

INTERNATIONAL
STANDARD

ISO/IEC/
IEEE
8802-1Q

Second edition
2020-08

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

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

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

Partie 1Q: Ponts et réseaux pontés

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Reference number
ISO/IEC/IEEE 8802-1Q:2020(E)

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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**

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Approved 7 May 2018

IEEE-SA Standards Board

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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PDF: ISBN 978-1-5044-4929-8 STD23139
Print: ISBN 978-1-5044-4930-4 STDPD23139

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IEEE Std 802.1Qbg-2012	14 May 2012	Tony Jeffree , <i>Chair and Editor</i> Paul Congdon , <i>Vice Chair</i> Patricia Thaler , <i>Chair, Data Center Bridging Task Group</i> Paul Bottorff , <i>Editor, Clauses 12 and 17</i>
IEEE Std 802.1Q-2011/Cor-2-2012	19 October 2012	Tony Jeffree , <i>Chair and Editor</i> Glenn Parsons , <i>Vice Chair and Chair, Maintenance Task Group</i>
IEEE Std 802.1Qbp-2014	27 March 2014	Tony Jeffree , <i>Chair</i> Glenn Parsons , <i>Vice Chair</i> Stephen Haddock , <i>Chair, Interworking Task Group</i> Ben Mack-Crane , <i>Editor</i>

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IEEE 802.1Q Standard	Date approved by IEEE	Officers at the time of Working Group Letter Ballot
IEEE Std 802.1D-2004	9 February 2004	Tony Jeffree , <i>Chair and Editor</i> Paul Congdon , <i>Vice Chair</i> Mick Seaman , <i>Chair, Interworking Task Group and Editor</i>
IEEE Std 802.1D-2004	3 November 2014	Glenn Parsons , <i>Chair</i> John Messenger , <i>Vice-Chair</i> Tony Jeffree , <i>Editor</i> Stephen Haddock , <i>Chair, Interworking Task Group</i>
IEEE Std 802.1Qcd-2015	16 February 2015	Glenn Parsons , <i>Chair</i> John Messenger , <i>Vice Chair</i> Patricia Thaler , <i>Chair, Data Center Bridging Task Group</i> Eric Multanen , <i>Editor</i>
IEEE Std 802.1Qca-2015	3 September 2015	Glenn Parsons , <i>Chair</i> John Messenger , <i>Vice-Chair</i> János Farkas , <i>Editor</i> Stephen Haddock , <i>Chair, Interworking Task Group</i>
IEEE Std 802.1Q-2014/ Cor 1-2015	5 December 2015	Glenn Parsons , <i>Chair</i> John Messenger , <i>Vice-Chair and Chair, Maintenance Task Group</i> Tony Jeffree , <i>Editor</i>
IEEE Std 802.1Qbv-2015	5 December 2015	Glenn Parsons , <i>Chair</i> John Messenger , <i>Vice-Chair</i> Michael Johas Teener , <i>Chair, Time Sensitive Networking Task Group</i> Tony Jeffree , <i>Editor</i>
IEEE Std 802.1Qbu-2016	30 June 2016	Glenn Parsons , <i>Chair</i> John Messenger , <i>Vice-Chair</i> Michael Johas Teener , <i>Chair, Time Sensitive Networking Task Group</i> Tony Jeffree , <i>Editor</i>
IEEE Std 802.1Qbz-2016	30 June 2016	Glenn Parsons , <i>Chair</i> John Messenger , <i>Vice-Chair</i> Michael Johas Teener , <i>Chair, Time Sensitive Networking Task Group</i> Norm Finn , <i>Editor</i>
IEEE Std 802.1Qci-2017	14 February 2017	Glenn Parsons , <i>Chair</i> John Messenger , <i>Vice-Chair</i> János Farkas , <i>Chair, Time Sensitive Networking Task Group</i> Tony Jeffree , <i>Editor</i>
IEEE Std 802.1Qch-2017	15 May 2017	Glenn Parsons , <i>Chair</i> John Messenger , <i>Vice-Chair</i> János Farkas , <i>Chair, Time Sensitive Networking Task Group</i> Tony Jeffree , <i>Editor</i>

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