P802.1CB

Type of Project: Revision to IEEE Standard 802.1CB-2017
Project Request Type: Initiation / Revision
PAR Request Date:
PAR Approval Date:
PAR Expiration Date:
PAR Status: Draft
Root Project: 802.1CB-2017

1.1 Project Number: P802.1CB
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Project Title: Standard for Local and metropolitan area networks--Frame Replication and Elimination for Reliability

    Change to Title: ~~IEEE~~ Standard for Local and metropolitan area networks--Frame Replication and Elimination for Reliability

3.1 Working Group: Higher Layer LAN Protocols Working Group(C/LAN/MAN/802.1 WG)
    3.1.1 Contact Information for Working Group Chair:
      Name: Glenn Parsons
      Email Address: glenn.parsons@ericsson.com
    3.1.2 Contact Information for Working Group Vice Chair:
      Name: Jessy Rouyer
      Email Address: jessy.rouyer@nokia.com
3.2 Society and Committee: IEEE Computer Society/LAN/MAN Standards Committee(C/LAN/MAN)
    3.2.1 Contact Information for Standards Committee Chair:
      Name: James Gilb
      Email Address: gilb_ieee@tuta.com
    3.2.2 Contact Information for Standards Committee Vice Chair:
      Name: David Halasz
      Email Address: dave.halasz@ieee.org
    3.2.3 Contact Information for Standards Representative:
      Name: George Zimmerman
      Email Address: george@cmephyconsulting.com

4.1 Type of Ballot: Individual
4.2 Expected Date of submission of draft to the IEEE SA for Initial Standards Committee Ballot: Mar 2027
4.3 Projected Completion Date for Submittal to RevCom: Nov 2027

5.1 Approximate number of people expected to be actively involved in the development of this project: 30
5.2 Scope of proposed standard: This standard specifies procedures, managed objects, and protocols for bridges and end systems that provide identification and replication of packets for redundant transmission, identification of duplicate packets, and elimination of duplicate packets. It is not concerned with the creation of the multiple paths over which the duplicates are transmitted.

5.3 Is the completion of this standard contingent upon the completion of another standard? No
5.4 Purpose: This document will not include a purpose clause.
5.5 Need for the Project: This revision project is needed to incorporate approved amendments and corrigenda, to incorporate technical and editorial corrections to existing functionality, and to maintain consistency in the consolidated text.
Change to Need for the Project: ~~There~~ This ~~are~~ revision ~~no~~ project ~~other~~ is ~~802-compatible~~ needed ~~solutions~~ to ~~providing~~ incorporate ~~fault~~ approved ~~tolerance~~ amendments ~~without~~ and ~~failover.~~ corrigenda, ~~To~~ to ~~achieve~~ incorporate ~~this,~~ technical ~~it~~ and ~~is~~ editorial ~~necessary~~ corrections to ~~create~~ existing functionality, and ~~eliminate~~ to ~~duplicate~~ maintain ~~frames. This can be done~~ consistency in ~~end stations~~ the ~~and~~ consolidated ~~bridges~~ text .
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) and other

systems requiring high availability traffic, including networking integrated circuit (IC) developers, bridge and network interface card (NIC) vendors, and users.

6.1 Intellectual Property

6.1.1 Is the Standards Committee aware of any copyright permissions needed for this project?
No
6.1.2 Is the Standards Committee aware of possible registration activity related to this project?
No

7.1 Are there other standards or projects with a similar scope? Yes

Explanation: IEC 62439-3 defines high-availability mechanisms in automation networks, but it is restricted to ring topologies, whereas this standard works on all LAN topologies.

Change to Explanation: IEC 62439-3 defines high-availability mechanisms in automation networks, but it is restricted to ring topologies, whereas this ~~amendment~~ standard ~~will work~~ works on all LAN topologies.

7.1.1 Standards Committee Organization: IEC
Project/Standard Number: 62439-3
Project/Standard Date:
Project/Standard Title: IEC 62439-3, Parallel Redundancy Protocol (PRP) and High availability Seamless Redundancy (HSR)

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

8.1 Additional Explanatory Notes: