORDINATES
au3CTPSinkR1,
au4CTPSinkR1;
ACCORDING TO RULE
CHOICE {
SET SIZE(1) OF au4CTPSinkR1,
SET SIZE(3) OF au3CTPSinkR1
};
;

augBidirectionalSubordinationR1 SUBORDINATION RULE
SUPERIOR OBJECT CLASS
"Recommendation G.774:1992":augBidirectional;
NAMES SUBORDINATES
au3CTPSinkR1, "Recommendation G.774:1992":au3CTPSource,
au3CTPBidirectionalR1,
au4CTPSinkR1, "Recommendation G.774:1992":au4CTPSource,
au4CTPBidirectionalR1;
ACCORDING TO RULE
CHOICE {
SET SIZE(1) OF CHOICE {
au4CTPSinkR1, "Recommendation G.774:1992":au4CTPSource,
au4CTPBidirectionalR1 },
SET SIZE(3) OF CHOICE {
au3CTPSinkR1, "Recommendation G.774:1992":au3CTPSource,
au3CTPBidirectionalR1 }
};
;

sdhNESubordinationR1 SUBORDINATION RULE
SUPERIOR OBJECT CLASS
sdhNE;
NAMES SUBORDINATES
"Recommendation G.774:1992":electricalSPITTPSink,
"Recommendation G.774:1992":electricalSPITTPSource,
"Recommendation G.774:1992":electricalSPITTPBidirectional,
"Recommendation G.774:1992":msTTPSink,
"Recommendation G.774:1992":msTTPSource,
"Recommendation G.774:1992":msTTPBidirectional,
"Recommendation G.774:1992":opticalSPITTPSink,
"Recommendation G.774:1992":opticalSPITTPSource,
"Recommendation G.774:1992":opticalSPITTPBidirectional,
"Recommendation G.774:1992":rsTTPSink,
"Recommendation G.774:1992":rsTTPSource,
"Recommendation G.774:1992":rsTTPBidirectional,
vc11TTPSinkR1,
"Recommendation G.774:1992":vc11TTPSource,
vc11TTPBidirectionalR1,
vc12TTPSinkR1,
"Recommendation G.774:1992":vc12TTPSource,
vc12TTPBidirectionalR1,
vc2TTPSinkR1,

```

"Recommendation G.774:1992":vc2TTPSource,
vc2TTPBidirectionalR1,
vc3TTPSinkR1, vc3TTPSourceR1, vc3TTPBidirectionalR1,
vc4TTPSinkR1, vc4TTPSourceR1, vc4TTPBidirectionalR1;
ACCORDING TO RULE
SET {
    SET SIZE(0..N) OF
    "Recommendation G.774:1992":electricalSPITTPSink,
    SET SIZE(0..N) OF
    "Recommendation G.774:1992":electricalSPITTPSource,
    SET SIZE(0..N) OF
    "Recommendation G.774:1992":electricalSPITTPBidirectional,
    SET SIZE(0..N) OF "Recommendation G.774:1992":msTTPSink,
    SET SIZE(0..N) OF "Recommendation G.774:1992":msTTPSource,
    SET SIZE(0..N) OF
    "Recommendation G.774:1992":msTTPBidirectional,
    SET SIZE(0..N) OF
    "Recommendation G.774:1992":opticalSPITTPSink,
    SET SIZE(0..N) OF
    "Recommendation G.774:1992":opticalSPITTPSource,
    SET SIZE(0..N) OF
    "Recommendation G.774:1992":opticalSPITTPBidirectional,
    SET SIZE(0..N) OF "Recommendation G.774:1992":rsTTPSink,
    SET SIZE(0..N) OF "Recommendation G.774:1992":rsTTPSource,
    SET SIZE(0..N) OF "Recommendation G.774:1992":rsTTPBidirectional,
    SET SIZE(0..N) OF vc11TTPSinkR1,
    SET SIZE(0..N) OF "Recommendation G.774:1992":vc11TTPSource,
    SET SIZE(0..N) OF vc11TTPBidirectionalR1,
    SET SIZE(0..N) OF vc12TTPSinkR1,
    SET SIZE(0..N) OF "Recommendation G.774:1992":vc12TTPSource,
    SET SIZE(0..N) OF vc12TTPBidirectionalR1,
    SET SIZE(0..N) OF vc2TTPSinkR1,
    SET SIZE(0..N) OF "Recommendation G.774:1992":vc2TTPSource,
    SET SIZE(0..N) OF vc2TTPBidirectionalR1,
    SET SIZE(0..N) OF vc3TTPSinkR1,
    SET SIZE(0..N) OF vc3TTPSourceR1,
    SET SIZE(0..N) OF vc3TTPBidirectionalR1,
    SET SIZE(0..N) OF vc4TTPSinkR1,
    SET SIZE(0..N) OF vc4TTPSourceR1,
    SET SIZE(0..N) OF vc4TTPBidirectionalR1
};

```

```

tug2SinkSubordinationR1 SUBORDINATION RULE
SUPERIOR OBJECT CLASS
"Recommendation G.774:1992":tug2Sink;
NAMES SUBORDINATES
tu11CTPSinkR1,
tu12CTPSinkR1,
tu2CTPSinkR1;
ACCORDING TO RULE
CHOICE {
    SET SIZE(1) OF tu2CTPSinkR1,
    SET SIZE(3) OF tu12CTPSinkR1,
    SET SIZE(4) OF tu11CTPSinkR1
};

```

```

tug2BidirectionalSubordinationR1 SUBORDINATION RULE
SUPERIOR OBJECT CLASS
  "Recommendation G.774:1992":tug2Bidirectional;
NAMES SUBORDINATES
  tu11CTPSinkR1,
  "Recommendation G.774:1992":tu11CTPSource,
  tu11CTPBidirectionalR1,
  tu12CTPSinkR1,
  "Recommendation G.774:1992":tu12CTPSource,
  tu12CTPBidirectionalR1,
  tu2CTPSinkR1,
  "Recommendation G.774:1992":tu2CTPSource,
  tu2CTPBidirectionalR1;
ACCORDING TO RULE
CHOICE {
  SET SIZE(1) OF CHOICE {
    tu2CTPSinkR1,
    "Recommendation G.774:1992":tu2CTPSource,
    tu2CTPBidirectionalR1 },
  SET SIZE(3) OF CHOICE {
    tu12CTPSinkR1,
    "Recommendation G.774:1992":tu12CTPSource,
    tu12CTPBidirectionalR1 },
  SET SIZE(4) OF CHOICE {
    tu11CTPSinkR1,
    "Recommendation G.774:1992":tu11CTPSource,
    tu11CTPBidirectionalR1 }
};

```

```

tug3SinkSubordinationR1 SUBORDINATION RULE
SUPERIOR OBJECT CLASS
  "Recommendation G.774:1992":tug3Sink;
NAMES SUBORDINATES
  "Recommendation G.774:1992":tug2Sink,
  tu3CTPSinkR1;
ACCORDING TO RULE
CHOICE {
  SET SIZE(1) OF tu3CTPSinkR1,
  SET SIZE(7) OF "Recommendation G.774:1992":tug2Sink
};

```

```

tug3BidirectionalSubordinationR1 SUBORDINATION RULE
SUPERIOR OBJECT CLASS
  "Recommendation G.774:1992":tug3Bidirectional;
NAMES SUBORDINATES
  "Recommendation G.774:1992":tug2Sink,
  "Recommendation G.774:1992":tug2Source,
  "Recommendation G.774:1992":tug2Bidirectional,
  tu3CTPSinkR1,
  "Recommendation G.774:1992":tu3CTPSource,
  tu3CTPBidirectionalR1;
ACCORDING TO RULE
CHOICE {
  SET SIZE(1) OF CHOICE {
    tu3CTPSinkR1,
    "Recommendation G.774:1992":tu3CTPSource,
    tu3CTPBidirectionalR1 }
  SET SIZE(7) OF CHOICE {
    "Recommendation G.774:1992":tug2Sink,

