P802.1BR

Submitter Email: tony@jeffree.co.uk
Type of Project: New IEEE Standard
PAR Request Date: 22-May-2011
PAR Approval Date:
PAR Expiration Date:
Status: Unapproved PAR, PAR for a New IEEE Standard

1.1 Project Number: P802.1BR
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

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

3.1 Working Group: Higher Layer LAN Protocols Working Group (C/LM/WG802.1)
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   Name: Anthony Jeffree
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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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Contact Information for Standards Representative
None

4.1 Type of Ballot: Individual
4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 07/2015
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 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) Indentifies 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) and Service Virtual Local Area Networks (S-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 being 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, including those using Provider Bridging technologies 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.

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):