

September, 2013

IEEE P802. 15-13-0580-01-0000

**IEEE P802.15  
Wireless Personal Area Networks**

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Project	IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)		
Title	EUI-64 to EUI-48 bridging PAR		
Date Submitted	September, 2013		
Source	[James Gilb] [] [San Diego, CA]	Voice: [] Fax: [] E-mail: [last name at ieee dot org]	
Re:			
Abstract	PAR to support bridging between EUI-64 addressed networks and EUI-48 addressed networks.		
Purpose			
Notice	This document has been prepared to assist the IEEE P802.15. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.		
Release	The contributor acknowledges and accepts that this contribution becomes the property of IEEE and may be made publicly available by P802.15.		

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# P802.1ACcf

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**Submitter Email:** [gilb@ieee.org](mailto:gilb@ieee.org)

**Type of Project:** Amendment to IEEE Standard 802.1AC-2012

**PAR Request Date:** 19-Sep-2013

**PAR Approval Date:**

**PAR Expiration Date:**

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

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**1.1 Project Number:** P802.1ACcf

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

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**2.1 Title:** Standard for Local and metropolitan area networks-Media Access Control (MAC) Service Definition Amendment: Bridging EUI-48 addresses networks to EUI-64 addressed networks.

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**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:** 07/2015

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

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**5.1 Approximate number of people expected to be actively involved in the development of this project:** 30

**5.2.a. Scope of the complete standard:** The scope of this standard is to define the Media Access Control (MAC) Service provided by all IEEE 802(R)MACs, and the Internal Sublayer Service (ISS) provided within MAC Bridges, in abstract terms of the following:

a) Their semantics, primitive actions, and events; and

b) The parameters of, interrelationship between, and valid sequences of these actions and events.

**5.2.b. Scope of the project:** This amendment defines a new method to use the existing features of IEEE 802.1 bridging to allow bridging between a network that uses EUI-48 addressing and another network that uses EUI-64 addressing.

**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:** The 802.1 standards provide a rich set of bridging protocols and services for EUI-48 addressed networks. However, these capabilities are not available to bridge between EUI-64 addressed networks and EUI-48 addressed networks. There are many large networks currently deployed that use EUI-64 addressing and they would benefit from being able to use the bridging capabilities of 802.1AC to connect with EUI-48 addressed networks.

**5.6 Stakeholders for the Standard:** The stakeholders include, but are not limited to, manufacturers and users of telecom, medical, environmental, energy, and consumer electronics equipment and manufacturers and users of equipment involving the use of wireless sensor and

control networks. Manufacturers, distributors, and users of IEEE 802 MACs. Standards developers that are developing MAC standards.

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**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

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**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

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**8.1 Additional Explanatory Notes (Item Number and Explanation):**