

2019-03-26 Liaison response from IEEE 802.11 Working Group to IEEE 1609 re: IEEE 1609 WG Reply to IEEE 802.11 Liaison Communication Related to Next Generation V2X (NGV) use cases and requirements

TO: Thomas M Kurihara, Chair, IEEE VT/ITS 1609 Working Group t.kurihara@ieee.org

FROM: Dorothy Stanley, IEEE 802.11 Working Group Chair, dstanley@ieee.org

CC:

- IEEE VTS President, Alexander Wyglinski (alexw@wpi.edu)
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- Paul Nikolic, IEEE 802 chair, p.nikolic@ieee.org
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- Robert Stacey, Vice-Chair, IEEE 802.11 WLAN Working Group robert.stacey@intel.com
- Bo Sun, Chair IEEE TGbd, sun.bo1@zte.com.cn
- John Kenney, Liaison official IEEE 802.11 WG to IEEE 1609 WG, jkenney@us.toyota-itc.com

SUBJECT: IEEE 802.11 Working Group Reply to the IEEE (VT/ITS) 1609 Working Group Liaison Statement on: Next Generation V2X (NGV) use cases and requirements

Dear Tom,

The IEEE 802.11 Working Group (WG) is pleased to inform the IEEE Vehicular Technology/Intelligent Transportation System (VT/ITS) 1609 WG that the “Enhancements for Next Generation Vehicle-to-Everything (V2X)” (NGV) amendment Project Authorization Request (PAR), [P802.11bd](#), has been approved and that development of the amendment is underway.

The 802.11 WG thanks the IEEE 1609 WG for establishing a subcommittee to reply to our liaison statement that requested feedback on the NGV usage scenarios [1] and for the information provided in your response Liaison Statement [2].

1. The 802.11 WG agrees with the IEEE 1609 WG position that a WAVE device based on the existing IEEE 802.11p™-2010 amendment will meet the current requirements of planned WAVE systems and deployments.
2. The 802.11 WG is encouraged by the IEEE 1609 WG support of P802.11bd to improve and enhance the operations and performance capabilities of IEEE Std P802.11™-2016 to address the use cases [4].
3. The 802.11 WG understands the need for interoperability, co-existence, backward compatibility and fairness between devices based on IEEE Std 802.11p™-2010 and any new capabilities and features introduced by the new amendment. In support of this understanding, the 802.11 WG has agreed to the following requirement [3]: **“The IEEE 802.11bd amendment shall provide interoperability, coexistence, backward compatibility, and fairness with deployed OCB (Outside the Context of a BSS) devices.”**

4. The 802.11 WG understands that the new capabilities and features being developed for the P802.11bd amendment may have impact on IEEE 1609 standards and support that exchange of information is critical to both the IEEE 802.11 and IEEE 1609 WGs. To enable the exchange of information, we support:
 - a. Frequent Liaison Statements – to inform and provide feedback on requirements and features as they are developed.
 - b. Appointment of a Liaison to provide direct communication between the two groups.
 - c. The possibility of establishing joint conference calls, to provide direct communication between the participating individuals.
 - d. The possibility of joint F2F meetings.

Note that all related contributions and working documents are publicly available on the IEEE Mentor server: https://mentor.ieee.org/802.11/documents?is_group=00bd and all TGbd conference calls are open. The time and details of TGbd conference calls are provided on the IEEE 802.11 WG calendar (located on right hand side of the web page): <http://grouper.ieee.org/groups/802/11/> .

We suggest that:

1. A Liaison be appointed between IEEE 802.11 WG and IEEE 1609 WG. John Kenney is the liaison from IEEE 802.11 to IEEE 1609, John's contact email is jkenney@us.toyota-itc.com .
2. Quarterly joint conference calls be arranged and
 - a. Propose that the first call be on 2 May 2019 at 20:00 EDT.
 - b. Propose that the agenda be arranged by the Chairs of the IEEE 802.11 TGbd task Group and IEEE 1609 WG.
3. A face-to-face joint meeting be planned. We propose a one day meeting in coordination with the planned 802 Interim meeting 12-17 January 2020, in Irvine, California, USA.

Please contact myself or Bo Sun, IEEE TGbd Chair, sun.bo1@zte.com.cn with any questions.

Regards,

/s/

Dorothy Stanley (dstanley@ieee.org)
IEEE 802.11 WG Chair

References:

- [1] IEEE 1609 WG: "Liaison from IEEE 1609 WG re: NGV Use cases and requirements", [11-19/0027r0](#)
- [2] IEEE 802.11 WG: "Liaison requesting feedback on NGV usage scenarios", [Liaison](#), (approved in 802.11 WG as [11-18/1303r2](#))
- [3] IEEE 802.11 TGbd: "TGbd definitions and requirements", [11-19/0202r1](#)
- [4] IEEE 802.11 NGV SG: "NGV SG Use Cases", [11-18/1323r2](#)

Dates of future IEEE 802.11 WG Meetings:

802 Interim: 12-17 May 2019, Grand Hyatt Atlanta in Buckhead, Atlanta, Georgia, USA
802 Plenary: 14-19 July 2019, Austria Center Vienna, Vienna, Austria
802 Interim: 15-20 September 2019, Marriott Hanoi, Hanoi, Vietnam
802 Plenary: 10-15 November 2019, Hilton Waikoloa Village, Kona, HI, USA
802 Interim: 12-17 January 2020, Hotel Irvine, Irvine, California, USA
802 Plenary: 15-20 March 2020, Hilton Atlanta, Atlanta Georgia, USA