

Deutsche Telekom and Ericsson achieve fiber-like results with wireless backhaul

- Wireless backhaul connections provide an enhanced customer experience in the 5G era
- Partners demonstrate millimeter wave link with four times greater throughput compared to current market solutions in live trial
- Joint innovation project uses Ericsson's latest mobile transport technology

Ericsson (NASDAQ: ERIC) and Deutsche Telekom are the first to successfully demonstrate a millimeter wave link with a data transmission rate of 40Gbps in a joint innovation project at the Deutsche Telekom Service Center in Athens.

An important milestone in the evolution from today's 10Gbps reality toward the 100Gbps future, the partners achieved four times greater data throughput compared to current commercial millimeter wave solutions to prove the commercial viability of future wireless backhaul technology.

The test also focused on the stringent latency requirements in 5G network architecture to support low latency or ultra-low latency use cases. The round-trip latency performance of the link tested was less than 100 microseconds, confirming the positive contribution of wireless backhaul technologies to satisfy network-specific latency targets.

Alex Jinsung Choi, SVP Strategy & Technology Innovation, Deutsche Telekom, says: "A high-performance transport connection will be key to support high data throughput and enhanced customer experience in next-generation networks. While fiber is an important part of our portfolio, it is not the only option for backhaul. Together with our partners, we have demonstrated fiber-like performance is also possible with wireless backhauling/X-Haul solutions. This offers an important extension of our portfolio of high-capacity, high-performance transport options for the 5G era."

Per Narvinger, Head of Product Area Networks, Ericsson, says: "Microwave continues to be a key technology for mobile transport by supporting the capacity and latency requirements of 4G and future 5G networks. Our joint innovation project shows that higher capacity microwave backhaul will be an important enabler of high-quality mobile broadband services when 5G becomes a commercial reality."

The live trial was completed at the Deutsche Telekom Service Center in Athens over a hop distance of 1.4 kilometers in the millimeter wave (E-band) spectrum. Technical setup included the

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use of [Ericsson's latest mobile transport technology](#) including Ericsson's MINI-LINK 6352 microwave solution and Router 6000.

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