INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

G.774.01
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) performance monitoring for the network element view

Corrigendum 1

ITU-T Recommendation G.774.01 – Corrigendum 1

(Previously CCITT Recommendation)

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

ITU-T RECOMMENDATION G.774.01

SYNCHRONOUS DIGITAL HIERARCHY (SDH) PERFORMANCE MONITORING FOR THE NETWORK ELEMENT VIEW

CORRIGENDUM 1

Source

Corrigendum 1 to ITU-T Recommendation G.774.01 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.

CONTENTS

Recommendation G.774.01

**SYNCHRONOUS DIGITAL HIERARCHY (SDH) PERFORMANCE
MONITORING 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.774.01 (1994). All additions are marked in **bold** for clarity.

SDH Performance Monitoring Functions are used to monitor specified performance events of specified Termination Points managed objects and to report these performance data, as well as Quality Of Service Alarms to its managing system according to a given schedule.

Recommendation M.2120 defines maintenance of transport network, Recommendation G.784 defines the management of SDH-based network element. This Recommendation defines the object model based on Recommendation Q.822 according to the requirements described in Recommendations G.784 and M.2120. This model uses generic mechanism defined in Recommendation Q.822.

The new objects defined in this Recommendation supersede those defined in Recommendation G.774.01 (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.774.01 (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 Performance Management Model

5.1 Overview

No revisions are required.

5.2 Requirements

No revisions are required.

6 Managed Object Class Definitions

No revisions are required.

7 Package Definitions

8 Attributes definitions

No revisions are required.

9 Actions

No revisions are required.

10 Notifications

No revisions are required.

11 Parameters

No revisions are required.

12 Namebinding definitions

Revisions that require re-registration

This clause provides replacement namebinding definitions for the existing Recommendation G.774.01 (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.774.01 1994 namebinding "pathTerminationCurrentData-

vc4TTPSink", the revised label will become "pathTerminationCurrentData-vc4TTPSinkR1." Note the "R1" is placed immediately following the revised class which impacts the namebinding.

Below is a table of namebindings deprecated from Recommendation G.774.01 (1994) and the G.774.01 namebindings which replace them:

Deprecated G.774.01 1994 Namebindings
pathTerminationCurrentData-vc4TTPSink
pathTerminationCurrentData-vc3TTPSink
pathTerminationCurrentData-vc2TTPSink
pathTerminationCurrentData-vc12TTPSink
pathTerminationCurrentData-vc11TTPSink
pathTerminationCurrentDataTR-vc4TTPSink
pathTerminationCurrentDataTR-vc3TTPSink
pathTerminationCurrentDataTR-vc2TTPSink
pathTerminationCurrentDataTR-vc12TTPSink
pathTerminationCurrentDataTR-vc11TTPSink

Replacement G.774.01 Namebindings
pathTerminationCurrentData-vc4TTPSinkR1
pathTerminationCurrentData-vc3TTPSinkR1
pathTerminationCurrentData-vc2TTPSinkR1
pathTerminationCurrentData-vc12TTPSinkR1
pathTerminationCurrentData-vc11TTPSinkR1
pathTerminationCurrentDataTR-vc4TTPSinkR1
pathTerminationCurrentDataTR-vc3TTPSinkR1
pathTerminationCurrentDataTR-vc2TTPSinkR1
pathTerminationCurrentDataTR-vc12TTPSinkR1
pathTerminationCurrentDataTR-vc11TTPSinkR1

pathTerminationCurrentData-vc4TTPSinkR1 NAME BINDING
        SUBORDINATE OBJECT CLASS
"Recommendation G.774.01:1993":pathTerminationCurrentData AND SUBCLASSES;
        NAMED BY
                SUPERIOR OBJECT CLASS
                "Recommendation G.774":vc4TTPSinkR1 AND SUBCLASSES;
                WITH ATTRIBUTE   "Recommendation X.739 : 1993": scannerId;
        CREATE
                WITH-REFERENCE-OBJECT,
                WITH-AUTOMATIC-INSTANCE-NAMING;
        DELETE
                DELETES-CONTAINED-OBJECTS;
REGISTERED AS {g774-01NameBinding 23};

pathTerminationCurrentData-vc3TTPSinkR1 NAME BINDING
        SUBORDINATE OBJECT CLASS
"Recommendation G.774.01:1993":pathTerminationCurrentData AND SUBCLASSES;
        NAMED BY
                SUPERIOR OBJECT CLASS
                "Recommendation G.774":vc3TTPSinkR1 AND SUBCLASSES;
                WITH ATTRIBUTE "Recommendation X.739 : 1993": scannerId;
        CREATE
                WITH-REFERENCE-OBJECT,
                WITH-AUTOMATIC-INSTANCE-NAMING;
        DELETE
                DELETES-CONTAINED-OBJECTS;
REGISTERED AS {g774-01NameBinding 24 };

pathTerminationCurrentData-vc2TTPSinkR1 NAME BINDING
        SUBORDINATE OBJECT CLASS
"Recommendation G.774.01:1993":pathTerminationCurrentData AND SUBCLASSES;
        NAMED BY
                SUPERIOR OBJECT CLASS

