

P802.3bj

Submitter Email: david_law@ieee.org

Type of Project: Amendment to IEEE Standard 802.3-2008

PAR Request Date: 22-Jul-2011

PAR Approval Date: 10-Sep-2011

PAR Expiration Date: 31-Dec-2015

Status: PAR for an Amendment to an existing IEEE Standard

Root Project: 802.3-2008

1.1 Project Number: P802.3bj

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

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: Physical Layer Specifications and Management Parameters for 100 Gb/s Operation Over Backplanes and Copper Cables

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

Contact Information for Working Group Chair

Name: David Law

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Contact Information for Working Group Vice-Chair

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3.2 Sponsoring Society and Committee: IEEE Computer Society/LAN/MAN Standards Committee (C/LM)

Contact Information for Sponsor Chair

Name: Paul Nikolich

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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: 07/2013

4.3 Projected Completion Date for Submittal to RevCom: 02/2014

5.1 Approximate number of people expected to be actively involved in the development of this project: 65

5.2 Scope: The scope of this project is to specify additions to and appropriate modifications of IEEE Std 802.3 to add 100 Gb/s 4 lane Physical Layer (PHY) specifications and management parameters for operation on backplanes and twinaxial copper cables.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: This document will not include a purpose clause.

5.5 Need for the Project: Rapid growth of server, network, and internet traffic is driving the need for higher data rates over backplanes and high density, low cost twinaxial copper cables.

- IEEE Std 802.3 does not currently support 100Gb/s operation on backplane media.

- There is a market need for a lower cost, lower power, and higher density solution for twinaxial copper cables than 100GBASE-CR10.

5.6 Stakeholders for the Standard: Stakeholders identified to date includes but are not limited to: users and producers of systems and components for servers, network storage, networking systems, data centers, high performance computing, and telecommunications carriers.

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No

6.1.b. 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 Joint Development

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

8.1 Additional Explanatory Notes (Item Number and Explanation): Item 0: As always for an IEEE 802.3 amendment this amendment will be to the then-current-revision at the beginning of sponsor ballot.