

# P802.3bj

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**Submitter Email:** [david\\_law@ieee.org](mailto:david_law@ieee.org)

**Type of Project:** Modify Existing Approved PAR

**PAR Request Date:** 18-Jul-2012

**PAR Approval Date:**

**PAR Expiration Date:**

**Status:** Unapproved PAR, Modification to a Previously Approved PAR for an Amendment

**Root PAR:** P802.3bj **Approved on:** 10-Sep-2011

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**1.1 Project Number:** P802.3bj

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

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

**Changes in 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

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

**Contact Information for Working Group Chair**

**Name:** David Law

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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

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**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

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

**5.2.a. Scope of the complete standard:** 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, and specify optional Energy Efficient Ethernet (EEE) for 40 Gb/s and 100Gb/s operation over backplanes and copper cables.

**Changes in 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, and specify optional Energy Efficient Ethernet (EEE) for 40 Gb/s and 100Gb/s operation over backplanes and copper cables.

**5.2.b. Scope of the project:**

**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.

**Changes in purpose:**

**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.

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**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

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**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

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**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. The amendment will comply with IEEE Std 802, IEEE Std 802.1D, and IEEE Std 802.1Q.