
SK TELECOM AND ERICSSON CONDUCT FIRST MULTI-VEHICULAR 5G TRIALS WITH BMW

- Multi-site, multi-transmission point, multi-vehicular 5G trials for the first time
- Results show consistent 5G user experience for simultaneous execution of multiple use cases
- First 5G automotive trials after 5G Automotive Alliance announcement

Ericsson (NASDAQ: ERIC), SK Telecom and BMW have revealed the most advanced 5G outdoor mobility trial, including the first multi-vehicular 5G trials. They were conducted successfully on a 5G test network installed at the advanced BMW car test track in Yeongjong-do, South Korea. SK Telecom, together with Ericsson, deployed network slicing and 5G radio network infrastructure to cover a complete track in the BMW driving center. The trial with the connected test cars showed that 5G performance will support V2X (Vehicular Connectivity) services that require low latency and consistent high bi-directional throughput.

Alex Jinsung Choi, CTO and Head of Corporate R&D Center, SK Telecom, says: "5G will offer much more than just faster data speeds. It will serve as a true enabler for a whole new variety of powerful services that deliver unprecedented value to customers. Today's demonstration of 5G-based connected car technologies marks the very first step towards achieving fully autonomous driving in the upcoming era of 5G."

The test environment was realized by using an Ericsson 5G field trial network. It consists of multiple radio transmission points on 28GHz frequency band to cover the entire track and one user equipment installed in every car. The trials showed consistent Gbps-level throughput with a few millisecond latencies. Uninterrupted connectivity, using beam tracking and beam transfer across the different transmission points at speeds exceeding 100 kilometers per hour is also achieved. The performance shown enables multiple connected car use cases such as augmented and virtual reality, obstacle control and vehicle to vehicle communication, based on a system solution including radio and core network infrastructure from Ericsson.

Thomas Norén, Head of Product Area Network Products, Ericsson, says: "Ericsson is working with leading operators and ecosystem players to drive the realization of 5G – both with today's pre-standard field trials, and through standardization activities along with global standards bodies and industry groups. The trial takes a step closer to 5G technology and commercialization, especially for connected vehicle applications."



PRESS RELEASE

<November, 15, 2016>

The trial simultaneously implements new key 5G capabilities with multi-site, multi-transmission point, MU-MIMO, and with multiple devices operating in the millimeter wave frequency band. It demonstrates beam tracking and beam mobility between different 5G access points, at high mobility.

Ericsson is using its industry leading 5G trial system to support multiple trial engagements with different operators around the world, enabling our operator partners to test various applications with different trial set-up to explore new business opportunities.

NOTES TO EDITORS

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Ericsson is the driving force behind the Networked Society – a world leader in communications technology and services. Our long-term relationships with every major telecom operator in the world allow people, business and society to fulfill their potential and create a more sustainable future.

Our services, software and infrastructure – especially in mobility, broadband and the cloud – are enabling the telecom industry and other sectors to do better business, increase efficiency, improve the user experience and capture new opportunities.

With approximately 115,000 professionals and customers in 180 countries, we combine global scale with technology and services leadership. We support networks that connect more than 2.5 billion subscribers. Forty percent of the world's mobile traffic is carried over Ericsson networks. And our investments in research and development ensure that our solutions – and our customers – stay in front.

Founded in 1876, Ericsson has its headquarters in Stockholm, Sweden. Net sales in 2015 were SEK 246.9 billion (USD 29.4 billion). Ericsson is listed on NASDAQ OMX stock exchange in Stockholm and the NASDAQ in New York.

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<November, 15, 2016>

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