



## KDDI and Samsung Break Track Record in High-Speed 5G Mobility Test

*Unprecedented speed record of 205km/h achieved during 5G mobility test held at 'Everland SPEEDWAY' in Korea*

**Seoul, Korea** – September 07, 2017 – KDDI and Samsung Electronics today announced the completion of a comprehensive set of 5G tests which demonstrate the viability and performance of 5G millimeter wave mobility solutions at speeds over 190km per hour which is the fastest record in the world. The successful results highlight the potential and capability of 5G to support a wide variety of future service scenarios.

The demonstration, which took place at 'Everland SPEEDWAY' in Korea, involved a battery of individual tests to examine the performance of Samsung's end-to-end 5G mmWave technology. Specifically, as a vehicle accelerated from 0 to 205km per hour on the race track between multiple 5G base stations, the test measured and evaluated a variety of metrics, including handover interruption time, uplink and downlink throughput stability, and latency stability (or "jitter").

In addition, KDDI and Samsung also demonstrated a successful handover scenario, with Samsung's 5G device attaching to the 5G base station as it approached the service area, and successfully being handed over to the target cell at a speed of 192km per hour (GPS speed).

Woojune Kim, Senior Vice President and Head of Next Generation Strategy in Networks Business at Samsung Electronics, said, "It is becoming increasingly important that we accelerate our focus on 5G's ability to meet a growing number of performance metrics. Until now, peak bandwidth has been the common refrain, and certainly a big component of the future of 5G. However, the test we conducted with KDDI will help us build a more diverse portfolio of future 5G use cases."

"The trial successfully showcased stable performance under high-speed mobility conditions which will dramatically increase the service experience of users in vehicles," said Akira Matsunaga, Senior Director, Mobile Network Technical Development at KDDI. "We will continue our joint efforts with Samsung to test next generation technology to unprecedented levels and discover new service cases."

The test achievements build upon a string of mobility-related successes over the past several years. In February of this year, Samsung and KDDI [successfully demonstrated](#) 5G handover capability in an urban city environment at speeds of up to 60km/h on public roads. Both companies are in discussion with 5G trials for multiple 5G service cases.

One of the most exciting prospects of 5G technology is the potential for new and highly specialized service scenarios that go beyond traditional smart device connectivity. 5G's ability to deliver on this promise is directly tied to its ability to meet the unique performance needs of a wide number of increasingly-connected industries, from Smart City IoT to Connected Cars and more. Samsung also continues to actively explore the potential for 5G-driven services under common high-speed scenarios.

### **About KDDI**

KDDI, a Fortune Global 500 company and one of Asia's largest telecommunications providers, has a proven global track record of high quality service delivery. We provide a multitude of services, including

mobile phone services, fixed-line communication, and data centers, thus making us the optimum one-stop solution provider for everything telecommunications and IT environment related.

**About Samsung Electronics**

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI and LED solutions. For the latest news, please visit the Samsung Newsroom at [news.samsung.com](http://news.samsung.com).

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