



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

G.774.02

Corrigendum 1

(11/96)

SERIES G: TRANSMISSION SYSTEMS AND MEDIA,
DIGITAL SYSTEMS AND NETWORKS

Digital transmission systems – Terminal equipments –
Operations, administration and maintenance features of
transmission equipment

Synchronous Digital Hierarchy (SDH) configuration
of the payload structure for the network element
view

Corrigendum 1

ITU-T Recommendation G.774.02 – Corrigendum 1

(Previously CCITT Recommendation)

ITU-T G-SERIES RECOMMENDATIONS

TRANSMISSION SYSTEMS AND MEDIA, DIGITAL SYSTEMS AND NETWORKS

INTERNATIONAL TELEPHONE CONNECTIONS AND CIRCUITS	G.100–G.199
INTERNATIONAL ANALOGUE CARRIER SYSTEM	
GENERAL CHARACTERISTICS COMMON TO ALL ANALOGUE CARRIER-TRANSMISSION SYSTEMS	G.200–G.299
INDIVIDUAL CHARACTERISTICS OF INTERNATIONAL CARRIER TELEPHONE SYSTEMS ON METALLIC LINES	G.300–G.399
GENERAL CHARACTERISTICS OF INTERNATIONAL CARRIER TELEPHONE SYSTEMS ON RADIO-RELAY OR SATELLITE LINKS AND INTERCONNECTION WITH METALLIC LINES	G.400–G.449
COORDINATION OF RADIOTELEPHONY AND LINE TELEPHONY	G.450–G.499
TRANSMISSION MEDIA CHARACTERISTICS	G.600–G.699
DIGITAL TRANSMISSION SYSTEMS	
TERMINAL EQUIPMENTS	G.700–G.799
General	G.700–G.709
Coding of analogue signals by pulse code modulation	G.710–G.719
Coding of analogue signals by methods other than PCM	G.720–G.729
Principal characteristics of primary multiplex equipment	G.730–G.739
Principal characteristics of second order multiplex equipment	G.740–G.749
Principal characteristics of higher order multiplex equipment	G.750–G.759
Principal characteristics of transcoder and digital multiplication equipment	G.760–G.769
Operations, administration and maintenance features of transmission equipment	G.770–G.779
Principal characteristics of multiplexing equipment for the synchronous digital hierarchy	G.780–G.789
Other terminal equipment	G.790–G.799
DIGITAL NETWORKS	G.800–G.899
General aspects	G.800–G.809
Design objectives for digital networks	G.810–G.819
Quality and availability targets	G.820–G.829
Network capabilities and functions	G.830–G.839
SDH network characteristics	G.840–G.899
DIGITAL SECTIONS AND DIGITAL LINE SYSTEM	G.900–G.999
General	G.900–G.909
Parameters for optical fibre cable systems	G.910–G.919
Digital sections at hierarchical bit rates based on a bit rate of 2048 kbit/s	G.920–G.929
Digital line transmission systems on cable at non-hierarchical bit rates	G.930–G.939
Digital line systems provided by FDM transmission bearers	G.940–G.949
Digital line systems	G.950–G.959
Digital section and digital transmission systems for customer access to ISDN	G.960–G.969
Optical fibre submarine cable systems	G.970–G.979
Optical line systems for local and access networks	G.980–G.999

For further details, please refer to ITU-T List of Recommendations.

ITU-T RECOMMENDATION G.774.02

SYNCHRONOUS DIGITAL HIERARCHY (SDH) CONFIGURATION OF THE PAYLOAD STRUCTURE FOR THE NETWORK ELEMENT VIEW

CORRIGENDUM 1

Source

Corrigendum 1 to ITU-T Recommendation G.774.02 was prepared by ITU-T Study Group 15 (1993-1996) and was approved under the WTSC Resolution No. 1 procedure on the 8th of November 1996.

FOREWORD

ITU (International Telecommunication Union) is the United Nations Specialized Agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the ITU. The ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

INTELLECTUAL PROPERTY RIGHTS

The ITU draws attention to the possibility that the practice or implementation of this Recommendation may involve the use of a claimed Intellectual Property Right. The ITU takes no position concerning the evidence, validity or applicability of claimed Intellectual Property Rights, whether asserted by ITU members or others outside of the Recommendation development process.

As of the date of approval of this Recommendation, the ITU had/had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

© ITU 1997

All rights reserved. No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the ITU.

CONTENTS

	Page
1 Scope	1
1.1 Scope of this Recommendation.....	1
1.2 Structure of this Recommendation.....	1
2 References	1
3 Definitions.....	1
4 Abbreviations	1
5 Payload Configuration Information Model	1
5.1 Overview	1
5.2 Requirements.....	2
6 Object Classes	2
7 Packages	5
8 Attributes	5
9 Actions	5
10 Notifications.....	5
11 Parameters	5
12 Namebindings.....	6
13 Constraint Rules	12
13.1 Constraint Rules Extended Syntax.....	12
13.1.1 Constraint Rules Grammar.....	12
13.1.2 Constraint Rule Templates.....	12
13.2 Connectivity Pointer Constraints.....	12
14 Subordination Rules	21
15 Supporting ASN.1 Productions	29

Recommendation G.774.02

SYNCHRONOUS DIGITAL HIERARCHY (SDH) CONFIGURATION OF THE PAYLOAD STRUCTURE FOR THE NETWORK ELEMENT VIEW

CORRIGENDUM 1

(Geneva, 1996)

1 Scope

1.1 Scope of this Recommendation

Revisions that do not require re-registration

The following text replaces the entire text within 1.1/G.774.02 (1994). All additions are marked in **bold** for clarity.

SDH Payload Configuration Functions are used to configure the various SDH adaptation functions.

Modification of the SDH payload structure is done by applying an action on relevant managed objects. These actions are included by subclassing of existing G.774 managed object Classes.

The new objects defined in this Recommendation supersede those defined in Recommendation G.774.02 (1994). For each object class, attribute, action, notification, parameter defined in this Recommendation it shall be indicated what the impacts upon the existing Recommendation G.774.02 (1994) are.

1.2 Structure of this Recommendation

No revisions are required.

2 References

No revisions are required.

3 Definitions

No revisions are required.

4 Abbreviations

No revisions are required.

5 Payload Configuration Information Model

No revisions are required.

5.1 Overview

No revisions are required.

5.2 Requirements

No revisions are required.

6 Object Classes

Revisions that require re-registration

This clause provides replacement managed object class definitions for the existing Recommendation G.774.02 (1994). Any managed object class replaced by one in this clause is considered to be deprecated. The reasons for the replacement of a managed object class are as follows:

- 1) The replaced managed object class is faulty and must be fixed.
- 2) The replaced managed object class includes an attribute, package, notification or action which has been re-registered in this or another Recommendation.
- 3) The replaced managed object class inherits from a managed object class which has been re-registered in this or another Recommendation.

In each case where a class is replaced, the new class will be registered within this Recommendation. The textual label for the class will be revised to include the text "R1". For example, in the revision of the G.774.02 (1994) managed object class "modifiableVC4TTPBidirectional", the revised label will become "modifiableVC4TTPBidirectionalR1".

Below is a table of classes deprecated from G.774.02 (1994) and the G.774.02 classes which replace them:

Deprecated G.774.02 1994 Classes	Replacement G.774.02 Classes
modifiableVC4TTPBidirectional	modifiableVC4TTPBidirectionalR1
modifiableVC4TTPSink	modifiableVC4TTPSinkR1
modifiableVC4TTPSource	modifiableVC4TTPSourceR1
modifiableVC3TTPBidirectional	modifiableVC3TTPBidirectionalR1
modifiableVC3TTPSink	modifiableVC3TTPSinkR1
modifiableVC3TTPSource	modifiableVC3TTPSourceR1
modifiableVC2TTPBidirectional	modifiableVC2TTPBidirectionalR1
modifiableVC2TTPSink	modifiableVC2TTPSinkR1
modifiableVC12TTPBidirectional	modifiableVC12TTPBidirectionalR1
modifiableVC12TTPSink	modifiableVC12TTPSinkR1
modifiableVC11TTPBidirectional	modifiableVC11TTPBidirectionalR1
modifiableVC11TTPSink	modifiableVC11TTPSinkR1

High Order Path Layer

```
modifiableVC4TTPBidirectionalR1 MANAGED OBJECT CLASS
  DERIVED FROM "Recommendation G.774": vc4TTPBidirectionalR1;
  CHARACTERIZED BY
    "Recommendation M.3100:1992": supportableClientListPackage,
    modifiableVC4TTPBidR1Package PACKAGE
  BEHAVIOUR
    modifiableVC4TTPBidR1Behaviour BEHAVIOUR
  DEFINED AS
    *This CLASS shall be instantiated when change of the SDH frame structure by
    management operation is supported*;;
  ACTIONS
    "Recommendation G.774.02:1993":defineVC4Structure;;;
REGISTERED AS { g774-02MObjectClass 25 };
```

```

modifiableVC4TTPSinkR1 MANAGED OBJECT CLASS
  DERIVED FROM "Recommendation G.774": vc4TTPSinkR1;
  CHARACTERIZED BY
    "Recommendation M.3100:1992": supportableClientListPackage,
    modifiableVC4TTPSinkR1Package PACKAGE
      BEHAVIOUR
        modifiableVC4TTPSinkR1Behaviour          BEHAVIOUR
      DEFINED AS
        *This CLASS shall be instantiated when change of the SDH frame
        structure by management operation is supported*;;
  ACTIONS
    "Recommendation G.774.02:1993":defineVC4Structure;;;
REGISTERED AS { g774-02MObjectClass 26 };

```

```

modifiableVC4TTPSourceR1 MANAGED OBJECT CLASS
  DERIVED FROM "Recommendation G.774": vc4TTPSourceR1;
  CHARACTERIZED BY
    "Recommendation M.3100:1992": supportableClientListPackage,
    modifiableVC4TTPSourceR1Package PACKAGE
      BEHAVIOUR
        modifiableVC4TTPSourceR1Behaviour BEHAVIOUR
      DEFINED AS
        *This CLASS shall be instantiated when change of the SDH frame
        structure by management operation is supported*;;
  ACTIONS
    "Recommendation G.774.02:1993":defineVC4Structure;;;
REGISTERED AS { g774-02MObjectClass 27 };

```

```

modifiableVC3TTPBidirectionalR1 MANAGED OBJECT CLASS
  DERIVED FROM "Recommendation G.774": vc3TTPBidirectionalR1;
  CHARACTERIZED BY
    "Recommendation M.3100:1992": supportableClientListPackage,
    modifiableVC3TTPBidR1Package PACKAGE
      BEHAVIOUR
        modifiableVC3TTPBidR1Behaviour          BEHAVIOUR
      DEFINED AS
        *This CLASS shall be instantiated when change of the SDH frame
        structure by management operation is supported*;;
  ACTIONS
    "Recommendation G.774.02:1993":defineVC3Structure;;;
REGISTERED AS { g774-02MObjectClass 28 };

```

```

modifiableVC3TTPSinkR1 MANAGED OBJECT CLASS
  DERIVED FROM "Recommendation G.774": vc3TTPSinkR1;
  CHARACTERIZED BY
    "Recommendation M.3100:1992": supportableClientListPackage,
    modifiableVC3TTPSinkR1Package PACKAGE
      BEHAVIOUR
        modifiableVC3TTPSinkR1Behaviour          BEHAVIOUR
      DEFINED AS
        *This CLASS shall be instantiated when change of the SDH frame
        structure by management operation is supported*;;
  ACTIONS
    "Recommendation G.774.02:1993":defineVC3Structure;;;
REGISTERED AS { g774-02MObjectClass 29 };

```

```

modifiableVC3TTPSourceR1 MANAGED OBJECT CLASS
  DERIVED FROM "Recommendation G.774": vc3TTPSourceR1;
  CHARACTERIZED BY
    "Recommendation M.3100:1992": supportableClientListPackage,
    modifiableVC3TTPSourceR1Package PACKAGE

```

```

        BEHAVIOUR
        modifiableVC3TTPSourceR1Behaviour BEHAVIOUR
        DEFINED AS
        *This CLASS shall be instantiated when change of the SDH frame
        structure by management operation is supported*;;
    ACTIONS
    "Recommendation G.774.02:1993":defineVC3Structure;;;
REGISTERED AS { g774-02MObjectClass 30 };

```

Low Order Path Layer

```

modifiableVC2TTPBidirectionalR1 MANAGED OBJECT CLASS
    DERIVED FROM "Recommendation G.774": vc2TTPBidirectionalR1;
    CHARACTERIZED BY
    "Recommendation M.3100:1992": supportableClientListPackage,
    modifiableVC2TTPBidR1Package PACKAGE
        BEHAVIOUR
        modifiableVC2TTPBidR1Behaviour BEHAVIOUR
        DEFINED AS
        *This CLASS shall be instantiated when change of the SDH frame
        structure by management operation is supported*;;
    ACTIONS
    "Recommendation G.774.02:1993":defineClientType;;;
REGISTERED AS { g774-02MObjectClass 31 };

```

```

modifiableVC2TTPSinkR1 MANAGED OBJECT CLASS
    DERIVED FROM "Recommendation G.774": vc2TTPSinkR1;
    CHARACTERIZED BY
    "Recommendation M.3100:1992": supportableClientListPackage,
    modifiableVC2TTPSinkR1Package PACKAGE
        BEHAVIOUR
        modifiableVC2TTPSinkR1Behaviour BEHAVIOUR
        DEFINED AS
        *This CLASS shall be instantiated when change of the SDH frame
        structure by management operation is supported*;;
    ACTIONS
    "Recommendation G.774.02:1993":defineClientType;;;
REGISTERED AS { g774-02MObjectClass 32 };

```

```

modifiableVC12TTPBidirectionalR1 MANAGED OBJECT CLASS
    DERIVED FROM "Recommendation G.774": vc12TTPBidirectionalR1;
    CHARACTERIZED BY
    "Recommendation M.3100:1992": supportableClientListPackage,
    modifiableVC12TTPBidR1Package PACKAGE
        BEHAVIOUR
        modifiableVC12TTPBidR1Behaviour BEHAVIOUR
        DEFINED AS
        *This CLASS shall be instantiated when change of the SDH frame
        structure by management operation is supported*;;
    ACTIONS
    "Recommendation G.774.02:1993":defineClientType;;;
REGISTERED AS { g774-02MObjectClass 33 };

```

```

modifiableVC12TTPSinkR1 MANAGED OBJECT CLASS
    DERIVED FROM "Recommendation G.774": vc12TTPSinkR1;
    CHARACTERIZED BY
    "Recommendation M.3100:1992": supportableClientListPackage,
    modifiableVC12TTPSinkR1Package PACKAGE
        BEHAVIOUR
        modifiableVC12TTPSinkR1Behaviour BEHAVIOUR

```

```

    DEFINED AS
    *This CLASS shall be instantiated when change of the SDH frame
    structure by management operation is supported*;;
    ACTIONS
    "Recommendation G.774.02:1993":defineClientType;;;
REGISTERED AS { g774-02MObjectClass 34 };

modifiableVC11TTPBidirectionalR1 MANAGED OBJECT CLASS
    DERIVED FROM "Recommendation G.774": vc11TTPBidirectionalR1;
    CHARACTERIZED BY
    "Recommendation M.3100:1992": supportableClientListPackage,
    modifiableVC11TTPBidR1Package PACKAGE
        BEHAVIOUR
        modifiableVC11TTPBidR1Behaviour          BEHAVIOUR
        DEFINED AS
        *This CLASS shall be instantiated when change of the SDH frame
        structure by management operation is supported*;;
    ACTIONS
    "Recommendation G.774.02:1993":defineClientType;;;
REGISTERED AS { g774-02MObjectClass 35 };

modifiableVC11TTPSinkR1 MANAGED OBJECT CLASS
    DERIVED FROM "Recommendation G.774": vc11TTPSinkR1;
    CHARACTERIZED BY
    "Recommendation M.3100:1992": supportableClientListPackage,
    modifiableVC11TTPSinkR1Package PACKAGE
        BEHAVIOUR
        modifiableVC11TTPSinkR1Behaviour BEHAVIOUR
        DEFINED AS
        *This CLASS shall be instantiated when change of the SDH frame
        structure by management operation is supported*;;
    ACTIONS
    "Recommendation G.774.02:1993":defineClientType;;;
REGISTERED AS { g774-02MObjectClass 36 };

```

7 Packages

No revisions are required.

8 Attributes

No revisions are required.

9 Actions

No revisions are required.

10 Notifications

No revisions are required.

11 Parameters

No revisions are required.

12 Namebindings

Revisions that require re-registration

This clause provides replacement namebinding definitions for the existing Recommendation G.774.02 (1994). Any namebinding replaced by one in this clause is considered to be deprecated. The reasons for the replacement of a namebinding are as follows:

- 1) The replaced namebinding is faulty and must be fixed.
- 2) The replaced namebinding refers to a superior managed object class which has been re-registered in this or another Recommendation.
- 3) The replaced namebinding refers to a subordinate managed object class which has been re-registered in this or another Recommendation.
- 4) The replaced namebinding refers to a naming attribute which has been re-registered in this or another Recommendation.

In each case where a namebinding is replaced, the new namebinding will be registered within this Recommendation. The textual label for the namebinding will be revised to include the text "R1". For example, in the revision of the G.774.02 (1994) namebinding "au3CTPSink-augSink", the revised label will become "au3CTPSink-augSinkR1". Note the "R1" is placed immediately following the revised class which impacts the namebinding.

Below is a table of namebindings deprecated from Recommendation G.774.02 (1994) and the G.774.02 namebindings which replace them:

Deprecated G.774.02 1994 Namebindings

au3CTPSink-augSink
au4CTPSink-augSink
tu11CTPSink-tug2Sink
tu12CTPSink-tug2Sink
tu2CTPSink-tug2Sink
tu3CTPSink-tug3Sink
tug2Source-vc3TTPSource
tug3Sink-vc4TTPSink
tug3Source-vc4TTPSource
vc11TTPSink-sdhNE
vc12TTPSink-sdhNE
vc2TTPSink-sdhNE
vc3TTPSink-sdhNE
vc3TTPSource-sdhNE
vc4TTPSink-sdhNE
vc4TTPSource-sdhNE
vcnUserChannelCTPSink-vc3TTPSink
vcnUserChannelCTPSource-vc3TTPSource
vcnUserChannelCTPSink-vc4TTPSink
vcnUserChannelCTPSource-vc4TTPSource

Replacement G.774 Namebindings

au3CTPSinkR1-augSink
au4CTPSinkR1-augSink
tu11CTPSinkR1-tug2Sink
tu12CTPSinkR1-tug2Sink
tu2CTPSinkR1-tug2Sink
tu3CTPSinkR1-tug3Sink
tug2Source-vc3TTPSourceR1
tug3Sink-vc4TTPSinkR1
tug3Source-vc4TTPSourceR1
vc11TTPSinkR1-sdhNE

vc12TTPSinkR1-sdhNE
 vc2TTPSinkR1-sdhNE
 vc3TTPSinkR1-sdhNE
 vc3TTPSourceR1-sdhNE
 vc4TTPSinkR1-sdhNE
 vc4TTPSourceR1-sdhNE
 vcnUserChannelCTPSink-vc3TTPSinkR1
 vcnUserChannelCTPSource-vc3TTPSourceR1
 vcnUserChannelCTPSink-vc4TTPSinkR1
 vcnUserChannelCTPSource-vc4TTPSourceR1

au3CTPSinkR1-augSink NAME BINDING
 SUBORDINATE OBJECT CLASS
 "Recommendation G.774": au3CTPSinkR1 AND SUBCLASSES;
 NAMED BY
 SUPERIOR OBJECT CLASS
 "Recommendation G.774": augSink AND SUBCLASSES;
 WITH ATTRIBUTE "Recommendation G.774": 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 NE.*
 ;;
 REGISTERED AS { g774-02NameBinding 59 };

au4CTPSinkR1-augSink NAME BINDING
 SUBORDINATE OBJECT CLASS
 "Recommendation G.774": au4CTPSinkR1 AND SUBCLASSES;
 NAMED BY
 SUPERIOR OBJECT CLASS
 "Recommendation G.774": augSink AND SUBCLASSES;
 WITH ATTRIBUTE "Recommendation G.774": 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 NE.*
 ;;
 REGISTERED AS { g774-02NameBinding 60 };

tu11CTPSinkR1-tug2Sink NAME BINDING
 SUBORDINATE OBJECT CLASS
 "Recommendation G.774": tu11CTPSinkR1 AND SUBCLASSES;
 NAMED BY
 SUPERIOR OBJECT CLASS
 "Recommendation G.774": tug2Sink AND SUBCLASSES;
 WITH ATTRIBUTE "Recommendation G.774": 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 NE.*
 ;;
 REGISTERED AS { g774-02NameBinding 61 };

```

tu12CTPSinkR1-tug2Sink NAME BINDING
  SUBORDINATE OBJECT CLASS
  "Recommendation G.774": tu12CTPSinkR1 AND SUBCLASSES;
  NAMED BY
  SUPERIOR OBJECT CLASS
  "Recommendation G.774": tug2Sink AND SUBCLASSES;
  WITH ATTRIBUTE "Recommendation G.774": 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 NE.*
  ;;
REGISTERED AS { g774-02NameBinding 62 };

```

```

tu2CTPSinkR1-tug2Sink NAME BINDING
  SUBORDINATE OBJECT CLASS
  "Recommendation G.774":tu2CTPSinkR1 AND SUBCLASSES;
  NAMED BY
  SUPERIOR OBJECT CLASS
  "Recommendation G.774": tug2Sink AND SUBCLASSES;
  WITH ATTRIBUTE "Recommendation G.774": tu2CTPId;
  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 NE.*
  ;;
REGISTERED AS { g774-02NameBinding 63 };

```

```

tu3CTPSinkR1-tug3Sink NAME BINDING
  SUBORDINATE OBJECT CLASS
  "Recommendation G.774":tu3CTPSinkR1 AND SUBCLASSES;
  NAMED BY
  SUPERIOR OBJECT CLASS
  "Recommendation G.774": tug3Sink AND SUBCLASSES;
  WITH ATTRIBUTE "Recommendation G.774": tu3CTPId;
  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 NE.*
  ;;
REGISTERED AS { g774-02NameBinding 64 };

```

```

tug2Source-vc3TTPSourceR1 NAME BINDING
  SUBORDINATE OBJECT CLASS
  "Recommendation G.774": tug2Source AND
SUBCLASSES;
  NAMED BY
  SUPERIOR OBJECT CLASS
  "Recommendation G.774":vc3TTPSourceR1 AND SUBCLASSES;
  WITH ATTRIBUTE "Recommendation G.774": 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 NE.*

::

REGISTERED AS { g774-02NameBinding 65 };

tug3Sink-vc4TTPSinkR1 NAME BINDING

SUBORDINATE OBJECT CLASS

"Recommendation G.774": tug3Sink AND SUBCLASSES;

NAMED BY

SUPERIOR OBJECT CLASS

"Recommendation G.774":vc4TTPSinkR1 AND SUBCLASSES;

WITH ATTRIBUTE "Recommendation G.774": 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 NE.

::

REGISTERED AS { g774-02NameBinding 66 };

tug3Source-vc4TTPSourceR1 NAME BINDING

SUBORDINATE OBJECT CLASS

"Recommendation G.774": tug3Source AND SUBCLASSES;

NAMED BY

SUPERIOR OBJECT CLASS

"Recommendation G.774":vc4TTPSourceR1 AND SUBCLASSES;

WITH ATTRIBUTE "Recommendation G.774": 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 NE.

::

REGISTERED AS { g774-02NameBinding 67 };

vc11TTPSinkR1-sdhNE NAME BINDING

SUBORDINATE OBJECT CLASS

"Recommendation G.774":vc11TTPSinkR1 AND SUBCLASSES;

NAMED BY

SUPERIOR OBJECT CLASS

"Recommendation G.774": sdhNE AND SUBCLASSES;

WITH ATTRIBUTE "Recommendation G.774": vc11TTPId;

CREATE

WITH-REFERENCE-OBJECT,

WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE

DELETES-CONTAINED-OBJECTS;

REGISTERED AS { g774-02NameBinding 68 };

vc12TTPSinkR1-sdhNE NAME BINDING

SUBORDINATE OBJECT CLASS

"Recommendation G.774":vc12TTPSinkR1 AND SUBCLASSES;

NAMED BY

SUPERIOR OBJECT CLASS

"Recommendation G.774": sdhNE AND SUBCLASSES;

WITH ATTRIBUTE "Recommendation G.774": vc12TTPId;

CREATE

WITH-REFERENCE-OBJECT,

WITH-AUTOMATIC-INSTANCE-NAMING;

```

DELETE
  DELETES-CONTAINED-OBJECTS;
REGISTERED AS { g774-02NameBinding 69 };

vc2TTPSinkR1-sdhNE NAME BINDING
  SUBORDINATE OBJECT CLASS
  "Recommendation G.774":vc2TTPSinkR1 AND SUBCLASSES;
  NAMED BY
  SUPERIOR OBJECT CLASS
  "Recommendation G.774": sdhNE AND SUBCLASSES;
  WITH ATTRIBUTE "Recommendation G.774": vc2TTPIId;
  CREATE
    WITH-REFERENCE-OBJECT,
    WITH-AUTOMATIC-INSTANCE-NAMING;
  DELETE
    DELETES-CONTAINED-OBJECTS;
REGISTERED AS { g774-02NameBinding 70 };

vc3TTPSinkR1-sdhNE NAME BINDING
  SUBORDINATE OBJECT CLASS
  "Recommendation G.774":vc3TTPSinkR1 AND SUBCLASSES;
  NAMED BY
  SUPERIOR OBJECT CLASS
  "Recommendation G.774": sdhNE AND SUBCLASSES;
  WITH ATTRIBUTE "Recommendation G.774": vc3TTPIId;
  CREATE
    WITH-REFERENCE-OBJECT,
    WITH-AUTOMATIC-INSTANCE-NAMING;
  DELETE
    DELETES-CONTAINED-OBJECTS;
REGISTERED AS { g774-02NameBinding 71 };

vc3TTPSourceR1-sdhNE NAME BINDING
  SUBORDINATE OBJECT CLASS
  "Recommendation G.774":vc3TTPSourceR1 AND SUBCLASSES;
  NAMED BY
  SUPERIOR OBJECT CLASS
  "Recommendation G.774": sdhNE AND SUBCLASSES;
  WITH ATTRIBUTE "Recommendation G.774": vc3TTPIId;
  CREATE
    WITH-REFERENCE-OBJECT,
    WITH-AUTOMATIC-INSTANCE-NAMING;
  DELETE
    DELETES-CONTAINED-OBJECTS;
REGISTERED AS { g774-02NameBinding 72 };

vc4TTPSinkR1-sdhNE NAME BINDING
  SUBORDINATE OBJECT CLASS
  "Recommendation G.774":vc4TTPSinkR1 AND SUBCLASSES;
  NAMED BY
  SUPERIOR OBJECT CLASS
  "Recommendation G.774": sdhNE AND SUBCLASSES;
  WITH ATTRIBUTE "Recommendation G.774": vc4TTPIId;
  CREATE
    WITH-REFERENCE-OBJECT,
    WITH-AUTOMATIC-INSTANCE-NAMING;
  DELETE
    DELETES-CONTAINED-OBJECTS;
REGISTERED AS { g774-02NameBinding 73 };

```

```

vc4TTPSourceR1-sdhNE NAME BINDING
  SUBORDINATE OBJECT CLASS
  "Recommendation G.774":vc4TTPSourceR1 AND SUBCLASSES;
  NAMED BY
  SUPERIOR OBJECT CLASS
  "Recommendation G.774": sdhNE AND SUBCLASSES;
  WITH ATTRIBUTE "Recommendation G.774": vc4TTPId;
  CREATE
    WITH-REFERENCE-OBJECT,
    WITH-AUTOMATIC-INSTANCE-NAMING;
  DELETE
    DELETES-CONTAINED-OBJECTS;
REGISTERED AS { g774-02NameBinding 74 };

vcnUserChannelCTPSink-vc3TTPSinkR1 NAME BINDING
  SUBORDINATE OBJECT CLASS
  "Recommendation G.774": vcnUserChannelCTPSink AND SUBCLASSES;
  NAMED BY
  SUPERIOR OBJECT CLASS
  "Recommendation G.774":vc3TTPSinkR1 AND SUBCLASSES;
  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 NE.*
  ;;
REGISTERED AS { g774-02NameBinding 75 };

vcnUserChannelCTPSource-vc3TTPSourceR1 NAME BINDING
  SUBORDINATE OBJECT CLASS
  "Recommendation G.774": vcnUserChannelCTPSource AND SUBCLASSES;
  NAMED BY
  SUPERIOR OBJECT CLASS
  "Recommendation G.774":vc3TTPSourceR1 AND SUBCLASSES;
  WITH ATTRIBUTE "Recommendation G.774": 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 NE.*
  ;;
REGISTERED AS { g774-02NameBinding 76 };

vcnUserChannelCTPSink-vc4TTPSinkR1 NAME BINDING
  SUBORDINATE OBJECT CLASS
  "Recommendation G.774": vcnUserChannelCTPSink AND SUBCLASSES;
  NAMED BY
  SUPERIOR OBJECT CLASS
  "Recommendation G.774":vc4TTPSinkR1 AND SUBCLASSES;
  WITH ATTRIBUTE "Recommendation G.774": 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 NE.*
  ;;
REGISTERED AS { g774-02NameBinding 77 };

```

```

vcnUserChannelCTPSource-vc4TTPSourceR1 NAME BINDING
  SUBORDINATE OBJECT CLASS
  "Recommendation G.774": vcnUserChannelCTPSource AND SUBCLASSES;
  NAMED BY
  SUPERIOR OBJECT CLASS
  "Recommendation G.774":vc4TTPSourceR1 AND SUBCLASSES;
  WITH ATTRIBUTE "Recommendation G.774": 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 NE.*
;;
REGISTERED AS { g774-02NameBinding 78 };

```

13 Constraint Rules

13.1 Constraint Rules Extended Syntax

No revisions are required.

13.1.1 Constraint Rules Grammar

No revisions are required.

13.1.2 Constraint Rule Templates

No revisions are required.

13.2 Connectivity Pointer Constraints

Revisions that do not require re-registration

The following text replaces the text within 13.2/G.774.02 (1994) associated with the following listed constraint rules only:

```

upstreamConnectivityPointer-rsTTPSink
upstreamConnectivityPointer-rsTTPSource

```

Any constraint rules defined in Recommendation G.774.02 (1994) which are not referred to here are retained unaltered.

```

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

```

```

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

```

Revisions that require re-registration

This clause provides replacement constraint rule definitions for the existing Recommendation G.774.02 (1994). Any constraint rule replaced by one in this clause is considered to be deprecated. The reasons for the replacement of a constraint rule are as follows:

- 1) The replaced constraint rule is faulty and must be fixed.
- 2) The replaced constraint rule refers to a managed object class which has been re-registered in this or another Recommendation.
- 3) The replaced constraint rule refers to an attribute which has been reregistered in this or another Recommendation.

In each case where a constraint is replaced, the new constraint will be registered within this Recommendation. The textual label for the constraint will be revised to include the text "R1". For example, in the revision of the G.774.02 (1994) constraint "downstreamConnectivityPointer-au3CTPSink", the revised label will become "downstreamConnectivityPointer-au3CTPSinkR1". Note the "R1" is placed immediately following the revised class which impacts the constraint. In the case where the class within the label has not changed but the constraint is still altered because the constraint refers to a class that has changed, then the "R1" is placed immediately following the "downstreamConnectivityPointer" text of the revised constraint label. For example, in the revision of the G.774.02 (1994) constraint "downstreamConnectivityPointer-au3CTPSource", the revised label will become "downstreamConnectivityPointerR1-au3CTPSource".

The syntax, grammar and templates used for these constraint rules are defined in Recommendation G.774 (1992) and extended in Recommendation G.774.02 (1994).

Below is a table of constraint rules deprecated from Recommendation G.774.02 (1994) and the G.774.02 constraint rules which replace them:

Deprecated G.774.02 1994 Constraint Rules

```

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

Replacement G.774.02 Constraint Rules

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

"Recommendation G.774":au3CTPSinkR1 AND SUBCLASSES;

IS RELATED TO

vc3TTPSinkR1 AND SUBCLASSES,

"Recommendation G.774":au3CTPSource AND SUBCLASSES,

"Recommendation G.774":tu3CTPSource AND SUBCLASSES,

"Recommendation G.774":vc4TTPSinkR1 AND SUBCLASSES;

USING ATTRIBUTE

"Recommendation M.3100:1992":downstreamConnectivityPointer;

CASE {

single ACCORDING TO RULE

SET SIZE(1) OF CHOICE {

"Recommendation G.774":vc3TTPSinkR1 AND SUBCLASSES,

"Recommendation G.774":au3CTPSource AND SUBCLASSES,

"Recommendation G.774":tu3CTPSource AND SUBCLASSES,

"Recommendation G.774":vc4TTPSinkR1 AND SUBCLASSES},

broadcast ACCORDING TO RULE

SET SIZE(1) OF CHOICE {

SET SIZE(1..N) OF CHOICE {

"Recommendation G.774":vc3TTPSinkR1 AND SUBCLASSES,

"Recommendation G.774":tu3CTPSource AND SUBCLASSES,

"Recommendation G.774":au3CTPSource AND SUBCLASSES},

SET SIZE(1..N) OF CHOICE {

"Recommendation G.774":vc4TTPSinkR1 AND SUBCLASSES}

}

};

;

upstreamConnectivityPointerR1-au3CTPSource CONSTRAINT RULE

OBJECT CLASS

"Recommendation G.774":au3CTPSource AND SUBCLASSES;

IS RELATED TO

"Recommendation G.774":vc3TTPSourceR1 AND SUBCLASSES,

"Recommendation G.774":au3CTPSinkR1 AND SUBCLASSES,

"Recommendation G.774":tu3CTPSinkR1 AND SUBCLASSES,

"Recommendation G.774":vc4TTPSourceR1 AND SUBCLASSES;

USING ATTRIBUTE

"Recommendation M.3100:1992":upstreamConnectivityPointer;

CASE {

single ACCORDING TO RULE

SET SIZE(1) OF CHOICE {

"Recommendation G.774":vc3TTPSourceR1 AND SUBCLASSES,

"Recommendation G.774":au3CTPSinkR1 AND SUBCLASSES,

"Recommendation G.774":tu3CTPSinkR1 AND SUBCLASSES,

"Recommendation G.774":vc4TTPSourceR1 AND SUBCLASSES}

};

;

downstreamConnectivityPointer-au4CTPSinkR1 CONSTRAINT RULE

OBJECT CLASS

au4CTPSinkR1 AND SUBCLASSES;

IS RELATED TO

"Recommendation G.774":au4CTPSource AND SUBCLASSES,

"Recommendation G.774":vc4TTPSinkR1 AND SUBCLASSES;

USING ATTRIBUTE

"Recommendation M.3100:1992":downstreamConnectivityPointer;

CASE {

single ACCORDING TO RULE

SET SIZE(1) OF CHOICE {

"Recommendation G.774":vc4TTPSinkR1 AND SUBCLASSES,

"Recommendation G.774":au4CTPSource AND SUBCLASSES},

broadcast ACCORDING TO RULE

SET SIZE(1..N) OF CHOICE {

"Recommendation G.774":vc4TTPSinkR1 AND SUBCLASSES,

"Recommendation G.774":au4CTPSource AND SUBCLASSES}

};

;

upstreamConnectivityPointerR1-au4CTPSource CONSTRAINT RULE

OBJECT CLASS

"Recommendation G.774":au4CTPSource AND SUBCLASSES;

IS RELATED TO

"Recommendation G.774":au4CTPSinkR1 AND SUBCLASSES,

"Recommendation G.774":vc4TTPSourceR1 AND SUBCLASSES;

USING ATTRIBUTE

"Recommendation M.3100:1992":upstreamConnectivityPointer;

CASE {

single ACCORDING TO RULE

SET SIZE(1) OF CHOICE {

"Recommendation G.774":vc4TTPSourceR1 AND SUBCLASSES,

"Recommendation G.774":au4CTPSinkR1 AND SUBCLASSES}

};

;

downstreamConnectivityPointer-tu11CTPSinkR1 CONSTRAINT RULE

OBJECT CLASS

"Recommendation G.774":tu11CTPSinkR1 AND SUBCLASSES;

```

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

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

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

upstreamConnectivityPointerR1-tu12CTPSource CONSTRAINT RULE
OBJECT CLASS
    "Recommendation G.774":tu12CTPSource AND SUBCLASSES;
IS RELATED TO
    "Recommendation G.774":vc12TTPSource AND SUBCLASSES,
    "Recommendation G.774":tu12CTPSinkR1 AND SUBCLASSES;
USING ATTRIBUTE
    "Recommendation M.3100:1992":upstreamConnectivityPointer;

```

```

CASE {
    single ACCORDING TO RULE
        SET SIZE(1) OF CHOICE {
            "Recommendation G.774":vc12TTPSource AND SUBCLASSES,
            "Recommendation G.774":tu12CTPSinkR1 AND SUBCLASSES}
};
;

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

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

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

```

```

        broadcast ACCORDING TO RULE
            SET SIZE(1..N) OF CHOICE {
                "Recommendation G.774":vc3TTPSinkR1 AND SUBCLASSES,
                "Recommendation G.774":au3CTPSource AND SUBCLASSES,
                "Recommendation G.774":tu3CTPSource AND SUBCLASSES }
    };
;

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

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

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

```

```

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

```

```

downstreamConnectivityPointerR1-vc12TTPSource1 CONSTRAINT RULE
  OBJECT CLASS
    "Recommendation G.774":vc12TTPSource AND SUBCLASSES;
  IS RELATED TO
    "Recommendation G.774":vc12TTPSinkR1 AND SUBCLASSES,
    "Recommendation G.774":tu12CTPSource AND SUBCLASSES;
  USING ATTRIBUTE
    "Recommendation M.3100:1992":downstreamConnectivityPointer;
  CASE {
    single ACCORDING TO RULE
      SET SIZE(1) OF CHOICE {
        "Recommendation G.774":vc12TTPSinkR1 AND SUBCLASSES,
        "Recommendation G.774":tu12CTPSource AND SUBCLASSES},
    broadcast ACCORDING TO RULE
      SET SIZE(1..N) OF CHOICE {
        vc12TTPSinkR1 AND SUBCLASSES,
        "Recommendation G.774":tu12CTPSource AND SUBCLASSES}
  };
;

```

```

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

```

```

downstreamConnectivityPointerR1-vc2TTPSource CONSTRAINT RULE
  OBJECT CLASS
    "Recommendation G.774":vc2TTPSource AND SUBCLASSES;
  IS RELATED TO
    "Recommendation G.774":vc2TTPSinkR1 AND SUBCLASSES
    "Recommendation G.774":tu2CTPSource AND SUBCLASSES;
  USING ATTRIBUTE
    "Recommendation M.3100:1992":downstreamConnectivityPointer;

