P802

Submitter Email: pthaler@broadcom.com
Type of Project: Amendment to IEEE Standard 802-2014
PAR Request Date: 11-Sep-2014
PAR Approval Date:
PAR Expiration Date:
Status: Unapproved PAR, PAR for an Amendment to an existing IEEE Standard

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

2.1 Title: Standard for Local and Metropolitan Area Networks: Overview and Architecture
Amendment Local MAC Address Usage

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)
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: 07/2016
4.3 Projected Completion Date for Submittal to RevCom: 10/2016

5.1 Approximate number of people expected to be actively involved in the development of this project: 40
5.2.a. Scope of the complete standard: This standard contains descriptions of the IEEE 802(R) standards published by the IEEE for frame-based data networks as well as a reference model (RM) for protocol standards. The IEEE 802 architecture is defined, and a specification for the identification of public, private, and standard protocols is included.

5.2.b. Scope of the project: The amendment will provide usager recommendations for the local address space.. The recommendations will make a portion of the address space available for protocols using a Company ID in the upper 24 bits of the address. Another portion of the local address space will be for assignment by local administrators.

5.3 Is the completion of this standard dependent upon the completion of another standard: No
5.4 Purpose: This standard serves as the foundation for the family of IEEE 802 standards published by IEEE for local area networks (LANs), metropolitan area networks (MANs), personal area networks (PANs), and regional area networks (RANs).

5.5 Need for the Project: Currently, global addresses are assigned to most IEEE 802 end stations and bridge ports. Increasing use of virtual machines and devices in the Internet of Things (IoT) could exhaust the global address space if global addresses are assigned. This project will enable protocols that automatically configure addresses from a portion of the local address space. Such protocols will allow virtual machines and IOT devices to obtain a local address without local administration.

5.6 Stakeholders for the Standard: Developers, providers, and users of networking services and equipment for IOT (including Industrial Automation, Transportation networking, Smart Grid) and of operating systems, hypervisors and orchastration systems for virtual machines. This includes software developers, networking IC
developers, bridge and 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?: Yes
If yes please explain: This project is related to the Company IDs (CIDs) recently added to the Regeistration Authority.

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 (Item Number and Explanation):