

# P802.1CS

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**Submitter Email:** [nfinn@alumni.caltech.edu](mailto:nfinn@alumni.caltech.edu)

**Type of Project:** Modify Existing Approved PAR

**PAR Request Date:** 16-Sep-2019

**PAR Approval Date:**

**PAR Expiration Date:**

**Status:** Unapproved PAR, Modification to a Previously Approved PAR

**Root PAR:** P802.1CS **Approved on:** 17-Feb-2017

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

**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 -- Link-local Registration Protocol

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**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](mailto: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](mailto:j.l.messenger@ieee.org)

**Phone:** +441904699309

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**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:** 8572050050

**Contact Information for Standards Representative**

**Name:** James Gilb

**Email Address:** [gilb@ieee.org](mailto:gilb@ieee.org)

**Phone:** 858-229-4822

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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:** 03/2020

**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:** 40

**5.2 Scope:** This standard specifies protocols, procedures, and managed objects for a Link-local Registration Protocol (LRP) to replicate a registration database from one end to the other of a point-to-point link and to replicate changes to parts of that database. A facility is provided to purge the replicated database if the source becomes unresponsive. Provision is made for a proxy system to operate LRP on behalf of a controlled system. LRP is optimized for databases on the order of 1 Mbyte.

**Changes in scope:** This standard specifies protocols, procedures, and managed objects for a Link-local Registration Protocol (LRP) to replicate a registration database from one end to the other of a point-to-point link and to replicate changes to parts of that database. A facility ~~willis be~~ provided to purge the replicated database if the source becomes unresponsive. **Provision is made for a proxy system to operate LRP on behalf of a controlled system.** LRP is optimized for databases on the order of 1 Mbyte.

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

**5.4 Purpose:** Link-local Registration Protocol is designed to facilitate the creation of application protocols that distribute information through all or part of a network.

**5.5 Need for the Project:** Current "802.1Q Multiple Registration Protocol (MRP)" is optimized for databases up to 1500 bytes, and slows significantly when used for larger databases. There is a need to overcome this limitation in an efficient manner.

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

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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?:** No

**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:** #5.2 The proxy feature added to the scope is a feature of the existing protocols, that this project is intended to replace. The proxy feature has been in all drafts and the initial presentations made to justify the project. It was inadvertently omitted from the scope.