"Recommendation G.774":vc2TTPSinkR1 AND SUBCLASSES;
        WITH ATTRIBUTE "Recommendation X.739 : 1993": scannerId;
    CREATE
        WITH-REFERENCE-OBJECT,
        WITH-AUTOMATIC-INSTANCE-NAMING;
    DELETE
        DELETES-CONTAINED-OBJECTS;
REGISTERED AS {g774-01NameBinding 25 };

pathTerminationCurrentData-vc12TTPSinkR1 NAME BINDING
    SUBORDINATE OBJECT CLASS
"Recommendation G.774.01:1993":pathTerminationCurrentData AND SUBCLASSES;
    NAMED BY
        SUPERIOR OBJECT CLASS
        "Recommendation G.774":vc12TTPSinkR1 AND SUBCLASSES;
        WITH ATTRIBUTE   "Recommendation X.739 : 1993": scannerId;
    CREATE
        WITH-REFERENCE-OBJECT,
        WITH-AUTOMATIC-INSTANCE-NAMING;
    DELETE
        DELETES-CONTAINED-OBJECTS;
REGISTERED AS {g774-01NameBinding 26 };

pathTerminationCurrentData-vc11TTPSinkR1 NAME BINDING
    SUBORDINATE OBJECT CLASS
"Recommendation G.774.01:1993":pathTerminationCurrentData AND SUBCLASSES;
    NAMED BY
        SUPERIOR OBJECT CLASS
        "Recommendation G.774":vc11TTPSinkR1 AND SUBCLASSES;
        WITH ATTRIBUTE "Recommendation X.739 : 1993": scannerId;
    CREATE
        WITH-REFERENCE-OBJECT,
        WITH-AUTOMATIC-INSTANCE-NAMING;
    DELETE
        DELETES-CONTAINED-OBJECTS;
REGISTERED AS {g774-01NameBinding 27 };

pathTerminationCurrentDataTR-vc4TTPSinkR1 NAME BINDING
    SUBORDINATE OBJECT CLASS
"Recommendation G.774.01:1993":pathTerminationCurrentDataTR AND SUBCLASSES;
    NAMED BY
        SUPERIOR OBJECT CLASS
        "Recommendation G.774":vc4TTPSinkR1 AND SUBCLASSES;
        WITH ATTRIBUTE "Recommendation X.739 : 1993": scannerId;
    CREATE
        WITH-REFERENCE-OBJECT,
        WITH-AUTOMATIC-INSTANCE-NAMING;
    DELETE
        DELETES-CONTAINED-OBJECTS;
REGISTERED AS {g774-01NameBinding 28 };

pathTerminationCurrentDataTR-vc3TTPSinkR1 NAME BINDING
    SUBORDINATE OBJECT CLASS
"Recommendation G.774.01:1993":pathTerminationCurrentDataTR AND SUBCLASSES;
    NAMED BY
        SUPERIOR OBJECT CLASS
        "Recommendation G.774":vc3TTPSinkR1 AND SUBCLASSES;
        WITH ATTRIBUTE "Recommendation X.739 : 1993": scannerId;
    CREATE
        WITH-REFERENCE-OBJECT,
        WITH-AUTOMATIC-INSTANCE-NAMING;
    DELETE
        DELETES-CONTAINED-OBJECTS;

REGISTERED AS {g774-01NameBinding 29 };

pathTerminationCurrentDataTR-vc2TTPSinkR1 NAME BINDING
        SUBORDINATE OBJECT CLASS
"Recommendation G.774.01:1993":pathTerminationCurrentDataTR AND SUBCLASSES;
        NAMED BY
                SUPERIOR OBJECT CLASS
                "Recommendation G.774":vc2TTPSinkR1 AND SUBCLASSES;
                WITH ATTRIBUTE "Recommendation X.739 : 1993": scannerId;
        CREATE
                WITH-REFERENCE-OBJECT,
                WITH-AUTOMATIC-INSTANCE-NAMING;
        DELETE
                DELETES-CONTAINED-OBJECTS;
REGISTERED AS {g774-01NameBinding 30 };

pathTerminationCurrentDataTR-vc12TTPSinkR1 NAME BINDING
        SUBORDINATE OBJECT CLASS
"Recommendation G.774.01:1993":pathTerminationCurrentDataTR AND SUBCLASSES;
        NAMED BY
                SUPERIOR OBJECT CLASS
                "Recommendation G.774":vc12TTPSinkR1 AND SUBCLASSES;
                WITH ATTRIBUTE "Recommendation X.739 : 1993": scannerId;
        CREATE
                WITH-REFERENCE-OBJECT,
                WITH-AUTOMATIC-INSTANCE-NAMING;
        DELETE
                DELETES-CONTAINED-OBJECTS;
REGISTERED AS {g774-01NameBinding 31 };

pathTerminationCurrentDataTR-vc11TTPSinkR1 NAME BINDING
        SUBORDINATE OBJECT CLASS
"Recommendation G.774.01:1993":pathTerminationCurrentDataTR AND SUBCLASSES;
        NAMED BY
                SUPERIOR OBJECT CLASS
                "Recommendation G.774":vc11TTPSinkR1 AND SUBCLASSES;
                WITH ATTRIBUTE "Recommendation X.739 : 1993": scannerId;
        CREATE
                WITH-REFERENCE-OBJECT,
                WITH-AUTOMATIC-INSTANCE-NAMING;
        DELETE
                DELETES-CONTAINED-OBJECTS;
        REGISTERED AS {g774-01NameBinding 32 };

13   Subordination Rules

No revisions are required.

14   Pointer Constraints

No revisions are required.

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

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Series N   Maintenance: international sound programme and television transmission circuits

Series O   Specifications of measuring equipment

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