```

```

CASE {
    single ACCORDING TO RULE
        SET SIZE(1) OF CHOICE {
            "Recommendation G.774":vc2TTPSinkR1 AND SUBCLASSES,
            "Recommendation G.774":tu2CTPSource AND SUBCLASSES},
    broadcast ACCORDING TO RULE
        SET SIZE(1..N) OF CHOICE {
            "Recommendation G.774":vc2TTPSinkR1 AND SUBCLASSES,
            "Recommendation G.774":tu2CTPSource AND SUBCLASSES }
};
;

upstreamConnectivityPointer-vc3TTPSinkR1 CONSTRAINT RULE
OBJECT CLASS
    "Recommendation G.774":vc3TTPSinkR1 AND SUBCLASSES;
IS RELATED TO
    "Recommendation G.774":vc3TTPSourceR1 AND SUBCLASSES,
    "Recommendation G.774":au3CTPSinkR1 AND SUBCLASSES,
    "Recommendation G.774":tu3CTPSinkR1 AND SUBCLASSES;
USING ATTRIBUTE
    "Recommendation M.3100:1992":upstreamConnectivityPointer;
CASE {
    single ACCORDING TO RULE
        SET SIZE(1) OF CHOICE {
            "Recommendation G.774":vc3TTPSourceR1,
            "Recommendation G.774":au3CTPSinkR1,
            "Recommendation G.774":tu3CTPSinkR1 }
};
;

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

upstreamConnectivityPointer-vc4TTPSinkR1 CONSTRAINT RULE
OBJECT CLASS
    "Recommendation G.774":vc4TTPSinkR1 AND SUBCLASSES;
IS RELATED TO
    "Recommendation G.774":vc4TTPSourceR1 AND SUBCLASSES,
    "Recommendation G.774":au4CTPSinkR1 AND SUBCLASSES,
    "Recommendation G.774":au3CTPSinkR1 AND SUBCLASSES;

```

```

USING ATTRIBUTE
  "Recommendation M.3100:1992":upstreamConnectivityPointer;
CASE {
  single ACCORDING TO RULE
    SET SIZE(1) OF CHOICE {
      "Recommendation G.774":vc4TTPSourceR1 AND SUBCLASSES,
      "Recommendation G.774":au4CTPSinkR1 AND SUBCLASSES },
  concatenated ACCORDING TO RULE
    SET SIZE(1) OF CHOICE {
      SEQUENCE SIZE(3) OF
        "Recommendation G.774":au3CTPSinkR1 AND SUBCLASSES}
};
;

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

```

14 Subordination Rules

Revisions that do not require re-registration

The following text replaces the text within clause 14/G.774.02 (1994) associated with the following listed subordination rules only. All additions are marked in **bold** for clarity.

tug3BidirectionalSubordination

Any subordination rules defined in Recommendation G.774.02 (1994) which are not referred to here are retained unaltered.

```

tug3BidirectionalSubordination SUBORDINATION RULE
SUPERIOR OBJECT CLASS
  tug3Bidirectional;

```

```

NAMES SUBORDINATES
    tug2Sink, tug2Source, tug2Bidirectional,
    modifiableTug2Sink,
    modifiableTug2Source,
    modifiableTug2Bidirectional,
    tu3CTPSink,
    tu3CTPSource,
    tu3CTPBidirectional;
ACCORDING TO RULE
    CHOICE {
        SET SIZE(1) OF CHOICE {
            tu3CTPSink,
            tu3CTPSource,
            tu3CTPBidirectional },
        SET SIZE(7) OF CHOICE {
            tug2Sink, tug2Source, tug2Bidirectional,
            modifiableTug2Sink,
            modifiableTug2Source,
            modifiableTug2Bidirectional
        }
    };
;

```

Revisions that require re-registration

This clause provides replacement subordination rule definitions for the existing Recommendation G.774.02 (1994). Any subordination rule replaced by one in this clause is considered to be deprecated. The reasons for the replacement of a subordination rule are as follows:

- 1) The replaced subordination rule is faulty and must be fixed.
- 2) The replaced subordination rule refers to a managed object class which has been re-registered in this or another Recommendation.

In each case where a subordination rule is replaced, the new subordination rule will be registered within this Recommendation. The textual label for the subordination rule will be revised to include the text "R1". For example, in the revision of the G.774.02 (1994) subordination rule "vc3TTPSinkSubordination", the revised label will become "vc3TTPSinkR1Subordination". Note the "R1" is placed immediately following the revised class which impacts the subordination rule. In the case where the class within the label has not changed but the subordination rule is still altered because the subordination rule refers to a class that has changed, then the "R1" is placed at the end of the revised subordination rule label. For example, in the revision of the G.774.02 (1994) subordination rule "modifiableAugSinkSubordination", the revised label will become "modifiableAugSinkSubordinationR1".

Below is a table of subordination rules deprecated from Recommendation G.774.02 (1994) and the G.774.02 subordination rules which replace them.

Deprecated G.774.02 1994 Subordination Rules

```

modifiableAugSinkSubordination
modifiableAugBidirectionalSubordination
modifiableTug2SinkSubordination
modifiableTug2BidirectionalSubordination
modifiableTug3SinkSubordination
tug3BidirectionalSubordination
modifiableVC3TTPSinkSubordination
vc3TTPSinkSubordination
modifiableVC3TTPSourceSubordination

```

vc3TTPSourceSubordination
 modifiableVC3TTPBidirectionalSubordination
 vc3TTPBidirectionalSubordination
 modifiableVC4TTPSinkSubordination
 vc4TTPSinkSubordination
 modifiableVC4TTPSourceSubordination
 vc4TTPSourceSubordination
 modifiableVC4TTPBidirectionalSubordination
 vc4TTPBidirectionalSubordination

Replacement G.774.02 Subordination Rules

modifiableAugSinkSubordinationR1
 modifiableAugBidirectionalSubordinationR1
 modifiableTug2SinkSubordinationR1
 modifiableTug2BidirectionalSubordinationR1
 modifiableTug3SinkSubordinationR1
 tug3BidirectionalSubordinationR1
 modifiableVC3TTPSinkR1Subordination
 vc3TTPSinkR1Subordination
 modifiableVC3TTPSourceR1Subordination
 vc3TTPSourceR1Subordination
 modifiableVC3TTPBidirectionalR1Subordination
 vc3TTPBidirectionalR1Subordination
 modifiableVC4TTPSinkR1Subordination
 vc4TTPSinkR1Subordination
 modifiableVC4TTPSourceR1Subordination
 vc4TTPSourceR1Subordination
 modifiableVC4TTPBidirectionalR1Subordination
 vc4TTPBidirectionalR1Subordination

modifiableAugSinkSubordinationR1 SUBORDINATION RULE
 SUPERIOR OBJECT CLASS
 "Recommendation G.774.02":modifiableAugSink;
 NAMES SUBORDINATES
 "Recommendation G.774":au4CTPSinkR1,
 "Recommendation G.774":au3CTPSinkR1;
 ACCORDING TO RULE
 CHOICE {
 SET SIZE(1) OF "Recommendation G.774":au4CTPSinkR1,
 SET SIZE(3) OF "Recommendation G.774":au3CTPSinkR1
 };
 ;

modifiableAugBidirectionalSubordinationR1 SUBORDINATION RULE
 SUPERIOR OBJECT CLASS
 "Recommendation G.774.02":modifiableAugBidirectional;
 NAMES SUBORDINATES
 "Recommendation G.774":au4CTPSinkR1,
 "Recommendation G.774":au4CTPSource,
 "Recommendation G.774":au4CTPBidirectionalR1,
 "Recommendation G.774":au3CTPSinkR1,
 "Recommendation G.774":au3CTPSource,
 "Recommendation G.774":au3CTPBidirectionalR1;
 ACCORDING TO RULE
 CHOICE {
 SET SIZE(1) OF CHOICE {
 "Recommendation G.774":au4CTPSinkR1,
 "Recommendation G.774":au4CTPSource,
 "Recommendation G.774":au4CTPBidirectionalR1 },
 "Recommendation G.774":au3CTPSinkR1,
 "Recommendation G.774":au3CTPSource,
 "Recommendation G.774":au3CTPBidirectionalR1 }
 };

```

        SET SIZE(3) OF CHOICE {
            "Recommendation G.774":au3CTPSinkR1,
            "Recommendation G.774":au3CTPSource,
            "Recommendation G.774":au3CTPBidirectionalR1 }
    };

;

modifiableTug2SinkSubordinationR1 SUBORDINATION RULE
    SUPERIOR OBJECT CLASS
        "Recommendation G.774.02":modifiableTug2Sink;
    NAMES SUBORDINATES
        "Recommendation G.774":tu11CTPSinkR1,
        "Recommendation G.774":tu12CTPSinkR1,
        "Recommendation G.774":tu2CTPSinkR1;
    ACCORDING TO RULE
        CHOICE {
            SET SIZE(1) OF "Recommendation G.774":tu2CTPSinkR1,
            SET SIZE(3) OF "Recommendation G.774":tu12CTPSinkR1,
            SET SIZE(4) OF "Recommendation G.774":tu11CTPSinkR1
        };

;

modifiableTug2BidirectionalSubordinationR1 SUBORDINATION RULE
    SUPERIOR OBJECT CLASS
        "Recommendation G.774.02":modifiableTug2Bidirectional;
    NAMES SUBORDINATES
        "Recommendation G.774":tu11CTPSinkR1,
        "Recommendation G.774":tu11CTPSource,
        "Recommendation G.774":tu11CTPBidirectionalR1,
        "Recommendation G.774":tu12CTPSinkR1,
        "Recommendation G.774":tu12CTPSource,
        "Recommendation G.774":tu12CTPBidirectionalR1,
        "Recommendation G.774":tu2CTPSinkR1,
        "Recommendation G.774":tu2CTPSource,
        "Recommendation G.774":tu2CTPBidirectionalR1;
    ACCORDING TO RULE
        CHOICE {
            SET SIZE(1) OF CHOICE {
                "Recommendation G.774":tu2CTPSinkR1,
                "Recommendation G.774":tu2CTPSource,
                "Recommendation G.774":tu2CTPBidirectionalR1 },
            SET SIZE(3) OF CHOICE {
                tu12CTPSinkR1,
                "Recommendation G.774":tu12CTPSource,
                "Recommendation G.774":tu12CTPBidirectionalR1 },
            SET SIZE(4) OF CHOICE {
                "Recommendation G.774":tu11CTPSinkR1,
                "Recommendation G.774":tu11CTPSource,
                "Recommendation G.774":tu11CTPBidirectionalR1 }
        };

;

modifiableTug3SinkSubordinationR1 SUBORDINATION RULE
    SUPERIOR OBJECT CLASS
        "Recommendation G.774.02":modifiableTug3Sink;
    NAMES SUBORDINATES
        "Recommendation G.774":tug2Sink,
        "Recommendation G.774.02":modifiableTug2Sink,
        "Recommendation G.774":tu3CTPSinkR1;

```

ACCORDING TO RULE

```
CHOICE {
    SET SIZE(1) OF "Recommendation G.774":tu3CTPSinkR1,
    SET SIZE(7) OF CHOICE {
        "Recommendation G.774":tug2Sink,
        "Recommendation G.774.02":modifiableTug2Sink }
};
```

;

tug3BidirectionalSubordinationR1 SUBORDINATION RULE

SUPERIOR OBJECT CLASS

"Recommendation G.774":tug3Bidirectional;

NAMES SUBORDINATES

```
"Recommendation G.774":tug2Sink,
"Recommendation G.774":tug2Source,
"Recommendation G.774":tug2Bidirectional,
"Recommendation G.774.02":modifiableTug2Sink,
"Recommendation G.774.02":modifiableTug2Source,
"Recommendation G.774.02":modifiableTug2Bidirectional,
"Recommendation G.774":tu3CTPSinkR1,
"Recommendation G.774":tu3CTPSource,
"Recommendation G.774":tu3CTPBidirectionalR1;
```

ACCORDING TO RULE

```
CHOICE {
    SET SIZE(1) OF CHOICE {
        "Recommendation G.774":tu3CTPSinkR1,
        "Recommendation G.774":tu3CTPSource,
        "Recommendation G.774":tu3CTPBidirectionalR1 },
    SET SIZE(7) OF CHOICE {
        "Recommendation G.774":tug2Sink,
        "Recommendation G.774":tug2Source,
        "Recommendation G.774":tug2Bidirectional,
        "Recommendation G.774.02":modifiableTug2Sink,
        "Recommendation G.774.02":modifiableTug2Source,
        "Recommendation G.774.02":modifiableTug2Bidirectional
    }
};
```

;

modifiableVC3TTPSinkR1Subordination SUBORDINATION RULE

SUPERIOR OBJECT CLASS

"Recommendation G.774":modifiableVC3TTPSinkR1;

NAMES SUBORDINATES

```
"Recommendation G.774":tug2Sink,
"Recommendation G.774.02":modifiableTug2Sink,
"Recommendation G.774":vcnUserChannelCTPSink;
```

ACCORDING TO RULE

```
SET {
    SET SIZE(7) OF CHOICE {
        "Recommendation G.774":tug2Sink,
        "Recommendation G.774.02":modifiableTug2Sink },
    SET SIZE(1) OF
        "Recommendation G.774":vcnUserChannelCTPSink
};
```

;

vc3TTPSinkR1Subordination SUBORDINATION RULE

SUPERIOR OBJECT CLASS

"Recommendation G.774":vc3TTPSinkR1;

NAMES SUBORDINATES
 "Recommendation G.774":tug2Sink,
 "Recommendation G.774.02":modifiableTug2Sink,
 "Recommendation G.774":vcnUserChannelCTPSink;
 ACCORDING TO RULE
 SET {
 SET SIZE(7) OF CHOICE {
 "Recommendation G.774":tug2Sink,
 "Recommendation G.774.02":modifiableTug2Sink },
 SET SIZE(1) OF
 "Recommendation G.774":vcnUserChannelCTPSink
 };
 ;

modifiableVC3TTPSourceR1Subordination SUBORDINATION RULE
 SUPERIOR OBJECT CLASS
 "Recommendation G.774":modifiableVC3TTPSourceR1;
 NAMES SUBORDINATES
 "Recommendation G.774":tug2Source,
 "Recommendation G.774.02":modifiableTug2source,
 "Recommendation G.774":vcnUserChannelCTPSource;
 ACCORDING TO RULE
 SET {
 SET SIZE(7) OF CHOICE {
 "Recommendation G.774":tug2Source,
 "Recommendation G.774.02":modifiableTug2Source },
 SET SIZE(1) OF
 "Recommendation G.774":vcnUserChannelCTPSource
 };
 ;

vc3TTPSourceR1Subordination SUBORDINATION RULE
 SUPERIOR OBJECT CLASS
 "Recommendation G.774":vc3TTPSourceR1;
 NAMES SUBORDINATES
 "Recommendation G.774":tug2Source,
 "Recommendation G.774.02":modifiableTug2source,
 "Recommendation G.774":vcnUserChannelCTPSource;
 ACCORDING TO RULE
 SET {
 SET SIZE(7) OF CHOICE {
 "Recommendation G.774":tug2Source,
 "Recommendation G.774.02":modifiableTug2Source },
 SET SIZE(1) OF
 "Recommendation G.774":vcnUserChannelCTPSource
 };
 ;

modifiableVC3TTPBidirectionalR1Subordination SUBORDINATION RULE
 SUPERIOR OBJECT CLASS
 "Recommendation G.774":modifiableVC3TTPBidirectionalR1;
 NAMES SUBORDINATES
 "Recommendation G.774":tug2Bidirectional,
 "Recommendation G.774.02":modifiableTug2Bidirectional,
 "Recommendation G.774":vcnUserChannelCTPSink,
 "Recommendation G.774":vcnUserChannelCTPSource,
 "Recommendation G.774":vcnUserChannelCTPBidirectional;

