

P802.17

Submitter Email: jlemon@ieee.org

Type of Project: Revision to IEEE Standard 802.17-2004

PAR Request Date: 07-Oct-2009

PAR Approval Date:

PAR Expiration Date:

Status: Unapproved PAR, PAR for a Revision to an existing IEEE Standard 802.17-2004

1.1 Project Number: P802.17

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Information Technology - Telecommunications and Information Exchange Between Systems - Local and Metropolitan Area Networks - Specific Requirements - Part 17: Resilient Packet Ring (RPR) Access Method and Physical Layer Specifications

Old Title: IEEE Standard for Information Technology - Telecommunications and Information Exchange Between Systems - Local and Metropolitan Area Networks - Specific Requirements - Part 17: Resilient Packet Ring (RPR) Access Method and Physical Layer Specifications

3.1 Working Group: Resilient Packet Ring Working Group (C/LM/WG802.17)

Contact Information for Working Group Chair

Name: John Lemon

Email Address: jlemon@ieee.org

Phone: 408-314-5254

Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE Computer Society/Local and Metropolitan Area Networks (C/LM)

Contact Information for Sponsor Chair

Name: Paul Nikolich

Email Address: p.nikolich@ieee.org

Phone: 857.205.0050

Contact Information for Standards Representative

None

4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 04/2010

4.3 Projected Completion Date for Submittal to RevCom: 12/2010

5.1 Approximate number of people expected to be actively involved in the development of this project: 10

5.2 Scope: This standard defines a resilient packet ring access protocol for use in local, metropolitan, and wide area networks, along with appropriate physical layer specifications for transfer of data packets at rates scalable to multiple gigabits per second.

Old Scope: Define a Resilient Packet Ring Access Protocol for use in Local, Metropolitan, and Wide Area Networks, along with appropriate Physical Layer specifications for transfer of data packets at rates scalable to multiple gigabits per second.

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

5.4 Purpose: The standard defines a very high-speed network protocol that is optimized for packet transmission in resilient ring topologies needing service quality differentiation, efficient use of bandwidth, fair use of bandwidth, ease of use, and robustness.

Old Purpose: The standard will define a very high-speed network protocol that is optimized for packet transmission in resilient ring topologies. Current standards are either optimized for TDM transport, or optimized for mesh topologies. There is no high-speed (greater than 1 billion bits per second) networking standard in existence, which is optimized for packet transmission in ring

topologies.

5.5 Need for the Project: This revision will incorporate amendments approved since the base standard was published, and correct all known issues addressed by resolved 802.17 maintenance reports.

5.6 Stakeholders for the Standard: Manufacturers, service providers, and users of components, equipment, and services based on resilient ring technology.

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 International Activities

a. Adoption

Is there potential for this standard (in part or in whole) to be adopted by another national, regional or international organization?: No

b. Joint Development

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

c. Harmonization

Are you aware of another organization that may be interested in portions of this document in their standardization development efforts?: No

8.1 Additional Explanatory Notes (Item Number and Explanation):