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Standard

**ISO/IEC/IEEE
8802-1Q**

**Telecommunications and exchange
between information technology
systems — Requirements for local
and metropolitan area networks —**

**Part 1Q:
Bridges and bridged networks**

**AMENDMENT 40: YANG for the
multiple spanning tree protocol**

*Télécommunications et échange entre systèmes informatiques —
Exigences pour les réseaux locaux et métropolitains —*

Partie 1Q: Ponts et réseaux pontés

*AMENDEMENT 40: YANG pour protocole MST (arbre de
recouvrement multiple)*

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IEEE Std 802.1Qdy™-2025

(Amendment to IEEE Std 802.1Q™-2022
as amended by IEEE Std 802.1Qcz™-2023,
IEEE Std 802.1Qcw™-2023,
IEEE Std 802.1Qcj™-2023,
IEEE Std 802.1Qdj™-2024,
and IEEE Std 802.1Qdx™-2024)

**IEEE Standard for
Local and Metropolitan Area Networks—
Bridges and Bridged Networks**

**Amendment 40:
YANG for the Multiple Spanning Tree
Protocol**

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Developed by the

LAN/MAN Standards Committee
of the
IEEE Computer Society

Approved 12 February 2025

IEEE SA Standards Board

Abstract: This amendment to IEEE Std 802.1Q-2022 as amended by IEEE Std 802.1Qcz-2023, IEEE Std 802.1Qcw-2023, IEEE Std 802.1Qcj-2023, IEEE Std 802.1Qdj-2024, and IEEE Std 802.1Qdx-2024 addresses Multiple Spanning Tree Protocol (MSTP) requirements arising from industrial automation networks. It specifies YANG for Bridge and Bridge component RSTP as well as MSTP configuration and status reporting.

Keywords: amendment, Bridged Network, IEEE 802.1Q™, IEEE 802.1Qdy™, LAN, local area network, MAC Bridge, metropolitan area network, MIB, MSTP, Multiple Spanning Tree Protocol, Rapid Spanning Tree Protocol, RSTP, Virtual Bridged Network, virtual LAN, VLAN Bridge, YANG

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Introduction

This introduction is not part of IEEE Std 802.1Qdy™-2025, IEEE Standard for Local and Metropolitan Area Networks—Bridges and Bridged Networks—Amendment 40: YANG for the Multiple Spanning Tree Protocol.

IEEE Std 802.1Qdy™-2025: YANG for the Multiple Spanning Tree Protocol addresses requirements arising from industrial automation networks, specifying YANG for Bridge and Bridge component MSTP configuration and status reporting.

This standard contains state-of-the-art material. The area covered by this standard is undergoing evolution. Revisions are anticipated within the next few years to clarify existing material, to correct possible errors, and to incorporate new related material. Information on the current revision state of this and other IEEE 802 standards may be obtained from:

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Contents

5.	Conformance.....	14
5.1	VLAN Bridge component requirements.....	14
5.4.1	VLAN Bridge component options	14
13.	Spanning tree protocols	15
13.25	State machine timers	15
48.	YANG Data Models	16
48.2	IEEE 802.1Q YANG models.....	16
48.2.14	Rapid Spanning Tree Protocol (RSTP) model	16
48.2.15	Multiple Spanning Tree Protocol (MSTP) model	17
48.3	Structure of the YANG models	18
48.3.14	RSTP model	18
48.3.15	MSTP model	18
48.4	Security considerations	20
48.4.14	Security considerations of the RSTP model	20
48.4.15	Security considerations of the MSTP model	20
48.5	YANG schema tree definitions.....	21
48.5.26	Schema for the ieee802-dot1q-rstp YANG module	21
48.5.27	Schema for the ieee802-dot1q-rstp-bridge YANG module	21
48.5.28	Schema for the ieee802-dot1q-mstp YANG module	22
48.5.29	Schema for the ieee802-dot1q-mstp-bridge YANG module	22
48.6	YANG modules	24
48.6.26	The ieee802-dot1q-rstp YANG module	24
48.6.27	The ieee802-dot1q-rstp-bridge YANG module	34
48.6.28	The ieee802-dot1q-mstp YANG module	35
48.6.29	The ieee802-dot1q-mstp-bridge YANG module	42
Annex A (normative)	PICS proforma—Bridge implementations	44
A.47	YANG.....	44

Figures

Figure 48-24	RSTP model	16
Figure 48-25	MSTP model	17

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