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If you have any questions, please contact the NesCom Administrator.

**Once you approve and submit the following information, changes may only be made through the NesCom Administrator.**

<b>Draft PAR Confirmation Number:</b> 198005775.7743
<b>Submittal Email:</b> tony@jeffree.co.uk
<b>Type of Project:</b> Amendment to an Existing Standard 802.1Q-2005
<b>1.1 Project Number:</b> P802.1Qay
<b>1.2 Type of Document:</b> Standard for
<b>1.3 Life Cycle:</b> Full
<b>1.4 Is this project in ballot now?</b> No
<b>2.1 Title of Standard:</b> IEEE Standard for Local and Metropolitan Area Networks---Virtual Bridged Local Area Networks - Amendment: Provider Backbone Bridge Traffic Engineering
<b>3.1 Name of Working Group:</b> Higher Layer LAN Protocols Working Group
<b>Contact information for Working Group Chair</b> Tony A Jeffree Email: tony@jeffree.co.uk Phone: +44-161-973-4278
<b>Contact Information for Working Group Vice Chair</b> Paul Congdon Email: paul.congdon@hp.com Phone: 916-785-5753
<b>3.2 Sponsoring Society and Committee:</b> IEEE Computer Society/Local and Metropolitan Area Networks (C/LM) <b>Contact information for Sponsor Chair:</b> Paul Nikolich Email: p.nikolich@ieee.org Phone: 857-205-0050 <b>Contact information for Standards Representative:</b>  Email: Phone:
<b>3.3 Joint Sponsor:/ ( )</b> <b>Contact information for Sponsor Chair:</b>  Email: Phone: <b>Contact information for Standards Representative:</b>  Email: Phone:
<b>4.1 Type of Ballot:</b> Individual
<b>4.2 Expected Date of Submission for Initial Sponsor Ballot:</b> 2010-08
<b>4.3 Projected Completion Date for Submittal to RevCom:</b> 2011-02

**5.1 Approximate number of people expected to work on this project: 50**

**5.2 Scope of Proposed Standard:** This amendment will support provisioning systems that explicitly select traffic engineered paths within Provider Backbone Bridge Networks (P802.1ah) by allowing a network operator to disable unknown destination address forwarding and source address learning for administratively selected VLAN Identifiers, while allowing other network control protocols to dynamically determine active topologies for other services. These interoperable capabilities will be supported by SNMP MIB management of individual bridges, by extensions to the other control protocols specified in this standard, by the use of CFM with the addresses and VLAN Identifiers that specify traffic engineered connections, and by 1:1 path protection switching capable of load sharing. This amendment will not take account of multi-domain networks.

**Old Scope:**

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

**If yes, please explain:** This project is dependent on the completion of P802.1ag, Standard for Local and Metropolitan Area Networks – Virtual Bridged Local Area Networks – Amendment 5: Connectivity Fault Management, and P802.1ah, Standard for Local and Metropolitan Area Networks – Virtual Bridged Local Area Networks - Amendment 6: Provider Backbone Bridges. P802.1ag is about to enter Sponsor ballot; P802.1ah is likely to start Sponsor ballot within the year.

**5.4 Purpose of Proposed Standard:** An essential requirement of many provider networks is supporting traffic engineered paths. Complete route selection freedom must be allowed for a large number of connections. This amendment enables a Service Provider to traffic engineer provisioned connections in a Provider Backbone Bridged network using familiar 802.1 bridging technology.

**Old Purpose:**

**5.5 Need for the Project:** Provider networks rely on direct control of path routing so that traffic engineering can be used to allocate bandwidth, assure diverse backup path routing, and select path performance as required by service level agreements. Most major carriers, who will be the users of this standard, are currently deploying IEEE 802 based networks and will need traffic engineering capabilities, for load balancing, protection switching, bandwidth management, etc. The existing architecture of bridges and their associated protocols, as specified by 802.1 standards and P802.1ah (Provider Backbone Bridged Networks), allows the further specification of interoperable bridge capabilities that support traffic engineering at the required scale. This project will develop that specification, meeting the (as yet unsatisfied) demand for multi-vendor interoperability and a coherent management framework.

**5.6 Stakeholders for the Standard:** Developers and users of networking for Provider network environments including networking integrated circuit (IC) developers, switch and network interface card (NIC) vendors.

**Intellectual Property**

**6.1.a.** Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR prior to the PAR submittal to the IEEE-SA Standards Board?

Yes

If yes, state date: 2007-01-22

If no, please explain:

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

If yes, please explain:

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

If yes, please explain:

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

If yes, please explain:

**and answer the following:** Sponsor Organization:

Project/Standard Number:

Project/Standard Date: 0000-00-00

Project/Standard Title:

**7.2 Future Adoptions**

**Is there potential for this standard (in part or in whole) to be adopted by another national, regional, or international organization? No**

If Yes, the following questions must be answered:

Technical Committee Name and Number:

**Other Organization Contact Information:**

**Contact person:**

**Contact Email address:**

**7.3 Will this project result in any health, safety, security, or environmental guidance that affects or applies to human health or safety? No**

If yes, please explain:

**7.4 Additional Explanatory Notes: (Item Number and Explanation)**

**8.1 Sponsor Information:**

Is the scope of this project within the approved scope/definition of the Sponsor's Charter? Yes

If no, please explain:

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