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22 March 2007

Paul Nikolich  
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Re: P802.3 - 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

Dear Paul:

I am pleased to inform you that on 22 March 2007 the IEEE-SA Standards Board approved the above referenced project until 31 December 2011. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/802-3.pdf>.

Now that your project has been approved, please forward a roster of participants involved in the development of this project. This request is in accordance with the IEEE-SA Operations Manual, Clause 5.1.2i under Duties of the Sponsor which states:

"Submit annually to the IEEE Standards Department an electronic roster of individuals participating on standards projects"

For your convenience, an Excel spreadsheet for your use has been posted on our website at <http://standards.ieee.org/guides/par/roster.xls>. Please forward this list to me via e-mail at [s.hampton@ieee.org](mailto:s.hampton@ieee.org) no later than 20 June 2007.

Please visit our website, IEEE Standards Development Online (<http://standards.ieee.org/resources/development/index.html>), for tools, forms and training to assist you in the standards development process. Also, we strongly recommend that a copy of your draft be sent to this office for review prior to the final vote by the working group to allow for a quick review by editorial staff before sponsor balloting begins.

If you should have any further questions, please contact me at +1 732 562 6003 or by email at [s.hampton@ieee.org](mailto:s.hampton@ieee.org).

Sincerely,

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**PAR Request Date:** 06 February 2007**PAR Approval Date:** 22 March 2007**PAR Signature Page on File:** Yes**Type of PAR:** Revision to IEEE Standard**Status:** Revision to an Existing IEEE Std 802.3-2005**Root Project:****1.1 Project No.:** **802.3****1.2 Type of Document:** Standard**1.3 Life Cycle:** Full-Use**1.4 Is this document in ballot now?** No**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

**3.1 Working Group Name** [Ethernet Working Group](#)**Working Group Chair**[Grow, Robert M](#)  
Phone: 858-679-2077  
Email: bob.grow@intel.com**Working Group Vice Chair**[Law, David J](#)  
Phone: +44-131-665-7264  
Email: david\_law@ieee.org**3.2 Sponsor** [IEEE Computer Society Local and Metropolitan Area Networks \(C/LM\)](#)**Sponsor Chair**[Nikolich, Paul](#)  
Phone: 857-205-0050  
Email: p.nikolich@ieee.org**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:** November 2007**4.3 Projected Completion Date for Submittal to RevCom:** April 2008**5.1 Approximate number of people expected to work on this project:** 200

**5.2 Scope:** This standard defines Ethernet local area, access and metropolitan area networks. Ethernet is specified at selected speeds of operation; and uses a common media access control (MAC) specification and management information base (MIB). The Carrier Sense Multiple Access with Collision Detection (CSMA/CD) MAC protocol specifies shared medium (half duplex) operation, as well as full duplex operation. Speed specific Media Independent Interfaces (MIIs) provide an architectural and optional implementation interface to selected physical layer entities (PHY). The physical layer encodes frames for transmission and decodes received frames with the modulation specified for the speed of operation, transmission medium and supported link length. Other specified capabilities include: control and management protocols and the provision of power over selected twisted pair PHY types.

**Old Scope:** This project is a revision of IEEE Std 802.3-2002 integrating approved amendments and corrigenda plus corrections and clarifications submitted as maintenance changes through the IEEE 802.3 maintenance process. This project will not add any significant new functionality.

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

Most of the link aggregation specifications contained in IEEE Std 802.3-2005 will be extracted into a separate standard as part of this revision. To assure that link aggregation is continuously specified by an IEEE 802 standard, this revision and P802.1AX are co-contingent.

**5.4 Purpose:** This standard covers a breadth of technologies, speeds and implementation options that have been specified to meet the evolving market needs for the users of Ethernet communication. Interoperability with legacy equipment is an important consideration for addition of new speeds of operation or other capabilities. Though the specifications here are independent of the medium access control client protocol, another important consideration is the ability to bridge different speed interfaces or interfaces with different media types via IEEE 802.1 standardized protocols.

**Old Purpose:** This project is expected to merge at least four amendments into the base standard. It also adds maintenance changes submitted through the IEEE 802.3 maintenance process ([www.ieee802.org/3/maint](http://www.ieee802.org/3/maint)) to fix errors and ambiguities in the published standard. This will provide a single base document for ongoing work and satisfy IEEE-SA SB requirements.

**5.5 Need for the Project:** IEEE Std 802.3-2005 will need to be revised by 2008 to allow consideration of future amendments per standards board policies. It is expected that this Revision will include the merge of IEEE Std 802.3an-2006, IEEE Std 802.3aq-2006, IEEE Std 802.3as-2006, IEEE Std 802.3-2005/Cor1-2006, IEEE Std 802.3ap-200x, and IEEE Std 802.3-2005/Cor2-200x. Because there are multiple other amendments in the "pipeline", it will be necessary to largely complete this revision during 2007 to provide a solid base for sponsor balloting of other approved amendment projects (P802.3ar, P802.3at, P802.3av). These schedule considerations require that major new capabilities or functional enhancement will have to be deferred to a future amendment project to avoid delaying approved and current proposed new projects.

**5.6 Stakeholders for the Standard:** Ethernet is pervasive, with a consequent pervasive set of stakeholders. This includes and is not limited to: component providers (e.g., optical transceivers, cabling and integrated circuit), system product providers (e.g., switch and NIC), network providers (e.g. installers, network support, enterprise network implementers), bandwidth providers (e.g., carriers), software providers (e.g., network management), providers of network powered or powering devices, and obviously the users of any of these products or services.

**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:** 2006-11-13

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: No new uses are anticipated and current uses have been previously reviewed by the RAC.

**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? ? Yes**

**Technical Committee Name and Number:** ISO/IEC JTC1 SC6 WG1

**Contact person:** [Robin Tasker](#)

**Contact person Phone Number:** +44-1925-603758

**Contact person Email Address:** R.Tasker@dl.ac.uk

**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:**

Items 5.2, 5.4 -- There currently is no scope or purpose statement in IEEE Std 802.3-2005, the "current" scope and purpose shown on this PAR are from the last revision PAR and were never intended to be included in the standard.

**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: