



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

G.806

Amendment 1
(03/2003)

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

Digital networks – General aspects

Characteristics of transport equipment – Description
methodology and generic functionality

Amendment 1

ITU-T Recommendation G.806 (2000) – Amendment 1

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ITU-T Recommendation G.806

Characteristics of transport equipment – Description methodology and generic functionality

Amendment 1

Summary

This amendment contains editorial and technical additions, to ITU-T Rec. G.806 (2000).

Source

Amendment 1 to ITU-T Recommendation G.806 (2000) was prepared by ITU-T Study Group 15 (2001-2004) and approved under the WTSA Resolution 1 procedure on 16 March 2003.

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.

INTELLECTUAL PROPERTY RIGHTS

ITU draws attention to the possibility that the practice or implementation of this Recommendation may involve the use of a claimed Intellectual Property Right. 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, ITU 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.

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ITU-T Recommendation G.806

Characteristics of transport equipment – Description methodology and generic functionality

Amendment 1

1) Clause 2

Add the following references at the end of the clause:

[18] ITU-T Rec. G.709/Y.1331 (2003), *Interfaces for the Optical Transport Network (OTN)*.

[19] ITU-T Rec. G.7041/Y.1303 (2001), *Generic Framing Procedure (GFP)*.

2) Addition to 6.2.1.3 on SSF behaviour

Add the following text at the end of the subclause:

dUNEQ shall be cleared during SSF conditions. A new evaluation period for dUNEQ shall start after SSF is cleared.

3) Addition to 6.2.2.2 on SSF behaviour

Add the following text at the end of the subclause:

dTIM shall be cleared during SSF conditions. A new evaluation period for dTIM shall start after SSF is cleared.

4) Addition to 6.2.3.1.1 on SSF behaviour

Add the following text at the end of the subclause:

dEXC and dDEG shall be cleared during SSF conditions. A new evaluation period for dEXC and dDEG shall start after SSF is cleared.

5) Addition to 6.2.3.1.2 on SSF behaviour

Add the following text at the end of the subclause:

dDEG shall be cleared during SSF conditions. A new evaluation period for dDEG shall start after SSF is cleared.

6) Add to 6.2.4.1 a reference to new Annex A

Add at the end of the subclause:

For assignment of payload types, see Annex A.

7) Change to 6.2.4.2 on TSF behaviour

Replace:

The defect shall be cleared during a TSF condition.

By:

dPLM shall be cleared during TSF conditions. A new evaluation period for dPLM shall start after TSF is cleared.

8) Change to 6.2.6.3 on SSF behaviour

Replace:

The defect shall be cleared during an SSF condition.

By:

dRDI/ODI shall be cleared during SSF conditions. A new evaluation period for dRDI/ODI shall start after SSF is cleared.

9) Change to 6.4.1 on SSF behaviour

Replace:

NOTE 1 – dUNEQ, dTIM, dDEG and dRDI are cleared during an SSF/TSF condition.

By:

NOTE 1 – dUNEQ, dTIM, dDEG, dEXC, dPLM and dRDI/ODI are cleared during an SSF condition.

10) Addition to 6.4.2 on TSF behaviour

Add the following text at the end of the clause:

NOTE 3 – dPLM is cleared during a TSF condition.

11) New Annex A

Add new Annex A:

Annex A

Assignment and use of Signal Label, Payload Type and User Payload Identifier codes

The SDH VC-n Signal Label (SL), OTN ODUk Payload Type (PT) and GFP User Payload Identifier (UPI) codes are used to identify the type and/or composition of the payload data within the VC-n, ODUk and GFP signals respectively.

ITU-T Recs G.707/Y.1322, G.709/Y.1331 and G.7041/Y.1303 define codes for standardized mappings. To accommodate new mapping development and proprietary mapping schemes, extra codes are reserved for these purposes.

A.1 Experimental code

The experimental code is used to progress development of new payload mappings.

During the development of the mapping, where a standardized code is required but not yet assigned, the experimental mapping code should be used to progress development. As the development matures, a new standardized code shall be requested from the ITU-T.

Once the new standard code is assigned to this new mapping and thus replacing the experimental value, the experimental code shall no longer be used for that mapping.

In the case where the ITU-T does not accept the new payload mapping for standardization, the vendor/operator intending to deploy the new payload mapping can assign a proprietary code to this new payload mapping.

A.2 Proprietary codes

The proprietary codes allow non-standard payload mappings to be supported. These proprietary codes are not subject to international standardization and can be used by any vendor and/or operator as needed. The selection of a code from any of the reserved proprietary codes is left for the user.

In the case where an initial proprietary payload mapping is accepted, at a later date, by the ITU-T as an additional standard payload mapping, a new standardized code will be assigned and thus replacing the original proprietary code. Additionally if interworking is intended, the proprietary code shall no longer be used for that mapping.

A.3 Request for standardized codes

Standardized codes are administered by the ITU-T. A request for new standardized codes shall be made to the study group responsible for the Recommendations which define the codes. The codes are assigned out of the set of codes that are reserved for future standardization when the new mappings are accepted.

The request for new codes shall be supported by description of the network applications of the new payload mappings and the required functional processing that need to be added to relevant Recommendations.

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