

P802.1Qbz

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Type of Project: Amendment to IEEE Standard 802.1Q-2011

PAR Request Date: 20-Sep-2012

PAR Approval Date:

PAR Expiration Date:

Status: Unapproved PAR, PAR for an Amendment to an existing IEEE Standard

1.1 Project Number: P802.1Qbz

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Local and metropolitan area networks--Media Access Control (MAC) Bridges and Virtual Bridged Local Area Networks Amendment: Enhancements to Bridging of 802.11 Media Amendment

3.1 Working Group: Higher Layer LAN Protocols Working Group (C/LM/WG802.1)

Contact Information for Working Group Chair

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3.2 Sponsoring Society and Committee: IEEE Computer Society/LAN/MAN Standards Committee (C/LM)

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4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 03/2015

4.3 Projected Completion Date for Submittal to RevCom: 10/2015

5.1 Approximate number of people expected to be actively involved in the development of this project: 30

5.2.a. Scope of the complete standard: This standard specifies Media Access Control (MAC) Bridges that interconnect individual Local Area Networks (LANs), each supporting the IEEE 802 MAC service using a different or identical media access control method, to provide Bridged Local Area Networks and Virtual LANs (VLANs).

5.2.b. Scope of the project: This standard specifies protocols, procedures, and managed objects to allow IEEE 802.11 media to provide internal connections within bridged networks, as well as access to bridged networks.

5.3 Is the completion of this standard dependent upon the completion of another standard: Yes

If yes please explain: This standard will require features to be standardized in a parallel IEEE 802.11 project. The two Working Groups will cooperate to produce these standards.

5.4 Purpose: MAC Bridges, as specified by this standard, allow the compatible interconnection of information technology equipment attached to separate individual LANs.

5.5 Need for the Project: There are a large number of new products, including home entertainment systems and industrial control equipment, that have both an IEEE 802.11 wireless station capability and a wired IEEE 802.3 Ethernet capability. IEEE 802.11 has initiated work on 802.11 media operating in the Gbit/sec range. These developments raise a demand for supporting IEEE 802.11 media to the same level as other media supported by bridges, as a medium internal to the network, as well as a medium offering access to the network.

5.6 Stakeholders for the Standard: Vendors, users, administrators, designers, customers, and owners of mixed wireless

and wired IEEE 802 networks.

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No

6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

7.1 Are there other standards or projects with a similar scope?: No

7.2 Joint Development

Is it the intent to develop this document jointly with another organization?: No

8.1 Additional Explanatory Notes (Item Number and Explanation): 7.1: The IEEE 802.11s Mesh Network standards attempts to address a part of this need. However, it defines only the wireless portion of a network. A mixed network of wired and wireless connections suffers in this model because a) the wired and wireless portions of the network are opaque to each other; and b) the frequent improvements made in 802.1 bridged networks are unavailable to the wireless portions of the whole.