P802.1Qcd

Submitter Email: tony@jeffree.co.uk
Type of Project: Amendment to IEEE Standard 802.1Q-2011
PAR Request Date: 23-May-2013
PAR Approval Date:
PAR Expiration Date:
Status: Unapproved PAR, PAR for an Amendment to an existing IEEE Standard

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1.1 Project Number: P802.1Qcd
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: Application Virtual Local Area Network (VLAN) Type, Length, Value (TLV)

3.1 Working Group: Higher Layer LAN Protocols Working Group (C/LM/WG802.1)
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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: 02/2015
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: 15
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 the protocols, procedures, and management objects for an Application Virtual Local Area Network (VLAN) identifier (ID) Type, Length, Value (TLV) within the Data Center Bridging eXchange (DCBX) protocol defined in IEEE Std 802.1Qaz. For networks that already make use of DCBX, an Application VLAN ID TLV will simplify the management of the end station by allowing the VLAN ID for the application to be communicated via DCBX rather than requiring manual configuration.

5.3 Is the completion of this standard dependent upon the completion of another standard: No
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: Converged network deployments where multiple networks such as LAN/Storage/High Performance Computing (HPC) are operated over the same physical infrastructure make use of the DCBX protocol to provision services such as Priority-based Flow Control (PFC), Enhanced Transmission Selection (ETS), and Application Priority. In these deployments, it is highly desirable to be able to provision the VLAN ID for an application via DCBX, instead of requiring manual provisioning.

5.6 Stakeholders for the Standard: Developers, providers, and users of networking equipment and services, including networking IC developers, switch and NIC vendors, networking service providers, and end 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

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):