



Telia Carrier and Infinera Demonstrate Industry-first Autonomous Intelligent Transponder in Live Network Field Trial

Sunnyvale, Calif. and Stockholm – March 4, 2019, 8:00 a.m. ET – Infinera and Telia Carrier announced today the successful completion of an industry-first production network field trial demonstrating autonomous intelligent transponder (AIT) technology.

The live field trial, performed in the framework of Celtic-Plus project SENDATE, demonstrated the ability of fiber optic transmission systems to autonomously adapt to changing network conditions in real time to support optimal service quality and performance while simplifying operations.

“As mission-critical Internet of Things applications drive increased demand for low-latency, high-quality network connectivity – at all times – the underlying optical infrastructure will require a new level of responsiveness and adaptability,” said Mattias Fridström, Chief Evangelist, Telia Carrier. “We continue to team with industry-leading innovators like Infinera to push the boundaries of optical layer automation to help us deliver a best-in-class customer experience under any network conditions.”

The proof of concept field trial was performed using AIT prototype technology developed by Infinera as part of its ongoing research and development initiatives. The AIT trial was conducted on a live 1,500-kilometer fiber route in Telia Carrier’s backbone network connecting Munich, Zurich, Strasbourg and Frankfurt. The trial featured multiple use cases that tested AIT capabilities under varied channel conditions and quality impairments, including the impact of neighbor channels, aging components and the adding and dropping of channels.

In all cases, the AIT autonomously adapted transmission parameters such as modulation schemes, minimizing network cost and maximizing performance, including total fiber capacity throughput and spectral efficiency.

“We are pleased to extend our long-standing collaboration with Telia Carrier, a company distinguished by their unwavering commitment to redefining customer value through cutting-edge technology innovation,” said Parthi Kandappan, Chief Technical Officer at Infinera. “This field trial reinforces the importance of advancing the agility of high-capacity infrastructure through innovation in cognitive networking, one of the pillars of our vision of the Infinite Network.”

At the Optical Fiber Conference and Exhibition ([OFC](#)) in San Diego, California this week, Infinera will showcase its ongoing technology collaboration with Telia Carrier, including results from recent field trials featuring AIT technology, 600 gigabits per second transmission and real-time optical performance awareness based on the Infinera Aware solution.

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About Telia Carrier

Telia Carrier owns and operates one of the world's most extensive fiber backbones. Our mission is to provide exceptional network infrastructure and services – empowering individuals, businesses and societies to execute their most critical activities. By working close to our customers, we make big ideas happen at the speed of fiber. Discover more at teliacarrier.com.

About Infinera

Infinera (NASDAQ: INFN) is a global supplier of innovative networking solutions that enable carriers, cloud operators, governments and enterprises to scale network bandwidth, accelerate service innovation and automate network operations. The Infinera end-to-end packet-optical portfolio delivers industry-leading economics and performance in long-haul, subsea, data center interconnect and metro transport applications. To learn more about Infinera visit www.infinera.com, follow us on Twitter @Infinera and read our latest blog posts at www.infinera.com/blog.

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This press release contains forward-looking statements including, but not limited to the potential technical, operational and financial benefits Infinera products and autonomous intelligent transponder technology may provide. These statements are not guarantees of results and should not be considered as an indication of future activity or future performance. Actual results may vary materially from these expectations as a result of various risks and uncertainties. Information about these risks and uncertainties, and other risks and uncertainties that affect Infinera's business, is contained in the risk factors section and other sections of Infinera's Quarterly Report on Form 10-Q for the quarter ended September 29, 2018 as filed with the SEC on November 8, 2018, as well subsequent reports filed with or furnished to the SEC. These reports are available on Infinera's website at www.infinera.com and the SEC's website at www.sec.gov. Infinera assumes no obligation to, and does not currently intend to, update any such forward-looking statements.