



International
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**

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

Partie 1Q: Ponts et réseaux pontés

**Third edition
2024-08**

<https://standards.iteh.ai/catalog/standards/iso/88a5546e-e671-4cf5-88e5-04582478f4de/iso-iec-ieee-8802-1q-2024>

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[ISO/IEC/IEEE 8802-1Q:2024](https://standards.iteh.ai/catalog/standards/iso/88a5546e-e671-4cf5-88e5-04582478f4de/iso-iec-ieee-8802-1q-2024)

<https://standards.iteh.ai/catalog/standards/iso/88a5546e-e671-4cf5-88e5-04582478f4de/iso-iec-ieee-8802-1q-2024>



COPYRIGHT PROTECTED DOCUMENT

© IEEE 2022

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from IEEE at the address below.

Institute of Electrical and Electronics Engineers, Inc
3 Park Avenue, New York
NY 10016-5997, USA

Email: stds.ipr@ieee.org
Website: www.ieee.org

Published in Switzerland

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives or www.iec.ch/members_experts/refdocs).

IEEE Standards documents are developed within the IEEE Societies and the Standards Coordinating Committees of the IEEE Standards Association (IEEE-SA) Standards Board. The IEEE develops its standards through a consensus development process, approved by the American National Standards Institute, which brings together volunteers representing varied viewpoints and interests to achieve the final product. Volunteers are not necessarily members of the Institute and serve without compensation. While the IEEE administers the process and establishes rules to promote fairness in the consensus development process, the IEEE does not independently evaluate, test, or verify the accuracy of any of the information contained in its standards.

ISO and IEC draw attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO and IEC take no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO and IEC had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents and <https://patents.iec.ch>. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html. In the IEC, see www.iec.ch/understanding-standards.

ISO/IEC/IEEE 8802-1Q was prepared by the LAN/MAN of the IEEE Computer Society (as IEEE Std 802.1Q-2022) 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 third edition cancels and replaces the second edition (ISO/IEC/IEEE 8802-1Q:2020), which has been technically revised. It also incorporates the Amendments: ISO/IEC/IEEE 8802-1Q:2020/Amd 2:2021, ISO/IEC/IEEE 8802-1Q:2020/Amd 3:2021, ISO/IEC/IEEE 8802-1Q:2020/Amd 31:2021.

A list of all parts in the ISO/IEC/IEEE 8802 series can be found on the ISO and IEC websites.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html and www.iec.ch/national-committees.

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

[ISO/IEC/IEEE 8802-1Q:2024](https://standards.itih.ai/catalog/standards/iso/88a5546e-e671-4cf5-88e5-04582478f4de/iso-iec-ieee-8802-1q-2024)

<https://standards.itih.ai/catalog/standards/iso/88a5546e-e671-4cf5-88e5-04582478f4de/iso-iec-ieee-8802-1q-2024>

IEEE Std 802.1Q™-2022
(Revision of IEEE Std 802.1Q-2018)

**IEEE Standard for
Local and metropolitan area networks—
Bridges and Bridged Networks**

LAN/MAN Standards Committee
of the
IEEE Computer Society

iTeh Standards

(<https://standards.iteh.ai>)
Document Preview

[ISO/IEC/IEEE 8802-1Q:2024](https://standards.iteh.ai/88a5546e-e671-4cf5-88e5-04582478f4de/iso-iec-ieee-8802-1q-2024)

<https://standards.iteh.ai/88a5546e-e671-4cf5-88e5-04582478f4de/iso-iec-ieee-8802-1q-2024>

Approved 21 September 2022

IEEE SA Standards Board

ISO/IEC/IEEE 8802-1Q:2024(en)

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, PBN, Provider Bridged Network, Rapid Spanning Tree Protocol, RSTP, Shortest Path Bridging Protocol, SPB Protocol, Time-Sensitive Networking, TSN, Virtual Bridged Network, virtual LAN, VLAN Bridge

iTeh Standards (<https://standards.iteh.ai>) Document Preview

[ISO/IEC/IEEE 8802-1Q:2024](https://standards.iteh.ai/catalog/standards/iso/8802-1Q:2024)

<https://standards.iteh.ai/catalog/standards/iso/8802-1Q:2024>

The Institute of Electrical and Electronics Engineers, Inc.
3 Park Avenue, New York, NY 10016-5997, USA

Copyright © 2022 by the Institute of Electrical and Electronics Engineers, Inc.
All rights reserved. Published 22 December 2022. Printed in the United States of America.

IEEE and 802 are registered trademarks in the U.S. Patent & Trademark Office, owned by the Institute of Electrical and Electronics Engineers, Incorporated.

PDF: ISBN 978-1-5044-9188-4 STD25783
Print: ISBN 978-1-5044-9189-1 STDPD25783

IEEE prohibits discrimination, harassment, and bullying.

For more information, visit <http://www.ieee.org/web/aboutus/whatis/policies/p9-26.html>.

No part of this publication may be reproduced in any form, in an electronic retrieval system or otherwise, without the prior written permission of the publisher.

Important Notices and Disclaimers Concerning IEEE Standards Documents

IEEE Standards documents are made available for use subject to important notices and legal disclaimers. These notices and disclaimers, or a reference to this page (<https://standards.ieee.org/ipr/disclaimers.html>), appear in all standards and may be found under the heading “Important Notices and Disclaimers Concerning IEEE Standards Documents.”

Notice and Disclaimer of Liability Concerning the Use of IEEE Standards Documents

IEEE Standards documents are developed within IEEE Societies and subcommittees of IEEE Standards Association (IEEE SA) Board of Governors. IEEE develops its standards through an accredited consensus development process, which brings together volunteers representing varied viewpoints and interests to achieve the final product. IEEE Standards are documents developed by volunteers with scientific, academic, and industry-based expertise in technical working groups. Volunteers are not necessarily members of IEEE or IEEE SA and participate without compensation from IEEE. While IEEE administers the process and establishes rules to promote fairness in the consensus development process, IEEE does not independently evaluate, test, or verify the accuracy of any of the information or the soundness of any judgments contained in its standards.

IEEE makes no warranties or representations concerning its standards, and expressly disclaims all warranties, express or implied, concerning this standard, including but not limited to the warranties of merchantability, fitness for a particular purpose and non-infringement. In addition, IEEE does not warrant or represent that the use of the material contained in its standards is free from patent infringement. IEEE standards documents are supplied “AS IS” and “WITH ALL FAULTS.”

Use of an IEEE standard is wholly voluntary. The existence of an IEEE Standard does not imply that there are no other ways to produce, test, measure, purchase, market, or provide other goods and services related to the scope of the IEEE standard. Furthermore, the viewpoint expressed at the time a standard is approved and issued is subject to change brought about through developments in the state of the art and comments received from users of the standard.

In publishing and making its standards available, IEEE is not suggesting or rendering professional or other services for, or on behalf of, any person or entity, nor is IEEE undertaking to perform any duty owed by any other person or entity to another. Any person utilizing any IEEE Standards document, should rely upon his or her own independent judgment in the exercise of reasonable care in any given circumstances or, as appropriate, seek the advice of a competent professional in determining the appropriateness of a given IEEE standard.

IN NO EVENT SHALL IEEE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO: THE NEED TO PROCURE SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE PUBLICATION, USE OF, OR RELIANCE UPON ANY STANDARD, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE AND REGARDLESS OF WHETHER SUCH DAMAGE WAS FORESEEABLE.

Translations

The IEEE consensus development process involves the review of documents in English only. In the event that an IEEE standard is translated, only the English version published by IEEE is the approved IEEE standard.

Official statements

A statement, written or oral, that is not processed in accordance with the IEEE SA Standards Board Operations Manual shall not be considered or inferred to be the official position of IEEE or any of its committees and shall not be considered to be, nor be relied upon as, a formal position of IEEE. At lectures, symposia, seminars, or educational courses, an individual presenting information on IEEE standards shall make it clear that the presenter's views should be considered the personal views of that individual rather than the formal position of IEEE, IEEE SA, the Standards Committee, or the Working Group. Statements made by volunteers may not represent the formal position of their employer(s) or affiliation(s).

