



**SUBJECT: IEEE 1609 WG Liaison Message to 3GPP regarding defined values for V field in the Release 14 specification of MAC header.**

**DATE:** October 6, 2020

**FROM:** IEEE Vehicular Technology/Intelligent Transportation System (VT/ITS) 1609 Working Group

**TO:** 3GPP RAN2, via 3GPP Liaisons Coordinator ([3GPPLiaison@etsi.org](mailto:3GPPLiaison@etsi.org))

**COPY TO:** 3GPP RAN, 3GPP RAN1, IEEE VTS President, Abbas Jamalipour ([a.jamalipour@gmail.com](mailto:a.jamalipour@gmail.com))

The IEEE 1609 Working Group (WG) understands that the 3GPP Release 14 specification of E-UTRA MAC protocol defines only one value of the V field (i.e., 0b0011) to be used when the DST field is 24 bits (see 3GPP TS 36.321 V14.12.0 (2019-12), clause 6.2.4), which does not support using the V field to indicate whether the Destination Layer-2 carried in a 24-bit DST field is a groupcast identifier or a unicast identifier. The ability to distinguish between groupcast identifiers and unicast identifiers is believed to be a useful feature extension for deployments based on Release 14 LTE-V2X in order to better support a wide range of applications and services.

The IEEE 1609 WG has noted that ETSI Technical Committee (TC) Intelligent Transport Systems (ITS) recently published a specification on GeoNetworking media-dependent functionalities for LTE-V2X, which extends and deviates from the functionality defined by 3GPP by defining an additional value for V field (i.e., 0b0100) and prescribing the use of values 0b0011 and 0b0100 to distinguish between groupcast identifiers and unicast identifiers carried in a 24 bit DST field (see ETSI TS 102 636-4-3 V1.1.1 (2020-08), clause 6.1). Presently, IEEE 1609 WG is considering incorporating similar extensions and deviations into an updated specification of IEEE Std 1609.3. One option for doing so would be to ensure that any extensions and deviations defined by the IEEE 1609 WG are harmonized with the extensions and deviations already defined by ETSI TC ITS (i.e., define use of the same V field values for the same purpose). While this is the desired solution of the IEEE 1609 WG, the draft update of IEEE 1609.3 is still proceeding through balloting and comment resolution, thus the content is not yet final. The IEEE 1609.3 draft also includes a note that setting the V field to 0b0100 is currently prohibited in 3GPP specifications.

The IEEE 1609 WG requests that 3GPP take the above information into consideration and update the relevant 3GPP specifications. In particular, it is requested that the V field value 0b0100 be

assigned to indicate a 24-bit unicast identifier and that it be specified, referenced, or noted in 3GPP TS 36.321. Please respond with initial feedback if this is feasible and notify the IEEE 1609 WG regarding progress on subsequent updates. For your information IEEE 1609 WG next meeting dates are as follows:

DATE	MEETINGS, VENUE, HOST
Nov 3-4	<b>IEEE 1609 WG</b> , teleconference noon to 5 pm Eastern both days
Feb 23-24	<b>IEEE 1609 WG</b> , teleconference noon to 5 pm Eastern both days

Thank you for your kind consideration and we welcome any comments or questions.

Best Regards,

Justin McNew

Chair, IEEE VT/ITS 1609 Working Group ([justinm@jmcrota.com](mailto:justinm@jmcrota.com))

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