

PAR FORM

PAR Status: Amendment of Standard (Unapproved PAR)

PAR Approval Date: 0000-00-00

PAR Signature Page on File: Yes

1. Assigned Project Number: 802.1ai

2. Sponsor Date of Request: 2004-10-07

3. Type of Document: Standard for

4. Title of Document:

Draft: Standard for Local and Metropolitan Area Networks – Virtual Bridged Local Area Networks - Amendment 07:
Multiple Registration Protocol

5. Life Cycle: Full-Use

6. Type of Project:

6a. Is this an update to an existing PAR? No

6b. The Project is a: Amendment to Std P802.1Q

7. Working Group Information:

Name of Working Group: IEEE 802.1 Working Group

Approximate Number of Expected Working Group Members:50

8. Contact information for Working Group Chair:

Name of Working Group Chair: Tony A Jeffree

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9. Contact information for Co-Chair/Official Reporter, Project Editor or Document Custodian if different from the Working Group Chair:

Name of Co-Chair/Official Reporter, Project Editor or Document Custodian:

Telephone: FAX:

Email:

10. Contact information for Sponsoring Society or Standards Coordinating Committee:

Name of Sponsoring Society and Committee: Computer Society Local and Metropolitan Area Networks

Name of Sponsoring Committee Chair: Paul Nikolich

Telephone: 857-205-0050 **FAX:** 781-334-2255

Email: paul.nikolich@att.net

Name of Liaison Rep. (if different from the Sponsor Chair):

Telephone: FAX:

Email:

Name of Co-Sponsoring Society and Committee:

Name of Co-Sponsoring Committee Chair:

Telephone: FAX:

Email:

Name of Liaison Rep. (if different from the Sponsor Chair):

Telephone: FAX:

Email:

11. The Type of ballot is: Individual Sponsor Ballot

Expected Date of Submission for Initial Sponsor Ballot: 2006-12-31

12. Fill in Projected Completion Date for Submittal to RevCom: 2007-09-31

Explanation for Modified PAR that completion date is being extended past the original four-year life of the PAR:

13. Scope of Proposed Project:

This standard specifies protocols, procedures, and managed objects to support the Multiple Attribute Registration Protocol. MRP allows participants in a MRP Application to register attributes with other participants in a Bridged Local Area Network. Two Applications are defined, to register VLANs (MVRP) and Group MAC addresses (MMRP). MVRP will furthermore provide for the rapid healing of network failures without interrupting services to unaffected VLANs.

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

This standard is designed to support Provider Bridges (IEEE P802.1ad).

14. Purpose of Proposed Project:

The use of bridges by Ethernet Service Providers has greatly increased the number of VLANs and Group MAC Addresses in the Providers' Virtual Bridged networks. The time and bandwidth required by the existing GVRP and GMRP protocols to register this information has become a dominant factor in the fault recovery time of a Provider Bridged Network. In a large network, localized topology changes can affect the service over a much larger portion of the network. MRP will greatly improve both situations.

14a. Reason for the standardization project:

Public networks represent a new and very broad application space for IEEE 802 technologies and specifically for Provider Bridges (P802.1ad). Operators of such networks require rapid convergence of optimized VLAN and Group MAC Address paths through their networks following a change of network topology. Hundreds of vendors and potential users (the Service Providers) of P802.1ad Provider Bridges have expressed the need both to improve the VLAN and MAC topology convergence time, to reduce the amount of processing required to serve the existing GVRP and GMRP protocols, and to reduce the disruption of traffic in a very large network by a topology change in a small portion of that network.

15. Intellectual Property:

Has the sponsor reviewed the IEEE patent policy with the working group? Yes

Is the sponsor aware of copyrights relevant to this project? No

Is the sponsor aware of trademarks relevant to this project? No

Is the sponsor aware of possible registration of objects or numbers due to this project? No

16. Are there other documents or projects with a similar scope? No

Similar Scope Project Information:

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

If yes, please answer the following questions:

Which International Organization/Committee?

International Contact Information?

18. If the project will result in any health, safety, or environmental guidance that affects or applies to human health or safety, please explain in five sentences or less.

19. Additional Explanatory Notes: (Item Number and Explanation)