ACCORDING TO RULE

```
SET {  
    SET SIZE(7) OF CHOICE {  
        "Recommendation G.774":tug2Bidirectional,  
        "Recommendation G.774.02":modifiableTug2Bidirectional },  
    SET SIZE(1) OF CHOICE {  
        "Recommendation G.774":vcnUserChannelCTPSink,  
        "Recommendation G.774":vcnUserChannelCTPSource,  
        "Recommendation G.774":vcnUserChannelCTPBidirectional }  
};
```

;

vc3TTPBidirectionalR1Subordination SUBORDINATION RULE

SUPERIOR OBJECT CLASS

"Recommendation G.774":vc3TTPBidirectionalR1;

NAMES SUBORDINATES

"Recommendation G.774":tug2Bidirectional,
"Recommendation G.774.02":modifiableTug2Bidirectional,
"Recommendation G.774":vcnUserChannelCTPSink,
"Recommendation G.774":vcnUserChannelCTPSource,
"Recommendation G.774":vcnUserChannelCTPBidirectional;

ACCORDING TO RULE

```
SET {  
    SET SIZE(7) OF CHOICE {  
        "Recommendation G.774":tug2Bidirectional,  
        "Recommendation G.774.02":modifiableTug2Bidirectional },  
    SET SIZE(1) OF CHOICE {  
        "Recommendation G.774":vcnUserChannelCTPSink,  
        "Recommendation G.774":vcnUserChannelCTPSource,  
        "Recommendation G.774":vcnUserChannelCTPBidirectional }  
};
```

;

modifiableVC4TTPSinkR1Subordination SUBORDINATION RULE

SUPERIOR OBJECT CLASS

"Recommendation G.774":modifiableVC4TTPSinkR1;

NAMES SUBORDINATES

"Recommendation G.774":tug3Sink,
"Recommendation G.774.02":modifiableTug3Sink,
"Recommendation G.774":vcnUserChannelCTPSink;

ACCORDING TO RULE

```
SET {  
    SET SIZE(3) OF CHOICE {  
        "Recommendation G.774":tug3Sink,  
        "Recommendation G.774.02":modifiableTug3Sink },  
    SET SIZE(1) OF  
        "Recommendation G.774":vcnUserChannelCTPSink  
};
```

;

vc4TTPSinkR1Subordination SUBORDINATION RULE

SUPERIOR OBJECT CLASS

"Recommendation G.774":vc4TTPSinkR1;

NAMES SUBORDINATES

"Recommendation G.774":tug3Sink,
"Recommendation G.774.02":modifiableTug3Sink,
"Recommendation G.774":vcnUserChannelCTPSink;

```

    ACCORDING TO RULE
    SET {
        SET SIZE(3) OF CHOICE {
            "Recommendation G.774":tug3Sink,
            "Recommendation G.774.02":modifiableTug3Sink },
        SET SIZE(1) OF
            "Recommendation G.774":vcnUserChannelCTPSink
    };
;

modifiableVC4TTPSourceR1Subordination SUBORDINATION RULE
    SUPERIOR OBJECT CLASS
        "Recommendation G.774":modifiableVC4TTPSourceR1;
    NAMES SUBORDINATES
        "Recommendation G.774":tug3Source,
        "Recommendation G.774.02":modifiableTug3source,
        "Recommendation G.774":vcnUserChannelCTPSource;
    ACCORDING TO RULE
    SET {
        SET SIZE(3) OF CHOICE {
            "Recommendation G.774":tug3Source,
            "Recommendation G.774.02":modifiableTug3Source },
        SET SIZE(1) OF
            "Recommendation G.774":vcnUserChannelCTPSource
    };
;

vc4TTPSourceR1Subordination SUBORDINATION RULE
    SUPERIOR OBJECT CLASS
        "Recommendation G.774":vc4TTPSourceR1;
    NAMES SUBORDINATES
        "Recommendation G.774":tug3Source,
        "Recommendation G.774.02":modifiableTug3source,
        "Recommendation G.774":vcnUserChannelCTPSource;
    ACCORDING TO RULE
    SET {
        SET SIZE(3) OF CHOICE {
            "Recommendation G.774":tug3Source,
            "Recommendation G.774.02":modifiableTug3Source },
        SET SIZE(1) OF
            "Recommendation G.774":vcnUserChannelCTPSource
    };
;

modifiableVC4TTPBidirectionalR1Subordination SUBORDINATION RULE
    SUPERIOR OBJECT CLASS
        "Recommendation G.774":modifiableVC4TTPBidirectionalR1;
    NAMES SUBORDINATES
        "Recommendation G.774":tug3Bidirectional,
        "Recommendation G.774.02":modifiableTug3Bidirectional,
        "Recommendation G.774":vcnUserChannelCTPSink,
        "Recommendation G.774":vcnUserChannelCTPSource,
        "Recommendation G.774":vcnUserChannelCTPBidirectional;
    ACCORDING TO RULE
    SET {
        SET SIZE(3) OF CHOICE {
            "Recommendation G.774":tug3Bidirectional,
            "Recommendation G.774.02":modifiableTug3Bidirectional },

```

```

        SET SIZE(1) OF CHOICE {
            "Recommendation G.774":vcnUserChannelCTPSink,
            "Recommendation G.774":vcnUserChannelCTPSource,
            "Recommendation G.774":vcnUserChannelCTPBidirectional }
    };
;

vc4TTPBidirectionalR1Subordination SUBORDINATION RULE
    SUPERIOR OBJECT CLASS
        "Recommendation G.774":vc4TTPBidirectionalR1;
    NAMES SUBORDINATES
        "Recommendation G.774":tug3Bidirectional,
        "Recommendation G.774.02":modifiableTug3Bidirectional,
        "Recommendation G.774":vcnUserChannelCTPSink,
        "Recommendation G.774":vcnUserChannelCTPSource,
        "Recommendation G.774":vcnUserChannelCTPBidirectional;
    ACCORDING TO RULE
        SET {
            SET SIZE(3) OF CHOICE {
                "Recommendation G.774":tug3Bidirectional,
                "Recommendation G.774.02":modifiableTug3Bidirectional },
            SET SIZE(1) OF CHOICE {
                "Recommendation G.774":vcnUserChannelCTPSink,
                "Recommendation G.774":vcnUserChannelCTPSource,
                "Recommendation G.774":vcnUserChannelCTPBidirectional }
        };
;

```

15 Supporting ASN.1 Productions

No revisions are required.

ITU-T RECOMMENDATIONS SERIES

Series A	Organization of the work of the ITU-T
Series B	Means of expression: definitions, symbols, classification
Series C	General telecommunication statistics
Series D	General tariff principles
Series E	Overall network operation, telephone service, service operation and human factors
Series F	Non-telephone telecommunication services
Series G	Transmission systems and media, digital systems and networks
Series H	Audiovisual and multimedia systems
Series I	Integrated services digital network
Series J	Transmission of television, sound programme and other multimedia signals
Series K	Protection against interference
Series L	Construction, installation and protection of cables and other elements of outside plant
Series M	Maintenance: international transmission systems, telephone circuits, telegraphy, facsimile and leased circuits
Series N	Maintenance: international sound programme and television transmission circuits
Series O	Specifications of measuring equipment
Series P	Telephone transmission quality, telephone installations, local line networks
Series Q	Switching and signalling
Series R	Telegraph transmission
Series S	Telegraph services terminal equipment
Series T	Terminals for telematic services
Series U	Telegraph switching
Series V	Data communication over the telephone network
Series X	Data networks and open system communication
Series Z	Programming languages