

FINAL
DRAFT

INTERNATIONAL
STANDARD

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IEEE/FDIS
8802-1Q

ISO/IEC JTC 1/SC 6

Secretariat: KATS

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2020-05-04

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

Part 1Q: Bridges and bridged networks

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

Partie 1Q: Ponts et réseaux pontés

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ISO/IEC/IEEE 8802-1Q was prepared by the LAN/MAN of the IEEE Computer Society (as IEEE Std 802.1Q-2018) and drafted in accordance with its editorial rules. It was adopted, under the “fast-track procedure” defined in the Partner Standards Development Organization cooperation agreement between ISO and IEEE, by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*.

This second edition cancels and replaces the first edition (ISO/IEC/IEEE 8802-1Q:2016), which has been technically revised. It also incorporates the Amendments ISO/IEC/IEEE 8802-1Q:2016/Amd.1:2017, ISO/IEC/IEEE 8802-1Q:2016/Amd.2:2018, ISO/IEC/IEEE 8802-1Q:2016/Amd.3:2017, ISO/IEC/IEEE 8802-1Q:2016/Amd.4:2017, ISO/IEC/IEEE 8802-1Q:2016/Amd.5:2017, ISO/IEC/IEEE 8802-1Q:2016/Amd.6:2019, ISO/IEC/IEEE 8802-1Q:2016/Amd.7:2019 and the Corrigendum ISO/IEC/IEEE 8802-1Q:2016/Cor.1:2017.

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IEEE Std 802.1Q™-2018
(Revision of
IEEE Std 802.1Q-2014)

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

Sponsor

**LAN/MAN Standards Committee
of the
IEEE Computer Society**

Approved 7 May 2018

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Abstract: This standard specifies how the Media Access Control (MAC) Service is supported by Bridged Networks, the principles of operation of those networks, and the operation of MAC Bridges and VLAN Bridges, including management, protocols, and algorithms.

Keywords: Bridged Network, IEEE 802.1Q™, LAN, local area network, MAC Bridge, metropolitan area network, MSTP, Multiple Spanning Tree Protocol, Rapid Spanning Tree Protocol, RSTP, PBN, Provider Bridged Network, Shortest Path Bridging Protocol, SPB Protocol, Time-Sensitive Networking, TSN, Virtual Bridged Network, virtual LAN, VLAN Bridge

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IEEE Std 802.1ad-2005	28 March 2005	Tony Jeffree , <i>Chair</i> Paul Congdon , <i>Vice Chair</i> Mick Seaman , <i>Chair, Interworking Task Group</i> Stephen R. Haddock , <i>Editor</i>
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