

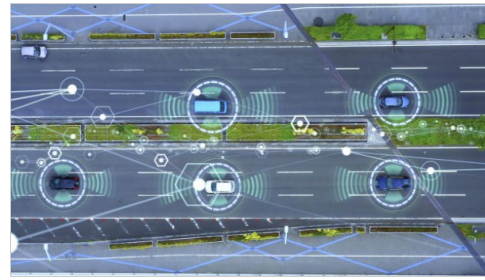
5GAA showcases latest cellular vehicle-to-everything technologies in Berlin

31-Oct-2024 08:59 GMT

IHS Markit
S&P Global
Supply Chain and Technology, Automotive

The 5G Automotive Association demonstrated new 5G-V2X applications for enhanced road safety, featuring advancements from Audi and BMW

The 5G Automotive Association (5GAA) showcased the latest developments in cellular vehicle-to-everything (C-V2X) technologies in Berlin last week, the association said in a press release on Oct. 28. The demonstrations highlighted the capabilities of 5G-vehicle-to-everything (5G-V2X) in facilitating new applications across a diverse set of stakeholders including automakers, service providers and mobile network operators.



Source: Getty Images

A notable achievement was the integration of 5G-V2X Direct technology in vehicles from Audi and BMW, achieved with support from 5GAA members Autotalks, Bosch, Commsignia and Fraunhofer Fokus. This demonstration showcased how the technology can alert drivers about pedestrians and cyclists even before they can see them, leveraging sensors and a camera feed from other vehicles. It showed the high-bandwidth and low-latency performance of 5G-V2X Direct using European Telecommunication Standard Institute (ETSI) Release 2.

Further demonstrations involved companies such as Bosch, Commsignia, Deutsche Telekom, Ericsson, Keysight Technologies, LG, Mercedes-Benz and Vodafone, along with the Coalition for Cyclist Safety. These showcased interoperable applications designed to improve safety for vulnerable road users and emergency services through the deployment of safety awareness alerts via both 4G and 5G networks. These applications were characterized by low latency, achieved through multi-access-edge computing, and precise location services confirmed by Anritsu's performance metrics.

5GAA Chairman Christoph Voigt expressed optimism about the technology's future, highlighting Europe's readiness to adopt the next generation of 5G-V2X technology, including direct communications, given the millions of vehicles already connected through mobile networks. Further demonstrations by Autotalks and Bosch, alongside Commsignia, emphasized the collective perception benefits for vulnerable road users. Additionally, companies including Ettifos, Keysight Technologies, Rohde & Schwarz, and SEA Datentechnik presented interoperability and conformity solutions for 5G-V2X Direct, alongside radio performance verification.

The event also included a demonstration by Audi, in collaboration with Commsignia and Autotalks, of a cooperative parking use case based on 5G-V2X Direct technology. These advancements align with 5GAA's Visionary 2030 Roadmap, forecasting the continuous rollout of 5G in car models and the mass deployment of 5G-V2X Direct in commercial vehicles by 2026. This underscores the ongoing commitment of European automakers to the advancement of 5G-V2X technology, echoing the sentiments of 5GAA's Open Statement in 2023.

CONTACTS

The Americas

+1 877 863 1306

Europe, Middle East & Africa

+44 20 7176 1234

Asia-Pacific

+852 2533 3565

www.spglobal.com/mobility

Copyright © 2024 S&P Global Inc. All rights reserved.

These materials, including any software, data, processing technology, index data, ratings, credit-related analysis, research, model, software or other application or output described herein, or any part thereof (collectively the “Property”) constitute the proprietary and confidential information of S&P Global Inc its affiliates (each and together “S&P Global”) and/or its third party provider licensors. S&P Global on behalf of itself and its third-party licensors reserves all rights in and to the Property. These materials have been prepared solely for information purposes based upon information generally available to the public and from sources believed to be reliable.

Any copying, reproduction, reverse-engineering, modification, distribution, transmission or disclosure of the Property, in any form or by any means, is strictly prohibited without the prior written consent of S&P Global. The Property shall not be used for any unauthorized or unlawful purposes. S&P Global’s opinions, statements, estimates, projections, quotes and credit-related and other analyses are statements of opinion as of the date they are expressed and not statements of fact or recommendations to purchase, hold, or sell any securities or to make any investment decisions, and do not address the suitability of any security, and there is no obligation on S&P Global to update the foregoing or any other element of the Property. S&P Global may provide index data. Direct investment in an index is not possible. Exposure to an asset class represented by an index is available through investable instruments based on that index. The Property and its composition and content are subject to change without notice.

THE PROPERTY IS PROVIDED ON AN “AS IS” BASIS. NEITHER S&P GLOBAL NOR ANY THIRD PARTY PROVIDERS (TOGETHER, “S&P GLOBAL PARTIES”) MAKE ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, FREEDOM FROM BUGS, SOFTWARE ERRORS OR DEFECTS, THAT THE PROPERTY’S FUNCTIONING WILL BE UNINTERRUPTED OR THAT THE PROPERTY WILL OPERATE IN ANY SOFTWARE OR HARDWARE CONFIGURATION, NOR ANY WARRANTIES, EXPRESS OR IMPLIED, AS TO ITS ACCURACY, AVAILABILITY, COMPLETENESS OR TIMELINESS, OR TO THE RESULTS TO BE OBTAINED FROM THE USE OF THE PROPERTY. S&P GLOBAL PARTIES SHALL NOT IN ANY WAY BE LIABLE TO ANY RECIPIENT FOR ANY INACCURACIES, ERRORS OR OMISSIONS REGARDLESS OF THE CAUSE. Without limiting the foregoing, S&P Global Parties shall have no liability whatsoever to any recipient, whether in contract, in tort (including negligence), under warranty, under statute or otherwise, in respect of any loss or damage suffered by any recipient as a result of or in connection with the Property, or any course of action determined, by it or any third party, whether or not based on or relating to the Property. In no event shall S&P Global be liable to any party for any direct, indirect, incidental, exemplary, compensatory, punitive, special or consequential damages, costs, expenses, legal fees or losses (including without limitation lost income or lost profits and opportunity costs or losses caused by negligence) in connection with any use of the Property even if advised of the possibility of such damages. The Property should not be relied on and is not a substitute for the skill, judgment and experience of the user, its management, employees, advisors and/or clients when making investment and other business decisions.

The S&P Global logo is a registered trademark of S&P Global, and the trademarks of S&P Global used within this document or materials are protected by international laws. Any other names may be trademarks of their respective owners.

The inclusion of a link to an external website by S&P Global should not be understood to be an endorsement of that website or the website’s owners (or their products/services). S&P Global is not responsible for either the content or output of external websites. S&P Global keeps certain activities of its divisions separate from each other in order to preserve the independence and objectivity of their respective activities. As a result, certain divisions of S&P Global may have information that is not available to other S&P Global divisions. S&P Global has established policies and procedures to maintain the confidentiality of certain nonpublic information received in connection with each analytical process. S&P Global may receive compensation for its ratings and certain analyses, normally from issuers or underwriters of securities or from obligors. S&P Global reserves the right to disseminate its opinions and analyses. S&P Global Ratings’ public ratings and analyses are made available on its sites, www.spglobal.com/ratings (free of charge) and www.capitaliq.com (subscription), and may be distributed through other means, including via S&P Global publications and third party redistributors.