
IEEE P802.11
Wireless LANs

New PAR proposals by other WGs**IEEE Standards**
PROJECT AUTHORIZATION REQUEST (PAR)

1. Date of Request: 14 March 1996
2. Assigned Project#: 802.1Q
3. Does this PAR revise a previously approved PAR: NO
4. Description of Proposed Document: New Standard Full Use
5. Project Title:
Standard for Virtual Bridged Local Area Networks
6. Scope of Propose Standard:

To develop an architecture and bridge (-1-) protocols for the logical partitioning of a Bridged Local Area Network (-1-, -2-, -3-) that provides separate instances of the MAC service (-4-) to administratively defined groups of users, independent of physical location. The architecture and protocols will be compatible and interoperable with existing Bridged Local Area Network equipment and will support a range of implementations.

To define basic management of the groups.

This project will not include explicit consideration or development of multiple active paths within a VLAN, enhanced quality of service, or security facilities. However it will not preclude their eventual development except as restricted by (-1-).

- 1- ISO/IEC 10038, ANSI/IEEE Std. 802.1D.
- 2- ANSI/IEEE Std. 802.1D Annex C.
- 3- P802.1G
- 4- ISO/IEC 15802-1, ISO/IEC 10039.

Note: See Attachment: Interpretations

7. Purpose of Proposed Standard:

The set of technologies known as Virtual LANs provide the equivalent of separate LANs over a single bridged LAN. Despite user demand there is currently no interoperability between different vendors, nor a coherent management framework for different techniques. This Standard will provide an architecture, protocols, and mappings for bridges to provide that interoperability and consistent management.

PAR: 802.1Q p 2of3

8. SPONSOR: LMSC

9. Name of group that will write the standard:

IEEE Project 802.1 Working Group

10. Target Completion Date: May 1998

11. Proposed Coordination: Method of Coordination:

SCC10 (IEEE Dictionary) Circulation of Drafts

ISO/IEC JTC1 SC6 Circulation of Drafts
Liaison Membership

IETF Circulation of Drafts

12. Are you aware of any patent, copyright, or trademark issues?

Yes. There is currently a patent from Ascom-Timeplex that may claim to relate in some way to 802.1Q work.

Are you aware of any standards or projects with a similar scope?

No.

13. Copyright Agreement for IEEE Standards

I hereby acknowledge my appointment as Official Reporter to the IEEE Project 802.1 Committee to write/revise a Standards Publication (entitled or to be entitled)

IEEE Std. 802.1Q
Standard for Virtual Bridged Local Area Networks

In consideration of my appointment and the publication of the Standards Publication identifying me, at my option, as an Official Reporter, I agree to avoid *knowingly* incorporating any copyrighted or proprietary material of another without such other's consent and acknowledge that the Standards Publication shall constitute a "work made for hire" as defined by the Copyright Act, and, that as to any work not so defined, I agree and do hereby transfer any right or interest I may have in the copyright to said Standards Publication to IEEE.

Name W. P. Lidinsky _____
(signature of chair of working group)

Title Chair, IEEE Project 802.1 Working Group

Date March 14, 1996

PAR: 802.1Q p 3of3

14. Person delegated to receive communications and conduct liaison with interested bodies:

(This is normally the chair of the working group. If not, please indicated IEEE position.)

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Date March 1996

Attachment: Interpretations

In Scope -

"Users" includes the notion of different protocols in the same endstation using different VLANs.

"Administratively defined" includes a wide range of user administrative choices from equipment purchase, through policy setting, static configuration, in-band and out of band management, and automatic configuration guided by policy choice.

Logical partitioning of a Bridged Local Area Network by VLAN mechanisms may be an appropriate element in a comprehensive system of user security. However, an explicit orientation of VLAN to security may conflict with primary goals of ease of use, and would be a significant addition to the scope of this project. Further work in this area may take place under a separate PAR at an appropriate time.

Consideration and accommodation of bridging techniques based on 802.1D (e.g., 802.5r Annex K) is within the scope of this PAR.

"Compatible and interoperable" includes the idea that new bridges implementing 802.1Q can be intermixed with existing 802.1D bridges in configurations with require the latter to forward but not interpret VLAN information.

"Multiple active paths within a VLAN" means multiple active paths between the same two users.