```

```

                "Recommendation G.774:1992":tug2Source,
                "Recommendation G.774:1992":tug2Bidirectional }
        };
;

vc3TTPSinkR1Subordination SUBORDINATION RULE
    SUPERIOR OBJECT CLASS
        vc3TTPSink;
    NAMES SUBORDINATES
        tug2Sink,
        vcnUserChannelCTPSink;
    ACCORDING TO RULE
        SET {
            SET SIZE(7) OF tug2Sink,
            SET SIZE(1) OF vcnUserChannelCTPSink
        };
;

vc3TTPSourceSubordinationR1 SUBORDINATION RULE
    SUPERIOR OBJECT CLASS
        vc3TTPSourceR1;
    NAMES SUBORDINATES
        "Recommendation G.774:1992":tug2Source,
        "Recommendation G.774:1992":vcnUserChannelCTPSource;
    ACCORDING TO RULE
        SET {
            SET SIZE(7) OF "Recommendation G.774:1992":tug2Source,
            SET SIZE(1) OF "Recommendation G.774:1992":vcnUserChannelCTPSource
        };
;

vc3TTPBidirectionalR1Subordination SUBORDINATION RULE
    SUPERIOR OBJECT CLASS
        vc3TTPBidirectionalR1;
    NAMES SUBORDINATES
        "Recommendation G.774:1992":tug2Bidirectional,
        "Recommendation G.774:1992":vcnUserChannelCTPSink,
        "Recommendation G.774:1992":vcnUserChannelCTPSource,
        "Recommendation G.774:1992":vcnUserChannelCTPBidirectional;
    ACCORDING TO RULE
        SET {
            SET SIZE(7) OF "Recommendation G.774:1992":tug2Bidirectional,
            SET SIZE(1) OF CHOICE {
                "Recommendation G.774:1992":vcnUserChannelCTPSink,
                "Recommendation G.774:1992":vcnUserChannelCTPSource,
                "Recommendation G.774:1992":vcnUserChannelCTPBidirectional }
        };
;

vc4TTPSinkR1Subordination SUBORDINATION RULE
    SUPERIOR OBJECT CLASS
        vc4TTPSinkR1;
    NAMES SUBORDINATES
        "Recommendation G.774:1992":tug3Sink,
        "Recommendation G.774:1992":vcnUserChannelCTPSink;
    ACCORDING TO RULE
        SET {
            SET SIZE(3) OF "Recommendation G.774:1992":tug3Sink,
            SET SIZE(1) OF "Recommendation G.774:1992":vcnUserChannelCTPSink
        };
;

```

```

vc4TTPSourceR1Subordination SUBORDINATION RULE
  SUPERIOR OBJECT CLASS
    vc4TTPSourceR1;
  NAMES SUBORDINATES
    "Recommendation G.774:1992":tug3Source,
    "Recommendation G.774:1992":vcnUserChannelCTPSource;
  ACCORDING TO RULE
    SET {
      SET SIZE(3) OF "Recommendation G.774:1992":tug3Source,
      SET SIZE(1) OF "Recommendation G.774:1992":vcnUserChannelCTPSource
    };
;

```

```

vc4TTPBidirectionalR1Subordination SUBORDINATION RULE
  SUPERIOR OBJECT CLASS
    vc4TTPBidirectionalR1;
  NAMES SUBORDINATES
    "Recommendation G.774:1992":tug3Bidirectional,
    "Recommendation G.774:1992":vcnUserChannelCTPSink,
    "Recommendation G.774:1992":vcnUserChannelCTPSource,
    "Recommendation G.774:1992":vcnUserChannelCTPBidirectional;
  ACCORDING TO RULE
    SET {
      SET SIZE(3) OF "Recommendation G.774:1992":tug3Bidirectional,
      SET SIZE(1) OF CHOICE {
        "Recommendation G.774:1992":vcnUserChannelCTPSink,
        "Recommendation G.774:1992":vcnUserChannelCTPSource,
        "Recommendation G.774:1992":vcnUserChannelCTPBidirectional }
    };
;

```

APÉNDICE A

Diagramas de relación de entidades

No se requieren modificaciones.

APÉNDICE B

Lista por orden alfabético de las abreviaturas contenidas en esta Recomendación

Referencias

No se requieren modificaciones.

SERIES DE RECOMENDACIONES DEL UIT-T

Serie A	Organización del trabajo del UIT-T
Serie B	Medios de expresión: definiciones, símbolos, clasificación
Serie C	Estadísticas generales de telecomunicaciones
Serie D	Principios generales de tarificación
Serie E	Explotación general de la red, servicio telefónico, explotación del servicio y factores humanos
Serie F	Servicios de telecomunicación no telefónicos
Serie G	Sistemas y medios de transmisión, sistemas y redes digitales
Serie H	Sistemas audiovisuales y multimedios
Serie I	Red digital de servicios integrados
Serie J	Transmisiones de señales radiofónicas, de televisión y de otras señales multimedios
Serie K	Protección contra las interferencias
Serie L	Construcción, instalación y protección de los cables y otros elementos de planta exterior
Serie M	Mantenimiento: sistemas de transmisión, circuitos telefónicos, telegrafía, facsímil y circuitos arrendados internacionales
Serie N	Mantenimiento: circuitos internacionales para transmisiones radiofónicas y de televisión
Serie O	Especificaciones de los aparatos de medida
Serie P	Calidad de transmisión telefónica, instalaciones telefónicas y redes locales
Serie Q	Conmutación y señalización
Serie R	Transmisión telegráfica
Serie S	Equipos terminales para servicios de telegrafía
Serie T	Terminales para servicios de telemática
Serie U	Conmutación telegráfica
Serie V	Comunicación de datos por la red telefónica
Serie X	Redes de datos y comunicación entre sistemas abiertos
Serie Z	Lenguajes de programación