

# P1609.2

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

**Type of Project:** Revision to IEEE Standard 1609.2-2013

**PAR Request Date:** 19-Oct-2014

**PAR Approval Date:** 10-Dec-2014

**PAR Expiration Date:** 31-Dec-2018

**Status:** PAR for a Revision to an existing IEEE Standard

**Root Project:** 1609.2-2013

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**1.1 Project Number:** P1609.2

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

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**2.1 Title:** Standard for Wireless Access in Vehicular Environments - Security Services for Applications and Management Messages

**Changes in title:** ~~IEEE~~ Standard for Wireless Access in Vehicular Environments – Security Services for Applications and Management Messages

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**3.1 Working Group:** Dedicated Short Range Communication Working Group (VT/ITS/1609\_WG)

**Contact Information for Working Group Chair**

**Name:** Thomas Kurihara

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**Contact Information for Working Group Vice-Chair**

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**3.2 Sponsoring Society and Committee:** IEEE Vehicular Technology Society/Intelligent Transportation Systems (VT/ITS)

**Contact Information for Sponsor Chair**

**Name:** Otman Basir

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**Contact Information for Standards Representative**

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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:** 01/2016

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**5.1 Approximate number of people expected to be actively involved in the development of this project:** 24

**5.2 Scope:** This standard defines secure message formats and processing for use by Wireless Access in Vehicular Environments (WAVE) devices, including methods to secure WAVE management messages and methods to secure application messages. It also describes administrative functions necessary to support the core security functions.

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

**5.4 Purpose:** The safety-critical nature of many Wireless Access in Vehicular Environments (WAVE) applications makes it vital that services be specified that can be used to protect messages from attacks such as eavesdropping, spoofing, alteration, and replay. Additionally, the fact that the wireless technology will be deployed in communication devices in personal vehicles as well as other portable devices, whose owners have an expectation of privacy, means that in as much as possible the security services must be designed to respect privacy and not leak personal, identifying, or linkable information to unauthorized parties. This standard describes security services for WAVE management messages and application messages designed to meet these goals.

**5.5 Need for the Project:** Deploying wireless communication devices in vehicles will provide vehicle safety alerts to its operators and also provide access to information services and assistance to reach travel destinations safely. Securing of application messages and administrative messages is essential to the success of the Intelligent Transportation Systems initiative of the U.S. Department of Transportation. Revision

takes into consideration Vehicle-Infrastructure Integration project experience using the trial-use standard and requirements identified during the development of the trial-use standard.

Revision considers the requirements in support of the NHTSA proposed rule-making for vehicle-to-vehicle communications.

**5.6 Stakeholders for the Standard:** The stakeholders for the project are the U.S. Department of Transportation Joint Intelligent Transportation Systems Office, automobile manufacturers, State and local transportation officials, toll authorities and toll tag manufacturers, public safety officials, commercial vehicle manufacturers, and public transit officials.

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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):** Revision is proposed to meet the requirements presented to the P1609.2 WG in support of the NHTSA Notice for Proposed Rule-Making (NPRM) in 2015.

Testing of 5.9GHz radio system products, including security provisions, are managed under contract by Omni-Air. Testing requirements have been developed by Omni-Air and a representative involved in the testing program is a member of the IEEE P1609.2 Working Group.

Harmonization activities are being conducted under the auspices of the US-EU harmonization Task Force including experts from IEEE P1609.2 Working Group and of the ETSI TC-ITS WG5 and facilitate collaboration among SDOs.

VTS Sponsor has designated a VT/ITS Sponsor, T. M. Kurihara, +1 703 516 9650 +1 703 516 9650

VTS Sponsor has changed to Otman Basir, obasir@uwaterloo.ca, replaces Dennis Bodson

I do not have a telephone number for Otman Basir, but can request one following the submission of this PAR.