

# P802.1Qcl

---

**Submitter Email:** [mick\\_seaman@ieee.org](mailto:mick_seaman@ieee.org)

**Type of Project:** Amendment to IEEE Standard 802.1Q-2014

**PAR Request Date:** 09-Jun-2015

**PAR Approval Date:**

**PAR Expiration Date:**

**Status:** Unapproved PAR, PAR for an Amendment to an existing IEEE Standard

---

**1.1 Project Number:** P802.1Qcl

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

---

**2.1 Title:** Standard for Local and metropolitan area networks--Bridges and Bridged Networks  
Amendment: YANG Data Model

---

**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:** [gparsons@ieee.org](mailto:gparsons@ieee.org)

**Phone:** 613-963-8141

**Contact Information for Working Group Vice-Chair**

**Name:** John Messenger

**Email Address:** [jmessenger@advaoptical.com](mailto:jmessenger@advaoptical.com)

**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](mailto:p.nikolich@ieee.org)

**Phone:** 857.205.0050

**Contact Information for Standards Representative**

**Name:** James Gilb

**Email Address:** [gilb@ieee.org](mailto: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:** 11/2017

**4.3 Projected Completion Date for Submittal to RevCom:** 08/2018

---

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

**5.2.a. Scope of the complete standard:** This standard specifies Bridges that interconnect individual LANs, each supporting the IEEE 802 MAC

Service using a different or identical media access control method, to provide Bridged Networks and VLANs.

**5.2.b. Scope of the project:** This amendment specifies a UML-based information model and a YANG data model that allows configuration and status reporting for bridges and bridge components including TPMRs, MAC Bridges, Customer VLAN Bridges, and Provider Bridges (as specified by this standard) with the capabilities currently specified in clauses 12.4-12.8, 12.10, 12.13, and 12.19 of this standard. It further defines the relationship between the information and data model and models for the other management capabilities specified in this standard and for IEEE Std 802.1AX and IEEE Std 802.1X.

**5.3 Is the completion of this standard dependent upon the completion of another standard:** No

**5.4 Purpose:** 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:** YANG (RFC 6020) is a formalized data modeling language that can be used by NETCONF, a widely accepted protocol that is being used to simplify network configuration. Other SDOs (e.g. IETF and the Metro Ethernet Forum) have adopted YANG, and

are developing a broad range of data models. Development of a YANG data model for manageable entities specified in IEEE Std 802.1Q will support this industry wide effort.

**5.6 Stakeholders for the Standard:** Developers, providers, and users of networking services and equipment.

---

#### **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):** #2.1 While 'YANG' (developed by the IETF) appears to be an acronym its expansion 'Yet Another Next Generation' is not meaningful. It is vital that 'YANG' appear in the project title to inform potential participants and the target readership of the amendment.

#7.3A The base standard, IEEE Std 802.1X, has already been adopted by ISO/IEC JTC1 under the PSDO Agreement and it is expected that this amendment will also be adopted with communication with JTC1 through existing channels.