



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

G.8261/Y.1361

Amendment 1
(07/2010)

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

Packet over Transport aspects – Quality and availability
targets

SERIES Y: GLOBAL INFORMATION
INFRASTRUCTURE, INTERNET PROTOCOL ASPECTS
AND NEXT-GENERATION NETWORKS

Internet protocol aspects – Transport

Timing and synchronization aspects in packet
networks

Amendment 1

CAUTION !

PREPUBLISHED RECOMMENDATION

This prepublication is an unedited version of a recently approved Recommendation. It will be replaced by the published version after editing. Therefore, there will be differences between this prepublication and the published version.

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Amendment 1 to Recommendation ITU-T G.8261/Y.1361 (2008)

Timing and synchronization aspects in packet networks:

Amendment 1

Summary

Amendment 1 to ITU-T Recommendation G.8261/Y.1361 (2008) :

- Align the recommendation to the new G.826x document structure by moving the definitions into G.8260
- Defines the EEC Interface network jitter limits
- Clarifies some aspects related to reduced synchronous Ethernet function and to the EEC network limits
- Clarifies several aspects related to Appendix VI, Measurement guidelines for packet based methods

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Timing and synchronization aspects in packet networks:

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1 Clause 2 – References

Add the following references:

[ITU-T G.8260] ITU-T Recommendation G.8260 (2010), Definitions and terminology for synchronization in packet networks

[ITU-T G.8265] ITU-T Recommendation G.8265 (2010), Architecture and requirements for packet based frequency delivery

2 Clause 3 - Definitions

1) Add the following definitions in clause 3:

Packet based method - See [ITU-T G.8260]

Packet based method without timing support from the network: - See [ITU-T G.8260]

Packet based method with timing support from the network - See [ITU-T G.8260]

2) Replace

PNT-F - The Packet Network Timing Function is the set of functions within the IWF that supports the Synchronization Network Clock Domain (see Figure B.2/G.8261). This includes the function to recover and distribute the timing carried by the synchronization network. The PNT-F clocks may be part of the IWF or may be part of any other network element in the packet network.

When the PNT-F are part of the IWF they may support the CES IWF and/or change the layer over which timing is carried (i.e., from packet to physical layer and vice versa).

With

PNT-F – See [ITU-T G.8260]

3) Replace

Adaptive clock recovery – Clock recovery technique that does not require the support of a network-wide synchronization signal to regenerate the timing. In this case the timing recovery