Comments on standards

Comments for revision of IEEE Standards documents are welcome from any interested party, regardless of membership affiliation with IEEE or IEEE SA. However, **IEEE does not provide interpretations, consulting information, or advice pertaining to IEEE Standards documents.**

Suggestions for changes in documents should be in the form of a proposed change of text, together with appropriate supporting comments. Since IEEE standards represent a consensus of concerned interests, it is important that any responses to comments and questions also receive the concurrence of a balance of interests. For this reason, IEEE and the members of its Societies and subcommittees of the IEEE SA Board of Governors are not able to provide an instant response to comments, or questions except in those cases where the matter has previously been addressed. For the same reason, IEEE does not respond to interpretation requests. Any person who would like to participate in evaluating comments or in revisions to an IEEE standard is welcome to join the relevant IEEE working group. You can indicate interest in a working group using the Interests tab in the Manage Profile & Interests area of the [IEEE SA myProject system](https://standards.ieee.org/myproject-system).¹ An IEEE Account is needed to access the application.

Comments on standards should be submitted using the [Contact Us](#) form.²

Laws and regulations

Users of IEEE Standards documents should consult all applicable laws and regulations. Compliance with the provisions of any IEEE Standards document does not constitute compliance to any applicable regulatory requirements. Implementers of the standard are responsible for observing or referring to the applicable regulatory requirements. IEEE does not, by the publication of its standards, intend to urge action that is not in compliance with applicable laws, and these documents may not be construed as doing so.

Data privacy

Users of IEEE Standards documents should evaluate the standards for considerations of data privacy and data ownership in the context of assessing and using the standards in compliance with applicable laws and regulations.

¹ Available at: <https://development.standards.ieee.org/myproject-web/public/view.html#landing>.

² Available at: <https://standards.ieee.org/content/ieee-standards/en/about/contact/index.html>.

Copyrights

IEEE draft and approved standards are copyrighted by IEEE under US and international copyright laws. They are made available by IEEE and are adopted for a wide variety of both public and private uses. These include both use, by reference, in laws and regulations, and use in private self-regulation, standardization, and the promotion of engineering practices and methods. By making these documents available for use and adoption by public authorities and private users, neither IEEE nor its licensors waive any rights in copyright to the documents.

Photocopies

Subject to payment of the appropriate licensing fees, IEEE will grant users a limited, non-exclusive license to photocopy portions of any individual standard for company or organizational internal use or individual, non-commercial use only. To arrange for payment of licensing fees, please contact Copyright Clearance Center, Customer Service, 222 Rosewood Drive, Danvers, MA 01923 USA; +1 978 750 8400; <https://www.copyright.com/>. Permission to photocopy portions of any individual standard for educational classroom use can also be obtained through the Copyright Clearance Center.

Updating of IEEE Standards documents

Users of IEEE Standards documents should be aware that these documents may be superseded at any time by the issuance of new editions or may be amended from time to time through the issuance of amendments, corrigenda, or errata. An official IEEE document at any point in time consists of the current edition of the document together with any amendments, corrigenda, or errata then in effect.

Every IEEE standard is subjected to review at least every 10 years. When a document is more than 10 years old and has not undergone a revision process, it is reasonable to conclude that its contents, although still of some value, do not wholly reflect the present state of the art. Users are cautioned to check to determine that they have the latest edition of any IEEE standard.

In order to determine whether a given document is the current edition and whether it has been amended through the issuance of amendments, corrigenda, or errata, visit [IEEE Xplore](#) or [contact IEEE](#).³ For more information about the IEEE SA or IEEE's standards development process, visit the IEEE SA Website.

Errata

Errata, if any, for all IEEE standards can be accessed on the [IEEE SA Website](#).⁴ Search for standard number and year of approval to access the web page of the published standard. Errata links are located under the Additional Resources Details section. Errata are also available in [IEEE Xplore](#). Users are encouraged to periodically check for errata.

Patents

IEEE Standards are developed in compliance with the [IEEE SA Patent Policy](#).⁵

Attention is called to the possibility that implementation of this standard may require use of subject matter covered by patent rights. By publication of this standard, no position is taken by the IEEE with respect to the existence or validity of any patent rights in connection therewith. If a patent holder or patent applicant has

³ Available at: <https://ieeexplore.ieee.org/browse/standards/collection/ieee>.

⁴ Available at: <https://standards.ieee.org/standard/index.html>.

⁵ Available at: <https://standards.ieee.org/about/sasb/patcom/materials.html>.

ISO/IEC/IEEE 8802-1Q:2024(en)

filed a statement of assurance via an Accepted Letter of Assurance, then the statement is listed on the IEEE SA Website at <https://standards.ieee.org/about/sasb/patcom/patents.html>. Letters of Assurance may indicate whether the Submitter is willing or unwilling to grant licenses under patent rights without compensation or under reasonable rates, with reasonable terms and conditions that are demonstrably free of any unfair discrimination to applicants desiring to obtain such licenses.

Essential Patent Claims may exist for which a Letter of Assurance has not been received. The IEEE is not responsible for identifying Essential Patent Claims for which a license may be required, for conducting inquiries into the legal validity or scope of Patents Claims, or determining whether any licensing terms or conditions provided in connection with submission of a Letter of Assurance, if any, or in any licensing agreements are reasonable or non-discriminatory. Users of this standard are expressly advised that determination of the validity of any patent rights, and the risk of infringement of such rights, is entirely their own responsibility. Further information may be obtained from the IEEE Standards Association.

IMPORTANT NOTICE

IEEE Standards do not guarantee or ensure safety, security, health, or environmental protection, or ensure against interference with or from other devices or networks. IEEE Standards development activities consider research and information presented to the standards development group in developing any safety recommendations. Other information about safety practices, changes in technology or technology implementation, or impact by peripheral systems also may be pertinent to safety considerations during implementation of the standard. Implementers and users of IEEE Standards documents are responsible for determining and complying with all appropriate safety, security, environmental, health, and interference protection practices and all applicable laws and regulations.

(<https://standards.iteh.ai>)
Document Preview

[ISO/IEC/IEEE 8802-1Q:2024](https://standards.iteh.ai/catalog/standards/iso/8802-1q-2024)

<https://standards.iteh.ai/catalog/standards/iso/8802-1q-2024>

Participants

At the time this standard was submitted to the IEEE-SA Standards Board for approval, the IEEE 802.1 Working Group had the following membership:

Glenn Parsons, *Chair*
Jessy V. Rouyer, *Vice Chair*
John Messenger, *Editor*
Mick Seaman, *Editor*

Astrit Ademaj
Venkat Arunarthi
Ralf Assmann
Huajie Bao
Rudy Belliardi
Christian Boiger
Paul Bottorff
Radhakrishna Canchi
Feng Chen
Abhijit Choudhury
Paul Congdon
Rodney Cummings
Josef Dorr
Hesham M. Elbakoury
Anna Engelmann
Thomas Enzinger
János Farkas
Donald W. Fedyk
Norman Finn
Geoffrey Garner
Amrit Gopal
Craig Gunther
Marina Gutierrez
Stephen Haddock
Mark Hantel

Jerome Henry
Marc Holness
Daniel Hopf
Woojung Huh
Satoko Itaya
Yoshihiro Ito
Michael Karl
Stephan Kehrer
Randy Kelsey
Marcel Kiessling
Gavin Lai
Joao Lopes
Lily Lv
Christophe Mangin
Scott Mansfield
Olaf Mater
David McCall
Larry McMillan
Hiroki Nakano
Don Pannell
Razvan Petre
Michael Potts
Dieter Proell
Karen Randall
Maximilian Riegel

