



Samsung Unveils the World's First 5G FWA Commercial Solutions at MWC 2018

- *Samsung to unveil world's first end-to-end 5G FWA commercial solutions and showcase a variety of 5G-powered home, city and transportation use cases*
- *World's first regulatory approval of 5G millimeter-wave equipment given by US Federal Communications Commission*

BARCELONA, Spain – February 26, 2018 - Samsung Electronics will spotlight its end-to-end 5G commercial solutions at MWC 2018, unveiling new possibilities for the future of mobile communications. The demonstrations, planned to take place during the event at the Samsung Networks booth, will leverage the 5G solutions to showcase unexplored service opportunities and business cases.

"At MWC 2018, Samsung plans to show how our homes, cars and cities can be transformed by building user-centric 5G networks" said Youngky Kim, President and Head of Networks Business at Samsung Electronics. "Since the beginning of our 5G research in 2012, Samsung stood firm among industry players to trust in the potentials of the millimeter wave spectrum. Our efforts towards advancing this technology will see the light this year, making 5G a reality and opening up new territories' possibilities for consumers, operators and enterprises."

Samsung has developed the world's first complete commercial 5G FWA solutions, which includes: commercial form-factor 5G home routers (CPEs) for both indoors and outdoors, 5G Radio Access Network (RAN) comprised of a radio access unit and virtualized RAN, a next-generation core, as well as AI-powered 3D radio frequency planning tools and services. Using in-house technology and assets, Samsung has managed to develop the first commercial ASIC-based 5G modems and mmWave RFICs, enabling the design of compact access units and CPEs.

These products have already been proven through months of field trials in multiple markets. On February 23rd, the US Federal Communications Commission (FCC) granted authorization of Samsung's 5G access units. These are the first 5G millimeter-wave products in the world to secure government regulatory approval—a milestone achieved through close collaboration with the FCC's Office of Engineering and Technology.

The solutions will be deployed in the first commercial 5G network to be launched in 2018 in the U.S. For more details, refer to [Verizon Selects Samsung for 5G Commercial Launch](#).

Samsung will also present its first 3GPP Release 15-compliant 5G NR products supporting spectrum bands both below and above 6GHz, to be made available in 2018.

5G-powered Smart Cities

The solutions will enable 5G connectivity for deployments covering a broad range of use cases, greatly enhancing an operator's ability to explore various business cases and scenarios. A demonstration of a 5G-powered smart city at Samsung's MWC booth will showcase the difference next-generation technology can bring to streets and transportation, so they are

much safer and more convenient. Other demonstrations that illustrate how 5G will work in homes, stadiums, cars and trains are also planned to be presented at the booth.

Other Samsung solutions to be presented will include new LTE radio units and massive MIMO solutions, cloud platform, user-centric network optimization tools as well as services tailored to operators and enterprises' specific needs.

For more information on this press release including photos, videos and related Samsung Newsroom articles, please visit <http://news.samsung.com>. Samsung Networks' booth at MWC is located at the Exhibit Hall 2 Stand 2M20 in Fira Gran Via, and will be open from February 26th to March 1st, 2018. To learn more about MWC 2018, please visit www.mobileworldcongress.com.

About Samsung Electronics

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