

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)

Contact Information for Working Group Chair

Name: Glenn Parsons

Email Address: glenn.parsons@ericsson.com

Phone: 613-963-8141

Contact Information for Working Group Vice-Chair

Name: John Messenger

Email Address: j.l.messenger@ieee.org

Phone: +441904699309

3.2 Sponsoring Society and Committee: IEEE Computer Society/LAN/MAN Standards Committee (C/LM)

Contact Information for Sponsor Chair

Name: Paul Nikolich

Email Address: p.nikolich@ieee.org

Phone: 8572050050

Contact Information for Standards Representative

Name: James Gilb

Email Address: gilb@ieee.org

Phone: 858-229-4822

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 Uniform Resource Name (URN) based on the Registration Authority URN tutorial and IEEE Std 802d. The standard may allow an Organizationally Unique Identifier (OUI) or Company Identifier (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

8.1 Additional Explanatory Notes: #5.2 IEEE Std 802.1Q Bridges and Bridged Networks

#5.3 IEEE P802.1Q-Rev Bridges and Bridged Networks; IEEE Std 802.1Q-2014 Bridges and Bridged Networks

#5.5 IEEE Std 802.1Q Bridges and Bridged Networks

#6.1.b While 'YANG' (developed by the Internet Engineering Task Force) appears to be an acronym its expansion 'Yet Another Next Generation' is not meaningful. YANG is a widely-used standard that is relevant to the Registration Authority.

IEEE Std 802d IEEE Standard for Local and Metropolitan Area Networks: Overview and Architecture Amendment 1: Allocation of Uniform Resource Name (URN) Values in IEEE 802 Standards

Registration Authority URN tutorial: <http://standards.ieee.org/develop/regauth/tut/ieeearn.pdf>