
myProject™ - P802.1X PAR Detail

Submitter Email: tony@jeffree.co.uk

Type of Project: Revision to IEEE Standard

PAR Request Date: 16-Nov-2007

PAR Approval Date: 27-Mar-2008

PAR Expiration Date: 31-Dec-2012

PAR Signature Page on File: No

Status: Revision to an Existing IEEE Standard, Std 802.1X-2004

Project: 802.1X

Root Project: 802.1X-2004

1.1 Project Number: P802.1X

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

1.4 Is this project in ballot now? No

2.1 Title: Standard for Local and metropolitan area networks - Port-Based Network Access Control **Old Title:** IEEE Standard for Local and metropolitan area networks - Port-Based Network Access Control

3.1 Working Group: Higher Layer LAN Protocols Working Group (C/LM/WG802.1)

Contact Information for Working Group Chair

Anthony Jeffree

Email: tony@jeffree.co.uk

Phone: +44-161-973-4278

Contact Information for Working Group Vice-Chair

Paul Congdon

Email: paul.congdon@hp.com

Phone: 916-785-5753

3.2 Sponsoring Society and Committee: IEEE Computer Society/Local and Metropolitan Area Networks (C/LM)

Contact Information for Sponsor Chair

Paul Nikolich

Email: p.nikolich@ieee.org

Phone: 857.205.0050

Contact Information for Standards Representative

None

4.1 Type of Ballot: Individual

4.2 Expected Date of Submission for Initial Sponsor Ballot: 07/2009

4.3 Projected Completion Date for Submittal to RevCom: 07/2010

5.1 Approximate number of people expected to work on this project: 30

5.2 Scope: For the purpose of providing compatible authentication, authorization, and cryptographic key **Old Scope:** The scope of this project is the use of the physical access characteristics of IEEE 802 LANs in order to provide a means of

agreement mechanisms to support secure communication between devices connected by 802 LANs, this standard :

authenticating and authorizing devices attached to a LAN port. The reason for revising the standard is to reflect editorial and technical corrections, and to better facilitate its use in 802.11 Wireless LANs.

- a) Specifies a general method for provision of port-based network access control.
- b) Specifies protocols that establish secure associations for IEEE Std 802.1AE MAC Security
- c) Facilitates the use of industry standard authentication and authorization protocols.

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

5.4 Purpose: IEEE 802@ Local Area Networks (LANs) are deployed in networks that convey or provide access to critical data, support mission critical applications, or charge for service. Protocols that configure, manage, and regulate access to these networks and network based services and applications run over the networks themselves. Port-based network access control regulates access to the network, guarding against transmission and reception by unidentified or unauthorized parties, and consequent network disruption, theft of service, or data loss.

Old Purpose The standard provides common interoperable solutions using standards based authentication and authorization infrastructures already supporting schemes such as dial up access. Revision is needed in order to deal with editorial and technical corrections, and also to reflect changes necessary in the light of deployment in 802.11-based infrastructures.

5.5 Need for the Project: This revision will extend 802.1X to establish security associations for 802.1AE MAC Security in order to facilitate secure communication over publicly accessible LAN/MAN media for which security has not otherwise been defined, and to allow the use of IEEE Std 802.1X, already widespread and supported by multiple vendors, in additional applications.

5.6 Stakeholders for the Standard: Designers, implementers, manufacturers, distributors, and users of local area networking equipment.

Intellectual Property

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

If yes, state date: 11/12/2007

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

6.1.c. 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 Future Adoptions

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

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: (Item Number and Explanation) The extent of changes in existing amendment project to 802.1X, P802.1af, will make very extensive changes to the base document, and such changes would be more appropriately made in a revision project. This revision project will adopt all of the changes to 802.1X that have been developed under P802.1af, and the P802.1af project will be withdrawn.