

# P802.1Qcx

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

**PAR Request Date:** 18-May-2017

**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:** P802.1Qcx

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

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

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**3.1 Working Group:** Higher Layer LAN Protocols Working Group (C/LM/WG802.1)

**Contact Information for Working Group Chair**

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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:** 11/2019

**4.3 Projected Completion Date for Submittal to RevCom**

**Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 10/2020**

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**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 Unified Modeling Language (UML)-based information model and a YANG data model that allows configuration and status reporting for bridges and bridge components for Connectivity Fault Management (CFM) as specified by this standard with the capabilities currently specified in clause 12.14 (CFM entities) 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. Additionally, this amendment will address open CFM maintenance items.

**5.3 Is the completion of this standard dependent upon the completion of another standard:** Yes

**If yes please explain:** IEEE 802.1Qcp

**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 7950) is a formalized data modeling language that is widely accepted and can be used to simplify network configuration. The ability to manage CFM via YANG is needed for operation, administration, and management of modern networks.

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

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### 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

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**7.1 Are there other standards or projects with a similar scope?:** Yes

**If Yes please explain:** IEEE 802.1 has been approached by MEF Forum and ITU-T SG15 for assistance with YANG models for CFM.

**and answer the following**

**Sponsor Organization:** MEF Forum, ITU-T

**Project/Standard Number:**

**Project/Standard Date:**

**Project/Standard Title:** Ongoing CFM YANG related projects in MEF Forum and ITU-T SG15.

**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:** #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.

#7.2 This project will be coordinated with organizations who have CFM OpCodes assigned.