P802.1DC

Submitter Email: nfinn@alumni.caltech.edu
Type of Project: New IEEE Standard
PAR Request Date: 26-Jan-2018
PAR Approval Date:
PAR Expiration Date:
Status: Unapproved PAR, PAR for a New IEEE Standard

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

2.1 Title: Quality of Service Provision by Network Systems

3.1 Working Group: Higher Layer LAN Protocols Working Group (C/LM/WG802.1)
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Name: Glenn Parsons
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3.2 Sponsoring Society and Committee: IEEE Computer Society/LAN/MAN Standards Committee (C/LM)
Contact Information for Sponsor Chair
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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: 12/2021
4.3 Projected Completion Date for Submittal to RevCom
Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 10/2022

5.1 Approximate number of people expected to be actively involved in the development of this project: 20
5.2 Scope: This standard specifies procedures and managed objects for Quality of Service (QoS) features specified in IEEE Std 802.1Q, such as per-stream filtering and policing, queuing, transmission selection, flow control and preemption, in a network system which is not a bridge.

5.3 Is the completion of this standard dependent upon the completion of another standard: Yes
If yes please explain: IEEE P802.1Q-Rev, the revision of IEEE Std 802.1Q-2014.

5.4 Purpose: This document will not include a purpose clause.
5.5 Need for the Project: IEEE Std 802.1Q specifies Quality of Service (QoS) features for bridges. These features are perfectly applicable to other devices, e.g. end stations, routers, or firewall appliances. In IEEE Std 802.1Q, the specifications of these features are scattered, and coupled tightly to the operation of a bridge. There is a need for simple reference points to these QoS specifications that are usable for non-bridge systems, and for managed objects for these features that are not specific to bridges.

5.6 Stakeholders for the Standard: Software developers, networking integrated circuit developers, and developers and users of networking equipment that handle data with varying requirements for Quality of Service. Such equipment includes end stations, hosts, routers, and other packet relay devices.

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?: Yes
If yes please explain: The YANG Data Model will be assigned a URN based on the RA URN tutorial and IEEE Std 802d. The standard may allow an OUI or CID to be used to create globally unique identifiers for narrowly-defined contexts within the YANG data model.

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: