

**Strawman Draft for HSSG Project Authorization
Request (PAR)**

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Submission Email: jdambrosia@force10networks.com
Type of Project: **Amendment to an Existing Standard 802.3-2005**

1.1 Project Number: **P802.3a?**

1.2 Type of Document: **Standard for 802.3**

1.3 Life Cycle: Full

1.4 Is this project in ballot now? No

2.1 Title of Standard: 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 100 Gb/s Operation**

3.1 Name of Working Group: Ethernet Working Group
Contact information for Working Group Chair

Robert M Grow

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Phone: 858-391-4622

Contact Information for Working Group Vice Chair

David J Law

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

Contact information for Sponsor Chair:

Paul Nikolich

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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: Mar 2009

4.3 Projected Completion Date for Submittal to RevCom: Nov 2009

5.1 Approximate number of people expected to work on this project: 80

5.2 Scope of Proposed Standard: Define 802.3 Media Access Control (MAC) parameters, physical layer specifications, and management parameters for the transfer of 802.3 format frames at 100 Gb/s over standardized fiber cabling.

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

No

If yes, please explain:

5.4 Purpose of Proposed Standard: The purpose of this project is to extend the 802.3 protocol to an operating speed of 100 Gb/s in order to provide a significant increase in bandwidth while maintaining maximum compatibility with the installed base of 802.3 interfaces, previous investment in research and development, and principles of network operation and management. The project is to provide for the interconnection of equipment satisfying the distance requirements of the intended applications.

5.5 Need for the Project: The project is necessary to provide a solution for applications that have been demonstrated to need bandwidth beyond the existing capabilities. These include data center, internet exchanges, high performance computing and video on demand delivery.

5.6 Stakeholders for the Standard: Networking system and component vendors, high performance computing vendors, telecommunications carriers, and multiple system operators (MSOs).

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: **2007-01-17**

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:

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:

Contact Email address:

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)

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: