

PAR Request Date: 21 July 2006**PAR Approval Date:****PAR Signature Page on File:** No**Type of Project:** Amendment to IEEE Standard**Status:** Unapproved PAR, Std 802.1Q-2005**Root Project:****1.1 Project No.:** **P802.1Qat****1.2 Type of Document:** Standard**1.3 Life Cycle:** Full-Use**1.4 Is this document in ballot now?** No**2.1 Title**

IEEE Standard for Local and Metropolitan Area Networks---Virtual Bridged Local Area Networks - Amendment:

2.1 Amendment/Corrigenda Title

9: Stream Reservation Protocol (SRP)

3.1 Working Group Name[Higher Layer LAN Protocols Working Group](#)**Working Group Chair**[Jeffree, Tony A](#)

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Working Group Vice Chair**3.2 Sponsor**[IEEE Computer Society Local and Metropolitan Area Networks \(C/LM\)](#)**Sponsor Chair**[Nikolich, Paul](#)

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Name of Standards Liaison Representative (if applicable)**3.3 Joint Sponsor****4.1 Type of Ballot:** Individual**4.2 Expected Date of Submission for Initial Sponsor Ballot:** July 2008**4.3 Projected Completion Date for Submittal to RevCom:** July 2009**5.1 Approximate number of people expected to work on this project:** 30

5.2 Scope: This standard specifies protocols, procedures and managed objects, usable by existing higher layer mechanisms, that allow network resources to be reserved for specific traffic streams traversing a bridged local area network. It identifies traffic streams to a level sufficient for bridges to determine the required resources and provides a mechanism for dynamic maintenance of those resources.

5.3 Is the completion of this document contingent upon the completion of another document? Yes

This standard will refer to the material being defined in P802.1ak (also an amendment to 802.1Q); however, P802.1ak will commence Sponsor ballot in June/July 2006, and hence, that project will be complete in time for this project to reference its work.

5.4 Purpose: This standard provides a signaling protocol to enable the end-to-end management of resource reservation for QoS guaranteed streams. The signaling protocol facilitates the registration, deregistration, and retention of resource reservation information in relevant network elements. The signaling protocol is an essential component for automatic configuration in bridged local area network applications that require latency and bandwidth guarantees.

5.5 Need for the Project: Many vendors and users desire a single network infrastructure to carry various multimedia applications such as digital video, high-fidelity digital audio, and gaming traffic, as well as non-time-sensitive traffic (e.g., data traffic). The application of current IEEE 802 technologies for high quality time sensitive streaming allows users to load their networks unknowingly to the extent that the user experience is negatively impacted. To provide the robust guaranteed QoS capability for streaming applications, the availability of network resources along the entire data path must be assured before transmission takes place. This requires the definition of traffic stream descriptors and a protocol to signal the resource reservation along the end-to-end path of streams. MRP will be used as a basis for this protocol.

5.6 Stakeholders for the Standard: Developers and users of Audio-Visual (AV) and networking equipment, including networking IC developers, switch and NIC vendors.

6.1.a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR prior to the PAR submittal to the IEEE-SA Standards Board? Yes Presented Date: 2006-05-15

If no, please explain:

6.1.b. Is the Sponsor aware of any copyright permissions needed for this project? No

If yes, please explain:

6.1.c. Is the Sponsor aware of possible registration activity related to this project? No

If yes, please explain:

7.1 Are there other standards or projects with a similar scope? No

If yes, please explain:

Sponsor Organization:

Project/Standard Number:

Project/Standard Date: 0000-00-00

Project/Standard Title:

7.2 Is there potential for this standard (in part or in whole) to be adopted by another national, regional, or international organization? ? No

Technical Committee Name and Number:

Contact person:

Contact person Phone Number:

Contact person Email Address:

7.3 Will this project result in any health, safety, security, or environmental guidance that affects or applies to human health or safety? No

7.4 Additional Explanatory Notes:

8.1 Sponsor Information:

Is the Scope of this project within the approved scope/definition of the Sponsor's Charter? Yes

If no, please explain: