International Telecommunication Union

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Q.838.1
Amendment 1
(07/2021)

SERIES Q: SWITCHING AND SIGNALLING, AND ASSOCIATED MEASUREMENTS AND TESTS

Q3 interface

Requirements and analysis for the management interface of Ethernet Passive Optical Networks (EPON)

Amendment 1: Replace the reference to IEEE 802.1D by IEEE 802.1Q

Recommendation ITU-T Q.838.1 (2004) – Amendment 1

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Recommendation ITU-T Q.838.1

Requirements and analysis for the management interface of Ethernet Passive Optical Networks (EPON)

Amendment 1

Replace the reference to IEEE 802.1D by IEEE 802.1Q

Summary

IEEE has withdrawn IEEE 802.1D, which has been completely subsumed in IEEE 802.1Q. Amendment 1updates Recommendation ITU-T Q.838.1 by adding the reference IEEE 802.1Q-2018, and making the corresponding changes in the text.

History

Edition	Recommendation	Approval	Study Group	Unique ID[*]
1.0	ITU-T Q.838.1	2004-10-07	4	11.1002/1000/7388
1.1	ITU-T Q.838.1 (2004) Amd. 1	2021-07-14	2	11.1002/1000/14743

Keywords

IEEE 802.1D, IEEE 802.1Q.

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[*] To access the Recommendation, type the URL http://handle.itu.int/ in the address field of your web browser, followed by the Recommendation's unique ID. For example, http://handle.itu.int/11.1002/1000/11830-en.

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Recommendation ITU-T Q.838.1

Requirements and analysis for the management interface of Ethernet Passive Optical Networks (EPON)

Amendment 1

Replace the reference to IEEE 802.1D by IEEE 802.1Q

1)   Clause 2, References

Replace the following references in the References clause:

[23]   IEEE 802.1D-2004, *IEEE standard for local and metropolitan area networks: Media Access Control (MAC) bridges*.

[24]   IEEE 802.1Q-2003, *IEEE standard for local and metropolitan area networks: Virtual bridged local area networks*.

by the following reference:

[23]   *Not used*

[24]   IEEE 802.1Q-2018, *IEEE Standard for Local and Metropolitan Area Networks – Bridges and Bridged Networks*.

2)   Clause 7.3.1.21, MACBridgeMatrixSpanningTreeE

Replace the following sentence in the Description column for the attribute maxAge:

The range is 6 s to 40 s in accordance with IEEE 802.1D [23].

By the following:

The range is 6 s to 40 s in accordance with IEEE 802.1Q-2018 [24].

3)   Clause 7.3.1.21, MACBridgeMatrixSpanningTreeE

Replace the following sentence in the Description column for the attribute helloTime:

The range is 1 s to 10 s in accordance with IEEE 802.1D.

By the following:

The range is 1 s to 10 s in accordance with IEEE 802.1Q-2018 [24].

4)   Clause 7.3.1.21, MACBridgeMatrixSpanningTreeE

Replace the following sentence in the Description column for the attribute forwardDelay:

The range is 4 s to 30 s in accordance with IEEE 802.1D.

By the following:

The range is 4 s to 30 s in accordance with IEEE 802.1Q-2018 [24].

5)   Clause 7.3.1.24, MACBridgePortSpanningTreeE

Replace the following sentence in the Description column for the attribute designatedBridgeRootCostPort:

This attribute provides the root Bridge, designated bridge, designated port and designated cost, based on the outputs of the "Read port parameters" operation defined in 14.8.2.1 of IEEE 802.1D, i.e.:

By the following:

This attribute provides the root Bridge, designated bridge, designated port and designated cost, based on the outputs of the "Read MSTI Port Parameters" operation defined in 12.8.2.2 of IEEE 802.1Q-2018 [24], i.e.:

6)   Clause 7.3.1.24, MACBridgePortSpanningTreeE

Replace the following sentence in the Description column for the attribute portState:

This attribute provides status information on the port. Valid values include "disabled", "listening", "learning", "forwarding", "blocking", "linkdown", and "stp_off" in accordance with IEEE 802.1D.

By the following:

This attribute provides status information on the port. Valid values include "disabled", "listening", "learning", "forwarding", "blocking", "linkdown", and "stp_off" in accordance with IEEE 802.1Q-2018 [24].

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