PCB

Submitter Email: tony@jeffree.co.uk
Type of Project: New IEEE Standard
PAR Request Date: 20-Mar-2013
PAR Approval Date:
PAR Expiration Date:
Status: Unapproved PAR, PAR for a New IEEE Standard

1.1 Project Number: PCB
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Frame Replication and Elimination for Reliability

3.1 Working Group: Higher Layer LAN Protocols Working Group (C/LM/WG802.1)
Contact Information for Working Group Chair
  Name: Anthony Jeffree
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  Name: Glenn Parsons
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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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4.1 Type of Ballot: Individual
4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 06/2016
4.3 Projected Completion Date for Submittal to RevCom: 02/2017

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

5.3 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: There are no other 802-compatible solutions providing fault tolerance without failover. To achieve this, it is necessary to create and eliminate duplicate frames. This can be done in end stations and bridges.

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.

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?: Yes
If Yes please explain: IEC 62439-3 defines high-availability mechanisms in automation networks, but it is restricted to ring topologies, whereas this amendment will work on all LAN topologies.

and answer the following
  Sponsor Organization: IEC
  Project/Standard Number: 62439-3
  Project/Standard Date: 07-May-2012
  Project/Standard Title: IEC 62439-3, Parallel Redundancy Protocol (PRP) and High availability Seamless Redundancy (HSR)
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):