

P802.1Qcc

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Type of Project: Amendment to IEEE Standard 802.1Q-2011

PAR Request Date: 22-Jul-2013

PAR Approval Date: 21-Oct-2013

PAR Expiration Date: 31-Dec-2017

Status: PAR for an Amendment to an existing IEEE Standard

Root Project: 802.1Q-2011

1.1 Project Number: P802.1Qcc

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Local and metropolitan area networks--Media Access Control (MAC) Bridges and Virtual Bridged Local Area Networks Amendment: Stream Reservation Protocol (SRP) Enhancements and Performance Improvements

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)

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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: 02/2017

4.3 Projected Completion Date for Submittal to RevCom: 10/2017

5.1 Approximate number of people expected to be actively involved in the development of this project: 25

5.2.a. Scope of the complete standard: This standard specifies Media Access Control (MAC) Bridges that interconnect individual Local Area Networks (LANs), each supporting the IEEE 802 MAC service using a different or identical media access control method, to provide Bridged Local Area Networks and Virtual LANs (VLANs).

5.2.b. Scope of the project: This amendment describes new protocols, procedures and managed objects for bridges and end stations, which are compatible with existing mechanisms, and provide:

- Support for more streams. The current worst case limit is less than 500 streams; there are use cases that require two orders of magnitude greater than this.
- Mechanisms that allow Stream Reservation class (SR class) parameters to be configured
- Inclusion of additional parameters and mechanisms in the stream reservation protocol that support additional applications, such as higher reliability, latency requirements, and latency changes due to network reconfiguration.
- Support for higher layer streaming sessions, such as Real-Time Protocol (RTP)-based sessions.
- Deterministic stream reservation convergence.
- User Network Interface (UNI) for routing and reservations.

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

5.4 Purpose: MAC 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: The first generation of the Stream Reservation Protocol (SRP) has been accepted by the Professional, Industrial, Consumer, and Automotive markets. This set of enhancements extends the capabilities of SRP as requested by those markets.

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

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): Additional explanatory material can be found in the "5 Criteria" document that accompanied this draft PAR when it was approved for forwarding to NesCom by the LMSC: <http://ieee802.org/1/files/public/docs2013/new-p802-1qcc-draft-5c-0513-v2.pdf>