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Samsung Delivers on Gigabit Wireless Promise of 5G

*Completes Successful 5G Mobile and Fixed Wireless Tests
at Verizon Headquarters*

*Samsung Continues 5G Development and Standards Advancement for Next
Generation Networking Technology*

Barcelona, Spain (February 22, 2016) – This week, Samsung Electronics concluded a series of successful mobile, fixed wireless and in-building penetration 5G wireless tests delivering multi-gigabit per second (Gbps) speeds at Verizon Headquarters, including live streaming of 360-degree virtual reality content using Samsung Gear VR.

Using Samsung's 5G Hybrid Adaptive Array antenna radio technology and Verizon's FiOS wired network, Samsung delivered 5G wireless speeds over mmWave band spectrum in several real-world use cases – including in-building and mobile environments. During the trials, Samsung also exhibited 4K UHD video content transmission over the air while in a moving vehicle using automatic beamforming multiple-input and multiple-output (MIMO) technology.

Samsung also demonstrated the power of a 5G network by successfully streaming live 360 degree virtual reality content in 4K UHD, consisting of 17 independent video feeds, to Samsung Galaxy phones with Samsung Gear VR.

Samsung's tests were conducted at Verizon's Basking Ridge, N.J. headquarters as part of the activities associated with the Verizon 5G Technology forum, a group dedicated to the acceleration of 5G requirements, standards and technical innovation. 5G technology is expected to drive the next wave of wireless broadband and the Internet of Things (IoT), connecting billions of devices and accelerating low latency gigabit speeds for richer content and experiences.

"Samsung is pleased to take a leadership role along with Verizon in advancing 5G standards and development," said Youngky Kim, President and Head of the Networks Business at Samsung Electronics. "Our successful trials in real world scenarios reflect our history of innovation in mobile devices and networks, the strength of our development teams, and our commitment to helping commercial network operators lay a 5G foundation to create the next generation of exciting technologies and services."

With its 5G Hybrid Adaptive Array antenna technology, Samsung's tests showcased solutions for delivering stronger, high-quality 5G wireless signals for low latency, high throughput transmission of various data, including the uninterrupted streaming of 4K UHD video content.

"Verizon is committed to driving and accelerating the rate of 5G innovation by working closely with pioneering partners like Samsung," said Roger Gurnani, Executive Vice President and Chief Information and Technology Architect. "The result of Samsung's

technology in our real-world 5G trial proves that we are poised to usher in a new generation of wireless innovation.”

These 5G technologies highlight the strength of Samsung Electronics that combines both infrastructure and device solutions for building future networks, something that few others in the industry can match. The R&D talents and knowledge of engineers in both the mobile communications and network business units combined to deliver this leading edge 5G demonstration. Samsung expects this to be the foundation for delivering successful end-to-end 5G solutions at an industry leading pace.

To read Verizon’s full announcement on the completion of the Verizon 5G Technology Forum’s first round of tests, visit [here](#).

About Samsung Electronics Co., Ltd.

Samsung Electronics Co., Ltd. inspires the world and shapes the future with transformative ideas and technologies that redefine the worlds of TVs, smartphones, wearable devices, tablets, cameras, digital appliances, printers, medical equipment, network systems, and semiconductor and LED solutions. We are also leading in the Internet of Things space with the open platform SmartThings, our broad range of smart devices, and through proactive cross-industry collaboration. We employ 319,000 people across 84 countries with annual sales of US \$196 billion. To discover more, and for the latest news, feature articles and press material, please visit the Samsung Newsroom at news.samsung.com.

About Verizon

Verizon Communications Inc. (NYSE, Nasdaq: [VZ](#)), headquartered in New York, employs a diverse workforce of 178,500 and generated more than \$127 billion in 2014 revenues. Verizon Wireless operates America's most reliable wireless network, with 109.5 million retail connections nationwide. Verizon also provides converged communications, information and entertainment services over America's most advanced fiber-optic network, and delivers integrated business solutions to customers worldwide. For more information, visit www.verizon.com/news/.

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