

P802.1CB??

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Type of Project: Amendment to IEEE Standard 802.1CB-2017

PAR Request Date: 14-Dec-2017

PAR Approval Date:

PAR Expiration Date:

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

1.1 Project Number: P802.1CB??

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Draft Standard for Local and metropolitan area networks -- Frame Replication and Elimination for Reliability Extended Stream Identification Function

3.1 Working Group: Higher Layer LAN Protocols Working Group (C/LM/WG802.1)

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)

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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:

4.3 Projected Completion Date for Submittal to RevCom

Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.:

5.1 Approximate number of people expected to be actively involved in the development of this project: 20

5.2.a. Scope of the complete standard: This standard specifies procedures, managed objects and protocols for bridges and end stations that provide:

- Identification and replication of frames, for redundant transmission.
- Identification of duplicate frames.
- Elimination of duplicate frames.

5.2.b. Scope of the project: This amendment specifies protocols, procedures and managed objects that support (a) stream identification function(s), based on configurable frame parameters and protocol fields, that complements the stream identification functions already specified in Clause 6.

This (these) function(s) allow(s) to better take into account the nature of the application data transported over the streams.

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: Stream identification is required by an increasing number of traffic management

mechanisms implemented in Layer 2 : ingress policing, traffic scheduling, congestion management, mapping to traffic classes, that make Ethernet networks adapted for an increasing number of high-performance applications. Stream identification mechanisms adapted to the variety of these existing applications, and those still to be developed, will further help broaden the application domains of Ethernet networks.

5.6 Stakeholders for the Standard: Developers, providers, and users of networking services and equipment for Industrial Automation, In-vehicle networking, Professional Audio-Video (AV), Data Center and other systems requiring application-based traffic classification, including networking integrated circuit (IC) developers, bridge and network interface card (NIC) vendors, and users.

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: