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Draft PAR Confirmation Number:	
Submittal Email: bob.grow@ieee.org	
Type of Project: Revision to an Existing Standard 802.3-2005	
1.1 Project Number: P802.3REV	
1.2 Type of Document: Standard for	
1.3 Life Cycle: Full	
1.4 Is this project in ballot now? No	
2.1 Title of Standard: 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	Old Title: IEEE 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 Name of Working Group: Ethernet Working Group	
Contact information for Working Group Chair Robert M Grow Email: bob.grow@ieee.org Phone:	
Contact Information for Working Group Vice Chair David J Law Email: david_law@ieee.org Phone: +44-131-665-7264	
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: Email: Phone:	
3.3 Joint Sponsor:/ () Contact information for Sponsor Chair: Email: Phone: Contact information for Standards Representative: Email: Phone:	

4.1 Type of Ballot: Individual	
4.2 Expected Date of Submission for Initial Sponsor Ballot: 2007-11	
4.3 Projected Completion Date for Submittal to RevCom: 2008-04	
5.1 Approximate number of people expected to work on this project: 200	
5.2 Scope of Proposed Standard: This standard defines Ethernet local 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 (PHY) interfaces. 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. In addition to the local area network applications, other specified capabilities include: PHY types for access networks, PHYs suitable for metropolitan area network applications, 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 standard is dependent upon the completion of another standard: Yes If yes, please explain: 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 of Proposed Standard: 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) 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.

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: 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:

and answer the following: Sponsor Organization:

Project/Standard Number:

Project/Standard Date: 0000-00-00

Project/Standard Title:

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? Yes

If Yes, the following questions must be answered:

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

Other Organization Contact Information:

Contact person: Robin Tasker

Contact 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

If yes, please explain:

7.4 Additional Explanatory Notes: (Item Number and Explanation)

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:

Contact the [NesCom Administrator](#)