

**P802.1CQ**

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This PAR is valid until 31-Dec-2022. It was extended on 03-Jun-2020.

**PAR Extension Request Date:**  
**PAR Extension Approval Date:**  
**Number of Previous Extensions Requested:** 1

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- 1. Number of years that the extension is being requested:** 2  
**2. Why an Extension is Required (include actions to complete):** Additional time is required to complete details, conduct Working Group ballot (estimating one year), and conduct SA ballot (estimating another year). The numbers herein are estimates based on anticipated activity once Working Group ballot begins.  
**3.1. What date did you begin writing the first draft:** 11 Sep 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:** 50  
**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:** 6  
**4. When will/did initial Standards Association Balloting begin:** Jul 2023  
**When do you expect to submit the proposed standard to RevCom:** Jul 2024  
**Has this document already been adopted by another source? (if so please identify)** No
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For an extension request, the information on the original PAR below is not open to modification.

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**Type of Project:** New IEEE Standard  
**Project Request Type:** Initiation / New  
**PAR Request Date:** 13 Nov 2015  
**PAR Approval Date:** 05 Feb 2016  
**PAR Expiration Date:** 31 Dec 2022  
**PAR Status:** Active

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

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**2.1 Project Title:** Standard for Local and Metropolitan Area Networks: Multicast and Local Address Assignment

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- 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
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- 4.1 Type of Ballot:** Individual  
**4.2 Expected Date of submission of draft to the IEEE SA for Initial Standards Committee Ballot:**

**5.1 Approximate number of people expected to be actively involved in the development of this project:** 15

**5.2 Scope of proposed standard:** This standard specifies protocols, procedures, and management objects for locally-unique assignment of 48-bit and 64-bit addresses in IEEE 802 networks. Peer-to-peer address claiming and address server capabilities are specified.

**5.3 Is the completion of this standard contingent upon the completion of another standard?** Yes

**Explanation:** IEEE P802c Standard for Local and Metropolitan Area Networks: Overview and Architecture Amendment: Local Media Access Control (MAC) Address Usage

**5.4 Purpose:** This document will not include a purpose clause.

**5.5 Need for the Project:** Currently, global addresses are assigned to most IEEE 802 end station and bridge ports. Increasing use of virtual machines and Internet of Things (IoT) devices could exhaust the global address space. To provide a usable alternative to global addresses for such devices, this project will define a set of protocols that will allow ports to automatically obtain a locally-unique address in a range from a portion of the local address space. Multicast flows also need addresses to identify the flows. They will benefit from a set of protocols to distribute multicast addresses. Peer-to-peer address claiming and address server capabilities will be included to serve the needs of smaller (e.g. home) and larger (e.g. industrial plants and building control) networks.

**5.6 Stakeholders for the Standard:** Developers, providers, and users of networking services and equipment for IoT (including Industrial Automation, Transportation networking, Smart Grid) and of operating systems, hypervisors and orchestration systems for virtual machines. This includes software developers, networking equipment vendors, and users.

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## **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:** This protocol may require coordination with the IEEE Registration Authority.

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**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

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## **8.1 Additional Explanatory Notes:**