INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

G.872

Amendment 1
(12/2003)

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

Digital networks – Optical transport networks

Architecture of optical transport networks

Amendment 1

ITU-T Recommendation G.872 (2001) – Amendment 1

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ITU-T Recommendation G.872

Architecture of optical transport networks

Amendment 1

Summary

This amendment includes corrections of errors and proposals converted into additional technical changes to ITU-T Rec. G.872 (11/2001).

Source

Amendment 1 to ITU-T Recommendation G.872 (2001) was approved on 14 December 2003 by ITU-T Study Group 15 (2001-2004) under the ITU-T Recommendation A.8 procedure.

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. 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 Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 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.

Compliance with this Recommendation is voluntary. However, the Recommendation may contain certain mandatory provisions (to ensure e.g. interoperability or applicability) and compliance with the Recommendation is achieved when all of these mandatory provisions are met. The words "shall" or some other obligatory language such as "must" and the negative equivalents are used to express requirements. The use of such words does not suggest that compliance with the Recommendation is required of any party.

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As of the date of approval of this Recommendation, ITU had 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.

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ITU-T Recommendation G.872

Architecture of optical transport networks

Amendment 1

1) Introduction

This amendment contains editorial corrections and technical amendments to ITU-T Rec. G.872 (version 11/2001).

2) Clause 5.3, Optical channel layer network

Replace the last sentence of the Note:

This hides the digital informational content from the underlying server (see clause 10 for implementation aspects of the optical channel).

By:

This hides the digital informational content from the underlying server (see clause 9 for implementation aspects of the optical channel).

3) Clause 6.2, Optical layer network management requirements

Replace in Table 1 the entry in row "connection supervision/inherent monitoring" and column "OTS":

R*

By:

–

(i.e., not applicable)

4) Clause 9.3, Optical channel layer network (OCh)

a) Replace the last sentence:

It supports in this case only a subset of the OCh management requirements defined in clause 7 (see Table 3).

By:

It supports in this case only a subset (see Table 3) of the OCh management requirements defined in clause 6.

b) Replace (only in the English version) in the title of Table 3:

Tableau 3

By:

Table 3

c) Replace in Table 3 the entry in row "management communications/operator-specific" and column "OTU":

R

By:

R*

d) Move Table 3 from clause 9.3 to clause 9.10.

5) Clause 9.11, Survivability techniques

Replace Table 4:

Protection technique	OTU layer	ODU layer
1+1 trail protection	A	NA
1:N trail protection	FFS	NA
1+1 SNC/N, SNC/S and SNC/I	NA	A
1:N SNC/S	NA	A
Shared protected ring	NA	A
A Applicable FFS For further study NA Not applicable		

By:

Protection technique	OTU layer	ODU layer
1+1 trail protection	NA (Note 1)	NA (Note 2)
1:N trail protection	NA (Note 1)	NA (Note 2)
1+1 SNC/N, SNC/S and SNC/I (Note 3)	NA	A
1:N SNC/S and SNC/I (Note 3)	NA	A
Shared protected ring	NA	A
A Applicable NA Not applicable NOTE 1 – If the payload of an OTU trail has to be protected, ODU SNC/I protection should be used. NOTE 2 – If the payload of an ODU trail has to be protected, ODU SNC/S or ODU SNC/N protection should be used. NOTE 3 – ODU SNC/I protection is defined to protect an ODUk link connection that is supported by a single OTUk trail. If an ODUk serial compound link connection (supported by two or more OTUk trails) is to be protected, ODUk SNC/N or ODUk SNC/S is to be used. If an ODUk link connection supported by a single ODUj (j > k) is to be protected, ODUk SNC/N or ODUk SNC/S protection is recommended; ODUk SNC/I could however be deployed as well.		

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