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# Ericsson and Deutsche Telekom hit 40Gbps wireless backhaul speeds

Ericsson says the trial proves microwave backhaul can be used in a 5G era to attain speeds of 40Gbps.



By [Corinne Reichert](#) | January 11, 2019 -- 23:41 GMT (23:41 GMT) | Topic: [Mobility](#)

Ericsson has announced attaining a data transmission rate of 40Gbps during a trial of millimetre-wave (mmWave) wireless backhaul in partnership with Deutsche Telekom.

The trial, which took place at the Deutsche Telekom Service Center in Athens, was used to demonstrate that "wireless backhaul connections provide an enhanced customer experience in the 5G era", Ericsson said.

The latency was under 100 microseconds, the networking giant said, which is critical for 5G networks. The trial involved a 4G LTE-LINK 6352 microwave solution

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"This offers an important extension of our portfolio of high-capacity, high-performance transport options for the 5G era."

According to Ericsson head of Product Area Networks Per Narvinger, the trial also shows that "higher-capacity microwave backhaul will be an important enabler of high-quality mobile broadband services when 5G becomes a commercial reality".

Deutsche Telekom is also [working with Telefonica Deutschland](#)

(<https://www.zdnet.com/article/deutsche-telekom-and-telefonica-deutschland-sign-network-deal/>) on interconnecting their mobile and fibre networks, with an expanded agreement announced in October that will see around 5,000 Telefonica Deutschland mobile base stations be connected using Deutsche Telekom's fibre-optic backhaul, which they said will enable 5G upgrades in future.

The two had first signed a mobile backhaul contract back in 2011, with Deutschland Telekom MD Dirk Wössner calling the expansion "an important step toward ensuring the future viability of Germany's mobile communications infrastructure".

"The resources that we save will be dedicated directly to our own network expansion," Wössner said.

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mobile network expansion, enabling it to "get a significant portion of our mobile base stations in shape for the future 5G standard".

"As a result, our customers will benefit directly from a more powerful mobile network and a better user experience," Haas said.

Deutsche Telekom has been upgrading its network ahead of 5G, in December 2017 signing a [five-year contract with Ericsson](https://www.zdnet.com/article/ericsson-to-build-deutsche-telekom-5g-ready-network/) (<https://www.zdnet.com/article/ericsson-to-build-deutsche-telekom-5g-ready-network/>) to lay the foundations across its mobile network as part of what it called an "important step towards 5G".

Under the partnership, Ericsson is supplying its multi-standard radio access network (RAN) using its Baseband 6630 product and radios for one of Deutsche Telekom's two market areas across Germany, providing radio system products for both macro and small cell sites along with Ericsson Network Manager.

Ericsson is also supplying hardware and software solutions and support.

"We listened to Deutsche Telekom and understood their urgency to have 5G-ready infrastructure in order to stay at the forefront of customer service in Germany. We can run multiple standards on the same baseband hardware, and a simple software download to the market Area Europe and Latin

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ence from our 5G activities around

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(<https://www.zdnet.com/article/deutsche-telekom-we-are-ready-for-5g/>), with its live 5G NR trial network in Berlin the first in Europe to be deployed across commercial sites.

Deutsche Telekom's Berlin network, launched in October 2017 of its [5G Haus](https://www.zdnet.com/article/deutsche-telekom-opens-5g-haus-to-partner-with-ai-experts-and-others/) (<https://www.zdnet.com/article/deutsche-telekom-opens-5g-haus-to-partner-with-ai-experts-and-others/>) development program, was constructed in partnership with Chinese networking giant Huawei.

Deutsche Telekom has also worked with Intel on 5G, making use of its x86 chipset and [5G Mobile Trial Platform](https://www.zdnet.com/article/intel-announces-5g-mobile-trial-platform/) (<https://www.zdnet.com/article/intel-announces-5g-mobile-trial-platform/>), and with SK Telecom on [federated network slicing](https://www.zdnet.com/article/sk-telecom-deutsche-telekom-demonstrates-5g-roaming-via-network-slicing/) (<https://www.zdnet.com/article/sk-telecom-deutsche-telekom-demonstrates-5g-roaming-via-network-slicing/>) technology and on applying the [South Korean telco's quantum-safe system](https://www.zdnet.com/article/sk-telecom-applies-quantum-key-to-deutsche-telekom-network/) (<https://www.zdnet.com/article/sk-telecom-applies-quantum-key-to-deutsche-telekom-network/>) to its trial network.

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The biggest 5G announcements out of CES 2019 included Samsung's prototype 5G smartphone, Intel's SoC, Verizon's 5G share with Disney, Sprint's 5G and value of 5G, and even Cisco's

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## [Sprint rounds out CES 2019 with 5G call \(/article/sprint-rounds-out-ces-2019-with-5g-call/\)](#)

Working with Nokia and Qualcomm, Sprint has made a 5G data call on its live commercial network in San Diego, including streaming YouTube videos, making Skype video calls, and sending and receiving messages.

## [Separating the hype from reality in initial 5G mobile networks and smartphones \(https://www.techrepublic.com/videos/separating-the-hype-from-reality-in-initial-5g-mobile-networks-and-smartphones/\)](https://www.techrepublic.com/videos/separating-the-hype-from-reality-in-initial-5g-mobile-networks-and-smartphones/) (TechRepublic)

James Sanders and Karen Roby discuss the immediate future of 5G mobile networks and smartphones, and how existing equipment cannot be updated to 5G via software updates.

## [CES 2019: Samsung's dive into 5G with fixed and mobile devices \(https://www.techrepublic.com/article/ces-2019-samsungs-dive-into-5g-with-fixed-and-mobile-devices/\)](https://www.techrepublic.com/article/ces-2019-samsungs-dive-into-5g-with-fixed-and-mobile-devices/) (TechRepublic)

Samsung is deploying 5G infrastructure with partners around the world; the company is also deploying 5G in devices. Senior VP Alok Shah provides more

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[ite workers' internet woes ks-5g-router/](#) (TechRepublic)

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