

P802.3at

Submitter Email: david_law@ieee.org

Type of Project: Modification to Approved PAR

PAR Request Date: 01-Dec-2008

PAR Approval Date: 30-Jan-2009

PAR Expiration Date: 31-Dec-2009

Status: Modification to a Previously Approved PAR for an Amendment 802.3-REVam-2005

Root PAR: P802.3at **Approved on:** 22-Sep-2005

Project Record: 802.3

1.1 Project Number: P802.3at

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Information Technology
Telecommunications and Information Exchange Between Systems
Local and Metropolitan Area Networks Specific Requirements
Part 3: Carrier Sense Multiple Access with Collision Detection
(CSMA/CD)
Access Method and Physical Layer Specifications
Amendment: Data Terminal Equipment (DTE) Power Via the
Media Dependent Interface (MDI) Enhancements

Old Title: Standard for Information
technologyTelecommunications and information exchange
between systemsLocal and metropolitan area networksSpecific
requirementsPart 3: Carrier Sense Multiple Access with Collision
Detection (CSMA/CD) access method and physical layer
specifications Amendment: DTE Power via the MDI
Enhancements

3.1 Working Group: Ethernet Working Group (C/LM/WG802.3)

Contact Information for Working Group Chair

Name: David Law

Email Address: david_law@ieee.org

Phone: +44 131 665 7264

Contact Information for Working Group Vice-Chair

Name: Wael Diab

Email Address: wael.diab@gmail.com

Phone: 4154468066

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

Contact Information for Sponsor Chair

Name: Paul Nikolich

Email Address: 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 of draft to the IEEE-SA for Initial Sponsor Ballot: 12/2008

4.3 Projected Completion Date for Submittal to RevCom: 09/2009

5.1 Approximate number of people expected to be actively involved in the development of this project: 30

5.2 Scope: The scope of this project is to augment the capabilities of the IEEE Std 802.3 standard with higher power levels and improved power management information. The project will augment the methodology for the provision of power via balanced cabling to connected Data Terminal Equipment with 802.3 interfaces. Optional augmented power limit will be made available for certain structured cabling systems. Compatibility with existing equipment will be maintained.

Old Scope: The scope of this project is to augment the capabilities of the IEEE Std 802.3 standard with higher power levels and improved power management information. The project will augment the methodology for the provision of power via balanced cabling to connected Data Terminal Equipment with 802.3 interfaces. Optional augmented power limit will be made available for certain structured cabling systems. Compatibility with existing equipment will be maintained.

5.3 Is the completion of this standard dependent upon the completion of another standard: Yes

If yes please explain: The IEEE P802.3at amendment is contingent on the completion of IEEE P802.3bc Ethernet Organizationally Specific TLVs amendment. The IEEE P802.3at amendment will contain additions to the IEEE 802.3 Organizationally Specific TLVs

(TLV: type, length, value. Information element consisting of sequential type, length, and value fields). The IEEE 802.3 Organizationally Specific TLVs are currently specified in IEEE Std 802.1AB. The IEEE P802.3bc amendment will transfer these TLVs from IEEE Std 802.1AB to IEEE Std 802.3. This transfer needs to be complete before the additional TLVs are added by the IEEE P802.3at amendment.

5.4 Purpose: The purpose of the proposed project is to include higher power applications while providing enhanced power management information to reduce total system cost.

Old Purpose: The purpose of the proposed project is to include higher power applications while providing enhanced power management information to reduce total system cost.

5.5 Need for the Project: Since the publication of IEEE Std 802.3af-2003, significant market demand has emerged for applications (e.g. multiband wireless access points and controllable security cameras) beyond the power level defined in the standard. Evolution of the installed base of structured cabling systems since the time of commencement of the IEEE 802.3af project now enables higher attainable power. The market now demands that the total system cost of augmented power levels must be mitigated through improved power management.

5.6 Stakeholders for the Standard: Ethernet component providers (e.g., cabling and integrated circuit), system product providers (e.g., switch and end stations), network providers (e.g. installers, network support, enterprise network implementers).

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: 15-Mar-2005

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 International Activities

a. Adoption

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

b. Joint Development

Is it the intent to develop this document jointly with another organization?: No

c. Harmonization

Are you aware of another organization that may be interested in portions of this document in their standardization development efforts?: No

8.1 Additional Explanatory Notes (Item Number and Explanation): There has been no change to the Title, Scope or Purpose. This modified PAR is to update the IEEE P802.3at amendment to be contingent on the IEEE P802.3bc amendment.

During this modification the opportunity was taken to:

[1] Items 4.2 and 4.3: Update target dates for initial sponsor ballot and submission to RevCom.

[2] Item 7.2: Remove the intent to submit the amendment for adoption by ISO/IEC JTC1, as part of ISO/IEC 8802-3.

[3] Item 5.1: Added the approximate number of people expected to work on the project, this question was not present on the original PAR.

[4] Item 5.6: Added the stake holders, this question was not present on the original PAR.

PICS proforma will be expanded and updated to cover the augmented capabilities provided by this project.

[5] Item 6.1: The patent slides have been reviewed at every Working Group meeting. They were most currently reviewed at the meeting held 11 November 2008 at which this PAR modification submittal was approved by the Task Force.