

# P802.1AXbq

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**Type of Project:** Amendment to IEEE Standard 802.1AX-2008

**PAR Request Date:** 15-Mar-2011

**PAR Approval Date:**

**PAR Expiration Date:**

**Status:** Unapproved PAR, PAR for an Amendment to an existing IEEE Standard

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**1.1 Project Number:** P802.1AXbq

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

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**2.1 Title:** Standard for Local and metropolitan area networks--Link AggregationAmendment: Distributed Resilient Network Interconnect

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

**Contact Information for Working Group 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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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:** 03/2014

**4.3 Projected Completion Date for Submittal to RevCom:** 08/2014

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**5.1 Approximate number of people expected to be actively involved in the development of this project:** 50

**5.2 Scope:** This standard enhances Link Aggregation, its protocols, procedures and managed objects, to provide a resilient interconnect using multiple links among one or more nodes in a network and one or more nodes in another, separately administered, network. The DRNI preserves the Link Aggregation model of establishing a single logical link consisting of multiple links, and will be backward compatible with existing conformant implementations of Link Aggregation. The DRNI will specify a means to ensure that frames belonging to any given service will use the same physical path in both directions between the two networks.

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

**5.4 Purpose:** The purpose of this amendment is to enhance Link Aggregation so that a set of physical and/or virtual bridge components or end stations provide a redundant connection between two separately administered networks. The DRNI enables the independence of the networks' management and control protocols, isolates each from the other's fault recovery events, and can forward data frames belonging to any given service over the same physical path in both directions between the two networks.

**5.5 Need for the Project:** There is no current standard that permits networks with independent control protocols to exchange IEEE 802 data through redundant nodes. At the present time, either changes to the active topology of one network, caused by component faults, fault recovery, or administrative changes can trigger consequent alterations in a neighboring network, or else the connection between the networks is subject to being severed by a single failure.

**5.6 Stakeholders for the Standard:** Developers, distributors, and users of networking equipment and services.

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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):**