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Three new *iG*R white papers discuss connected vehicles, autonomous driving and 5G

Supported by Intel, the white papers discuss the technology ecosystem that supports connected car functionality

AUSTIN, Texas, February 1st, 2018 – Connected vehicles (CV) and autonomous driving (AD) converge around safety, as CV began as primarily a safety-oriented vision designed to make vehicles, pedestrians, and the road safer through the use of warnings to the driver based on certain triggers. However, CV has begun to be viewed as a possible platform for enabling new services and applications well beyond the issue of safety.

Both 3GPP Release 14 (Rel-14) and Release 15 (Rel-15), the first phase of the 5G standard, incorporate cellular vehicle-to-everything (C-V2X), which is one way to deliver CV functionality.

"Mobile operators are rapidly evolving their 4G LTE networks into 5G, while also transforming the cellular network from a fixed function, single purpose network to a scalable, programmable, open, agile and flexible network," said Iain Gillott, president and founder of *iG*R, a market research consultancy focused on the wireless and mobile industry. "This new network will be able to support connected vehicles and autonomous driving, which were once just pipe dreams."

*iG*R has recently released the following three white papers that discuss connected vehicles, autonomous driving, and how a 5G ecosystem will support them.

The Connected Car Landscape

Discusses V2X, autonomous driving, the communication technologies that enable V2X, the benefits of V2X and autonomous driving, as well as the regulatory landscape around V2X.

5G and Connected Car: 5G Network Demands and Requirements

Provides an overview of the CV standard built into the 3GPP standards, how that standard works, how it evolves to 5G, and the types of functionalities it enables. It also discusses how 5G can enhance both connected vehicle technology and autonomous driving, and how Multi-access edge computing (MEC) can also be used to further bind the vehicle, services and network together

5G and Connected Car: Intel's End-to-End Role in Enabling the Ecosystem

Discusses connected vehicles and autonomous driving and some of the technologies which underpin them. Additionally, this paper highlights Intel's role in the automotive space and their solutions that support CV and AD.

The following key questions are addressed in the new white papers:

- What is V2X and what are the two ways to implement it?
- What is the Cooperative Intelligent Transport System?
- What is C-V2X and in what bands does it operate?
- What are the different levels of autonomous driving?
- What defines a highly automated vehicle (HAV)?
- What tests and trials for connected vehicle (CV) and autonomous driving (AD) have been deployed?
- What are the potential benefits of CV and AD?
- What policies and regulations are in place by various worldwide governments?
- How do various 3GPP releases address C-V2X and AD?
- How will Multi-access Edge Computing (MEC) support CV deployments?
- What functionality for Roadside Units (RSU) and Onboard Units (OBU) is included in the C-V2X standard?
- How do Intel solutions support CV and AD?

The new white papers can be downloaded at no charge directly from *iG*R's website using the above links. Alternatively, contact Iain Gillott at (512) 263-5682 or email for additional details.

About *iG*R

*iG*R is a market strategy consultancy focused on the wireless and mobile communications industry. Founded by Iain Gillott, one of the wireless industry's leading analysts, in late 2000 as *iG*illottResearch, *iG*R is now in its eighteenth year of operation. *iG*R continuously researches emerging and existent technologies, technology industries, and consumer markets. We use our detailed research to offer a range of services to help companies improve their position in the marketplace, clearly define their future direction, and ultimately improve their bottom line.

*iG*R researches a range of wireless and mobile products and technologies, including: smartphones; tablets; mobile wearable devices; connected cars; mobile applications; bandwidth demand and use; small cell and het-net architectures; mobile EPC and RAN virtualization; DAS; LTE; VoLTE; 5G NR; IMS; NFC; GSM/GPRS/UMTS/HSPA; CDMA 1x/EV-DO; iDEN; SIP; macro-, pico- and femtocells; mobile backhaul; WiFi and WiFi offload; and SIM and UICC.

A more complete profile of the company can be found at www.igr-inc.com.