IEEE P802.11
Wireless LANs

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| 802.11Liaison statement from ETSI TC ITS |
| Date: 2018-04-19 |
| Author(s): |
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**Abstract**

This document contains a liaison statement received from ETSI TC ITS in response to email notification from the 802.11 WG chair (based on member input March 2018) of formation of the Next Generation V2X Study Group.

The liaison is embedded below and reproduced on the following pages.

The email notification is also included.



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|   **ITS(18)030032r1**  **LIAISON STATEMENT** Title: To IEEE 802.11 working group on SG NGV  Date: 13. April 2018  From (source): ETSI TC ITS  Contact(s): Chairman Mr. Niels Peter Skov Andersen, (npa@anemonetechnology.com)  **To:** IEEE802.11 WG Chairperson Dorothy Stanley, (dstanley@ieee.org )  **Copy to:** ETSI ERM TG37, Chairman Mr. Hans Johansson (hans.johansson@kapsch.net) ETSI Technical officer TC ITS, Mr. Andrea Lorelli (andrea.lorelli@etsi.org) Car 2 Car Communication Consortium (npa@anemonetechnology.com) IEEE 1609 WG (tkstds@mindspring.com )  Response to: (if applicable)  Attachments: (if applicable)   Dear Dorothy, Thank you very much for informing ETSI TC ITS about the new Study Group in IEEE802.11 on Next Generation Vehicular (SG NGV). During the last ETSI TC ITS meeting #30 (09.4 – 13.4.2018) in Sophia Antipolis your information has been discussed. ETSI TC ITS is interested in the creation of the new Study group in support of the future development and backward compatible evolution of the V2X communication. ETSI TC ITS would kindly like to propose to consider the following points during the development process in order to guarantee a smooth integration and deployment of the NGV system in the existing vehicular communication environment based on the IEEE802.11 specification (802.11p as part of 802.11-2016 used in ETSI ITS-G5 and IEEE WAVE): * IEEE802.11 SG NGV should focus on evolutions of the existing IEEE V2X systems that will support full backward compatibility and interoperability with existing deployed implementation based on IEEE802.11-2016 (e.g. IEEE WAVE and ETSI ITS-G5)
* Existing applications that use current version of IEEE 802.11p should always be capable of using the actual version of 11p or the updated fully interoperable update
* Non interoperable enhancements like LDPC codes should be carefully investigated for new applications requiring these features
* New use cases and frequency bands should be investigated
* A close cooperation with IEEE 1609, ETSI TC ITS, C2C-CC should be envisaged.
* Existing regulatory restrictions in the different regions should be taken into account.

For your information please find the upcoming TC ITS meeting schedule for 2018.  Best Regards,  Niels Peter Skov Andersen Chairman ETSI TC ITS  Next TC ITS meetings: TC ITS#31: 25. – 29. June 2018 at ETSI HQ, Sophia Antipolis, France TC ITS#32: 08. – 12. October 2018 at ETSI HQ, Sophia Antipolis, France |

Email notification:

From: **Dorothy Stanley** <dstanley@ieee.org>
Date: Fri, Mar 30, 2018 at 8:24 AM
Subject: IEEE 802.11 Working Group NGV SG Formation: Next Generation V2X project (NGV) Study Group
To: <list of email addresses>
Cc: sun.bo1@zte.com.cn

To:

Niels Peter Skov ANDERSEN, ETSI ITS Chairman
Lan LIN, ETSI TC ITS Working Group 1 Chairman
Knut EVENSEN, ETSI TC ITS Working Group 2 Chairman
Andreas FESTAG, ETSI TC ITS Working Group 3 Chairman
Hans JOHANSSON, ETSI ITS Working Group 4 Chairman
Brigitte LONC, ETSI ITS Working Group 5 Chairman

Dear Niels Peter, Lan, Knut, Andreas, Hans and Brigitte,

I am sending this email to inform you that the IEEE 802.11 Working Group has formed a Study Group (SG) to consider a Next Generation V2X (NGV) project. The motivation for and goals of formation of the NGV SG are outlined in <https://mentor.ieee.org/802.11/dcn/18/11-18-0513-02-0wng-802-11-for-next-generation-v2x-communication.pptx> and briefly summarized below:

The NGV effort will examine increasing throughput and range through adding enhanced PHY techniques to the DSRC ecosystem. Significant improvements to 802.11 technology have been developed over the last 10 years as IEEE 802.11n/ac have come to market; the upcoming IEEE P802.11ax standard will add even more enhancements.

Current DSRC V2X technology is based on IEEE Std 802.11p-2010 which was derived from IEEE Std 802.11a-1999; the IEEE Std 802.11p-2010 standard has been available for almost a decade and has been extensively tested.  The IEEE 802.11 NGV work will define enhancements to the existing IEEE 802.11p PHY/MAC to address future needs for V2X communication technology.

IEEE 802.11 technologies have a long history of backward compatibility; the NGV program will have compatible modes with the existing 802.11p PHY signals while adding new PHY enhancements.

The NGV Study Group will begin meeting to develop a Project Authorization Request (PAR) at the upcoming May 6-11, 2018 meeting in Warsaw Poland. Session information is available here: <http://www.ieee802.org/11/Meetings/Meeting_Plan.html> .

Please feel free to contact myself or Bo Sun (NGV SG Chair, sun.bo1@zte.com.cn) with any questions.

Best regards,

Dorothy Stanley
IEEE 802.11 Working Group Chair

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