Sherry Hampton/STDS/STAFF/US/IEEE
10/01/2007 07:58 PM

To p.nikolich@ieee.org
cc bob.grow@intel.com, Michael Kipness/STDS/STAFF/US/IEEE@IEEE
bcc Terry Tu Lee/STDS/STAFF/US/IEEE@IEEE; David Ringle/STDS/STAFF/US/IEEE@IEEE
Subject Approval of Project - P802.3az

01 October 2007

Paul Nikolich
18 Bishops Lane
Lynnfield, MA 01940
p.nikolich@ieee.org

Re: P802.3az - 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 - Amendment: Media Access Control Parameters, Physical Layers and Management Parameters for Energy-Efficient Ethernet

Dear Paul:

I am pleased to inform you that on 27 September 2007 the IEEE-SA Standards Board approved the above referenced project until 31 December 2011.

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"

Rosters can be submitted in any format to the NesCom Administrator (nescom-admin@ieee.org). Please forward this list to the NesCom Administrator via e-mail at nescom-admin@ieee.org no later than 26 December 2007.
Or, for your convenience, you can manage your standards development roster in myProject. Instructions are as follows:

●Go to myProject - https://development.standards.ieee.org/my-site
●Login using your IEEE Web Account username and password.
●Once logged into myProject, go to "Manage Committees"
●Drill down to the project by clicking the (+) on the left to expand each level. The actual project will be highlighted in yellow
●Click "Manage Committees" for that project. A list of individuals enrolled in the

Committee/Project will appear. On this screen you can assign whether a person is a Participant, a Non-Voting Member or a Voting Member of the project group. You may also view contact information for that individual.

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 questions, please contact the NesCom Administrator via e-mail at nescom-admin@ieee.org or via telephone at +1 732 562 3806.

Sincerely,

NesCom Admin
Standards Activities
Email: nescom-admin@ieee.org

PAR Request Date: 03 August 2007

PAR Approval Date: 27 September 2007

PAR Signature Page on File: Yes

Type of PAR: Amendment to IEEE Standard

Status: Amendment to an Existing IEEE Std 802.3-2005

Root Project:

1.1 Project No.: **802.3az**

1.2 Type of Document: Standard

1.3 Life Cycle: Full-Use

1.4 Is this document in ballot now? No

2.1 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 - Amendment: Media Access Control Parameters, Physical Layers and Management Parameters for Energy-Efficient Ethernet

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: July 2009

4.3 Projected Completion Date for Submittal to RevCom: March 2010

5.1 Approximate number of people expected to work on this project: 20

5.2 Scope: The proposed standard will include a symmetric protocol to facilitate transition to and from lower power consumption in response to changes in network demand. The transition will not cause loss of link as observed by higher layer protocols. The project will also specify PHY enhancements as required for a selected subset of PHY types to improve energy efficiency.

5.3 Is the completion of this document contingent upon the completion of another document? Yes
To meet IEEE-SA requirements for revision of a standard, this project will not go to Sponsor ballot until completion of the current revision of IEEE Std 802.3 (P802.3 and P802.1AX).

5.4 Purpose: Most Ethernet links have significant periods of low utilization or no utilization for application data traffic. This project will take advantage of this to provide energy savings in the PHY and enable energy savings in the system which will deliver reduction in total cost of operation.

5.5 Need for the Project: Market pressure and legislative action worldwide is demanding improvements in energy efficiency of networked systems. Energy costs are a major component of operating cost. Energy-Efficient Ethernet (EEE) features will be explicitly or implicitly required by a significant fraction of Ethernet edge connections in the future. Energy consumption and efficiency will become a major factor in the choice of network solutions, especially in data centers. EEE capabilities will be important as Ethernet becomes an enabler for low duty cycle, consumer class applications. EEE capabilities will enable new system level energy management techniques that will save energy beyond the network interface. EEE will address interface changes required to improve energy efficiency.

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., 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), and 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:** 2007-05-29
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:

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 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:

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: