

---

**P802.1DC**

---

This PAR is valid until 31-Dec-2022.

**PAR Extension Request Date:**  
**PAR Extension Approval Date:**  
**Number of Previous Extensions Requested:** 0

---

**1. Number of years that the extension is being requested:** 3  
**2. Why an Extension is Required (include actions to complete):** Document refers frequently to 802.1Q. We rebased references from 802.1Q-2018 to 802.1Q-202x to include new TSN features without referring to multiple amendments to 802.1Q-2018.  
**3.1. What date did you begin writing the first draft:** 31 Aug 2019  
**3.2. How many people are actively working on the project:** 15  
**3.3. How many times a year does the working group meet?**  
    **In person:** 6  
    **Via teleconference:** 40  
**3.4. How many times a year is a draft circulated to the working group:** 3  
**3.5. What percentage of the Draft is stable:** 70%  
**3.6. How many significant work revisions has the Draft been through:** 4  
**4. When will/did initial Standards Association Balloting begin:** Nov 2022  
**When do you expect to submit the proposed standard to RevCom:** Jul 2023  
**Has this document already been adopted by another source? (if so please identify)** No

---

For an extension request, the information on the original PAR below is not open to modification.

---

**Type of Project:** New IEEE Standard  
**Project Request Type:** Initiation / New  
**PAR Request Date:** 20 Mar 2018  
**PAR Approval Date:** 14 May 2018  
**PAR Expiration Date:** 31 Dec 2022  
**PAR Status:** Active

---

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

---

**2.1 Project Title:** Quality of Service Provision by Network Systems

---

**3.1 Working Group:** Higher Layer LAN Protocols Working Group(C/LM/802.1 WG)  
**3.1.1 Contact Information for Working Group Chair:**  
    **Name:** Glenn Parsons  
    **Email Address:** glenn.parsons@ericsson.com  
**3.1.2 Contact Information for Working Group Vice Chair:**  
    **Name:** Jessy Rouyer  
    **Email Address:** jessy.rouyer@nokia.com  
**3.2 Society and Committee:** IEEE Computer Society/LAN/MAN Standards Committee(C/LM)  
**3.2.1 Contact Information for Standards Committee Chair:**  
    **Name:** Paul Nikolich  
    **Email Address:** p.nikolich@ieee.org  
**3.2.2 Contact Information for Standards Committee Vice Chair:**  
    **Name:** James Gilb  
    **Email Address:** gilb@ieee.org  
**3.2.3 Contact Information for Standards Representative:**  
    **Name:** James Gilb  
    **Email Address:** gilb@ieee.org

---

**4.1 Type of Ballot:** Individual  
**4.2 Expected Date of submission of draft to the IEEE SA for Initial Standards Committee Ballot:**  
Dec 2021  
**4.3 Projected Completion Date for Submittal to RevCom:** Oct 2022

---

**5.1 Approximate number of people expected to be actively involved in the development of this project:** 20

**5.2 Scope of proposed standard:** 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 contingent upon the completion of another standard?** Yes

**Explanation:** 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.

---

## **6.1 Intellectual Property**

**6.1.1 Is the Standards Committee aware of any copyright permissions needed for this project?**

No

**6.1.2 Is the Standards Committee aware of possible registration activity related to this project?**

Yes

**Explanation:** 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 Is it the intent to develop this document jointly with another organization?** No

---

**8.1 Additional Explanatory Notes:** #5.2, #5.5 IEEE Std 802.1Q IEEE Standard for Local and metropolitan area networks--Bridges and Bridged Networks #5.3 IEEE P802.1Q-Rev Draft Standard for Local and Metropolitan Area Networks--Bridges and Bridged Networks; IEEE Std 802.1Q-2014 IEEE Standard for Local and metropolitan area networks--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>