

Liaison Statement from IEEE 802.11 Working Group to the CAR 2 CAR Communication Consortium

Source: IEEE 802.11 Working Group¹
Date: November 2018

To: Niels Peter Skov Andersen npa@car-2-car.org

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

Subject: **Reply Liaison Statement on Next Generation V2X (NGV) Use Cases and Requirements**

Dear Niels Peter,

The IEEE 802.11 Working Group (WG) thanks the CAR 2 CAR Communication Consortium for sharing its views on the development of the 802.11 NGV amendment, as described in the 2018 October liaison communication.²

The IEEE 802.11 WG will take into account the views conveyed by the CAR 2 CAR Communication Consortium regarding the new amendment. It is not IEEE 802.11 WG's intent to replace or supplant the existing IEEE 802.11p amendment, but rather to enhance existing mechanisms by providing new capabilities and features that are compatible with

¹ This document represents the views of the IEEE 802.11 Working Group, and does not necessarily represent a position of the IEEE, the IEEE Standards Association, or IEEE 802.

² See: <https://mentor.ieee.org/802.11/dcn/18/11-18-1754-01-0000-2018-10-liaison-from-car-2-car-consortium-re-ngv-use-cases-and-requirements.docx>.

those in the existing amendment. It is good to know that IEEE 802.11p capabilities meet all use case requirements for Day 1 and Day 2 deployments. The NGV amendment mechanisms are expected to:

1. Be backward compatible and coexistent with IEEE 802.11p in all the channels in the 5.9 GHz band.
2. Provide features which are compatible with IEEE 802.11p features and provide mechanisms that allow existing and future deployed IEEE 802.11p devices to continue to operate efficiently in the presence of NGV capable devices.
Note: The IEEE 802.11 WG does not provide conformance test specifications.
3. Include NGV transmission mechanisms which are detectable by IEEE 802.11p devices.
4. Enable an NGV capable device to indicate that it is NGV capable.

The IEEE 802.11 WG also thanks CAR 2 CAR Communication Consortium for supporting the addition of the latest PHY and MAC techniques and positioning capability in an NGV amendment, so that IEEE 802.11 NGV amendment can provide a seamless evolution path for IEEE 802.11-based V2X communications.

Date of Next IEEE 802.11 WG Meetings:

802 Interim: 13-18 January 2019, Hilton St Louis at the Ballpark, St. Louis, Illinois, USA
802 Plenary: 10-15 March 2019, Hyatt Regency Vancouver & Fairmont Hotel Vancouver, Vancouver, CA

Sincerely,

Dorothy Stanley

Chair, IEEE 802.11 WLAN Working Group