International Telecommunication Union

ITU-T G.870/Y.1352

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Amendment 1

(11/2009)

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Amendment 1

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Recommendation ITU-T G.870/Y.1352

Terms and definitions for optical transport networks (OTN)

Amendment 1

Summary

Amendment 1 to Recommendation ITU-T G.870/Y.1352 contains revised definitions of terms.

History

Edition	Recommendation	Approval	Study Group
1.0	ITU-T G.870/Y.1352	2004-06-13	15
1.1	ITU-T G.870/Y.1352 (2004) Amend. 1	2005-06-29	15
2.0	ITU-T G.870/Y.1352	2008-03-29	15
2.1	ITU-T G.870/Y.1352 (2008) Amend.1	2009-11-13	15

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications, information and communication technologies (ICTs). 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 not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementers are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database at http://www.itu.int/ITU-T/ipr/.

Recommendation ITU-T G.870/Y.1352

Terms and definitions for optical transport networks (OTN)

Amendment 1

1 Scope

This amendment contains revised definitions of three G.709-related OTN optical channel terms currently specified in clause 3 of Recommendation ITU-T G.870.

2 References

Replace the citations of Recommendations ITU-T G.709/Y.1331, ITU-T G.780/Y.1351, ITU-T G.806 and ITU-T G.7712/Y.1703 with the following citations:

[ITU-T G.709] Recommendation ITU-T G.709/Y.1331 (200~~3~~9), *Interfaces for the Optical Transport Network (OTN)*.

[ITU-T G.780] Recommendation ITU-T G.780/Y.1351 (200~~4~~8), *Terms and definitions for synchronous digital hierarchy (SDH) networks*.

[ITU-T G.806] Recommendation ITU-T G.806 (200~~6~~9), *Characteristics of transport equipment – Description methodology and generic functionality*.

[ITU-T G.7712] Recommendation ITU-T G.7712/Y.1703 (200~~3~~8), *Architecture and specification of data communication network.*

3 Definitions

Replace the definitions of the terms contained in clauses 3.2.61, 3.2.64 and 3.2.65 with the following revised definitions:

3.2.61 optical channel data unit (ODUk): The ODUk is an information structure consisting of the information payload (OPUk) and ODUk-related overhead. ODUk capacities for k = 0, k = 1, k = 2, k = 2e, k = 3, k = 4 are defined.

3.2.64 optical channel payload unit (OPUk): The OPUk is the information structure used to adapt client information for transport over an optical channel. It comprises client information together with any overhead needed to perform rate adaptation between the client signal rate and the OPUk payload rate and other OPUk overhead supporting the client signal transport. This overhead is adaptation-specific. OPUk capacities for k = 0, k = 1, k = 2, k = 2e, k = 3, k = 4 are defined.

3.2.65 optical channel transport unit (OTUk[V]): The OTUk is the information structure used for transport of an ODUk over one or more optical channel connections. It consists of the optical channel data unit and OTUk-related overhead (FEC and overhead for management of an optical channel connection). It is characterized by its frame structure, bit rate~~,~~ and bandwidth. OTUk capacities for k = 1, k = 2, k = 3, k = 4 are defined.

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

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