

# P802.1BR

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**Type of Project:** New IEEE Standard

**PAR Request Date:** 22-Jul-2011

**PAR Approval Date:** 10-Sep-2011

**PAR Expiration Date:** 31-Dec-2015

**Status:** PAR for a New IEEE Standard

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**1.1 Project Number:** P802.1BR

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

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**2.1 Title:** Standard for Local and Metropolitan Area Networks-Virtual Bridged Local Area Networks - Bridge Port Extension

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**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)

**Contact Information for Sponsor Chair**

**Name:** Paul Nikolich

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None

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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

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

**5.2 Scope:** This standard specifies the devices, protocols, procedures and managed objects necessary to extend a bridge and its management beyond its physical enclosure using 802 LAN technologies.

To this end it:

- a) Identifies and isolates traffic between ports within an Extended Bridge;
- b) Specifies a tag format for this identification;
- c) Establishes an Extended Bridge consisting of a Controlling Bridge and one or more Bridge Port Extenders;
- d) Specifies the functionality and the specific requirements of a Bridge Port Extender;
- e) Extends the MAC service of a Bridge Port across the interconnected Bridge Port Extenders, including support of Customer Virtual Local Area Networks (C-VLANs).
- f) Establishes the requirements of bridge components and systems for the attachment of Bridge Port Extenders;
- g) Specifies a protocol to provide for the configuration and monitoring of Bridge Port Extenders by a Controlling Bridge; and
- h) Establishes the requirements for Bridge Management to support Port Extension, identifying the managed objects and defining the management operations.

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

**If yes please explain:** This standard makes use of the Edge Control Protocol under development in P802.1Qbg.

**5.4 Purpose:** The purpose of this standard is to extend a bridge, and the management of its objects, beyond its physical enclosure using 802 LAN technologies and interoperable interfaces.

**5.5 Need for the Project:** Management of large networks is highly complex. This complexity may be reduced by aggregating the more complex bridging functions onto fewer bridges and by collapsing bridge layers from a management perspective.

**5.6 Stakeholders for the Standard:** Developers, distributors, and users of networking services and equipment for data

center environments including networking IC developers, switch and network interface card (NIC) vendors, and users.

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**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

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**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

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**8.1 Additional Explanatory Notes (Item Number and Explanation):** The title of P802.1Qbg is "Standard for Local and Metropolitan Area Networks---Virtual Bridged Local Area Networks Amendment: Edge Virtual Bridging".