Silvana Rodrigues
Atsushi Sato
Frank Schewe
Maik Seewald
Ramesh Sivakolundu
Johannes Specht
Marius Stanica
Guenter Steindl
Nemanja Stamenic
Karim Traore
Max Turner
Balazs Varga
Ganesh Venkatesan
Xinyuan Wang
Tongtong Wang
Karl Weber
Leon Wessels
Ludwig Winkel
Jordon Woods
Takahiro Yamaura
Yue Yin
Uwe Zeier
Nader Zein
William Zhao
Helge Zinner

ISO/IEC/IEEE 8802-1Q:2024(en)

The following members of the individual balloting committee voted on this standard. Balloters may have voted for approval, disapproval, or abstention.

| | | |
|------------------|--------------------|---------------------|
| Robert Aiello | Raj Jain | R. K. Rannow |
| Thomas Alexander | Pranav Jha | Alon Regev |
| Harry Bims | Lokesh Kabra | Maximilian Riegel |
| Christian Boiger | Piotr Karocki | Jessy V. Rouyer |
| Rich Boyer | Stephan Kehrer | Peter Saunderson |
| Vern Brethour | Randy Kelsey | Frank Schewe |
| William Byrd | Stuart Kerry | Mick Seaman |
| Paul Cardinal | Evgeny Khorov | Johannes Specht |
| Juan Carreon | Yongbum Kim | Guenter Steindl |
| Pin Chang | Jeff Koftinoff | Eugene Stoudenmire |
| Diego Chiozzi | Gavin Lai | Walter Struppler |
| Paul Congdon | Hyeong Ho Lee | Mitsutoshi Sugawara |
| Michael Cowan | James Lepp | Bo Sun |
| János Farkas | Joseph Levy | David Tepen |
| Avraham Freedman | Christophe Mangin | David Tremblay |
| Craig Gunther | Scott Mansfield | Max Turner |
| Stephen Haddock | Roger Marks | John Vergis |
| Mark Hantel | Stephen McCann | Stephen Webb |
| Jerome Henry | Jonathon McLendon | Karl Weber |
| Marco Hernandez | Satoshi Obara | Scott Willy |
| Werner Hoelzl | Glenn Parsons | Andreas Wolf |
| Oliver Holland | Arumugam Paventhan | Dayin Xu |
| Marc Holness | Clinton Powell | Yu Yuan |
| Yoshihiro Ito | Dieter Proell | Oren Yuen |

When the IEEE SA Standards Board approved this standard on 21 September 2022, it had the following membership:

David J. Law, *Chair*

Ted Burse, *Vice Chair*

Gary Hoffman, *Past Chair*

Konstantinos Karachalios, *Secretary*

Edward A. Addy
Ramy Ahmed Fathy
J. Travis Griffith
Guido R. Hiertz
Yousef Kimiagar
Joseph L. Koepfinger*
Thomas Koshy
John D. Kulick

Johnny Daozhuang Lin
Kevin Lu
Daleep C. Mohla
Andrew Myles
Damir Novosel
Annette D. Reilly
Robby Robson
Jon Walter Rosdahl

Mark Siira
Dorothy V. Stanley
Lei Wang
F. Keith Waters
Karl Weber
Sha Wei
Philip B. Winston
Daidi Zhong

*Member Emeritus

Historical participants

Since the initial publication, many IEEE standards have added functionality or provided updates to material included in this standard. The following is a historical list of participants who have dedicated their valuable time, energy, and knowledge to the creation of this material:

| IEEE 802.1Q Standard | Date approved by IEEE | Officers at the time of Working Group Ballot |
|-----------------------|-----------------------|---|
| IEEE Std 802.1Q-1998 | 8 December 1998 | William P. Lidinsky , <i>Chair</i> Mick Seaman , <i>Chair, Interworking Task Group</i> Tony Jeffree , <i>Coordinating Editor</i> Anil Rijsinghani, Richard Hausmann, Michele Wright, Paul Langille, P. J. Singh , <i>Editorial Team</i> |
| IEEE Std 802.1u-2001 | 17 March 2001 | Tony Jeffree , <i>Chair</i> Neil Jarvis , <i>Vice Chair</i> Mick Seaman , <i>Chair, Interworking Task Group</i> |
| IEEE Std 802.1v-2001 | 17 March 2001 | Tony Jeffree , <i>Chair</i> Neil Jarvis , <i>Vice Chair</i> Mick Seaman , <i>Chair, Interworking Task Group</i> David Delany , <i>Editor</i> Andrew Smith , <i>Editor</i> |
| IEEE Std 802.1s-2002 | 11 December 2002 | Tony Jeffree , <i>Chair</i> Neil Jarvis , <i>Vice Chair</i> Mick Seaman , <i>Chair, Interworking Task Group</i> Norman W. Finn , <i>Editor</i> |
| 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> |
| IEEE Std 802.1Q-2005 | 7 December 2005 | Tony Jeffree , <i>Chair and Editor</i> Paul Congdon , <i>Vice Chair</i> Mick Seaman , <i>Chair, Interworking Task Group</i> |
| IEEE Std 802.1ak-2007 | 22 March 2007 | Tony Jeffree , <i>Chair and Editor</i> Paul Congdon , <i>Vice Chair</i> Mick Seaman , <i>Chair, Interworking Task Group</i> |
| IEEE Std 802.1ag-2007 | 27 September 2007 | Tony Jeffree , <i>Chair</i> Paul Congdon , <i>Vice Chair</i> Stephen R. Haddock , <i>Chair, Interworking Task Group</i> Norman W. Finn , <i>Editor-in-Chief</i> David V. Elie-Dit-Cosaque, Dinesh Mohan, Oscar Rodriguez, Ali Sajassi , <i>Assistant Editors</i> |

ISO/IEC/IEEE 8802-1Q:2024(en)

| IEEE 802.1Q Standard | Date approved by IEEE | Officers at the time of Working Group Ballot |
|---------------------------------|------------------------------|--|
| IEEE Std 802.1ah-2008 | 12 June 2008 | Tony Jeffree, Chair Paul Congdon, Vice Chair Stephen R. Haddock, Chair, Interworking Task Group Paul Bottorff, Stephen Haddock, and Muneyoshi Suzuki, Editors |
| IEEE Std 802.1Q-2005/Cor-1-2008 | 26 September 2008 | Tony Jeffree, Chair and Editor Paul Congdon, Vice Chair Stephen R. Haddock, Chair, Interworking Task Group |
| IEEE Std 802.1ap-2008 | 10 December 2008 | Tony Jeffree, Chair Paul Congdon, Vice Chair Stephen R. Haddock, Chair, Interworking Task Group Glenn Parsons, Editor David Levi, Assistant Editor |
| IEEE Std 802.1Qaw-2009 | 17 June 2009 | Tony Jeffree, Chair Paul Congdon, Vice Chair Stephen R. Haddock, Chair, Interworking Task Group Linda Dunbar, Editor |
| IEEE Std 802.1Qay-2009 | 17 June 2009 | Tony Jeffree, Chair Paul Congdon, Vice Chair Stephen R. Haddock, Chair, Interworking Task Group Panagiotis Saltsidis, Editor |
| IEEE Std 802.1aj-2009 | 9 December 2009 | Tony Jeffree, Chair Paul Congdon, Vice Chair Stephen R. Haddock, Chair, Interworking Task Group John Messenger, Editor Brian Hassink, MIB Editor |
| IEEE Std 802.1Qav-2009 | 9 November 2009 | Tony Jeffree, Chair and Editor Paul Congdon, Vice Chair Michael Johas Teener, Chair, Audio Video Bridging Task Group |
| IEEE Std 802.1Qau-2010 | 25 March 2010 | Tony Jeffree, Chair Paul Congdon, Vice Chair Patricia Thaler, Chair, Data Center Bridging Task Group Norman W. Finn, Editor |
| IEEE Std 802.1Qat-2010 | 30 September 2010 | Tony Jeffree, Chair Paul Congdon, Vice Chair Michael Johas Teener, Chair, Audio Video Bridging Task Group Craig Gunther, Editor |