

Telia Carrier and Infinera Demonstrate First 600G Transmission in a Production Network

Sunnyvale, Calif. and Stockholm – October 29, 2018, 8:00 a.m. CET – Infinera, the leading provider of [Intelligent Transport Networks](#), and [Telia Carrier](#), the world's #1 Internet backbone, announced the first real-time transmission of 600 gigabits per second (600G) wavelengths in a live production network.

This industry-first milestone was achieved with the latest generation of the Infinera Infinite Capacity Engine, ICE5, demonstrating Infinera's continued rapid cadence in the development of vertically integrated optical engines with industry-leading optical performance and economics. The ICE5 600G technology, including 64 QAM (quadrature amplitude modulation) and 69 gigabaud operation, also sets the foundation for the next generation, ICE6, which is on track to deliver 800G.

The trial achieved 600G single-wavelength transmission from Palo Alto to San Francisco across Telia Carrier's production network, which is built on Infinera's FlexILS platform, the industry's most widely deployed flexible grid open line system. The trial illustrates that Telia Carrier's deployed FlexILS network is ready for next-generation transponders operating at 600G and beyond, enabling Telia to continue scaling capacity to meet customer demand for the foreseeable future.

"We are pleased to partner with Infinera to yet again demonstrate industry-leading innovation," said Mattias Fridström, Chief Evangelist at Telia Carrier. "Working together, our companies have a strong history of optical performance leadership, stretching back to the world's first terabit super-channel trial almost seven years ago. Infinera's 600G technology can be readily deployed across our existing FlexILS networks, helping us to increase fiber capacity while satisfying our customers' growing capacity requirements."

"Infinera continues to deliver optical engine innovation on a rapid cadence," said Parthi Kandappan, Chief Technical Officer at Infinera. "Our ICE4 optical engines are delivering industry-leading performance in deployed networks from metro data center interconnect to subsea, and this 600G trial showcases the next step function in ICE performance, leading toward 800G wavelengths and beyond in the future."

Infinera plans to deliver commercial products capable of 600G per wavelength in early 2019.

Contacts:

<p><i>Infinera Media:</i> Anna Vue Tel. +1 (916) 595-8157 avue@infinera.com</p> <p><i>Telia Carrier:</i> Rickard Bäcklin Tel. +46 72 2368327 rickard.backlin@teliacompany.com</p>	<p><i>Infinera Investors:</i> Jeff Hustis Tel: + 1 (408) 213-7150 jhustis@infinera.com</p>
--	--

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) provides Intelligent Transport Networks, enabling carriers, cloud operators, governments and enterprises to scale network bandwidth, accelerate service innovation and automate optical network operations. Infinera's end-to-end packet-optical portfolio is designed for long-haul, subsea, data center interconnect and metro applications. To learn more about Infinera visit www.infinera.com, follow us on Twitter @Infinera and read our latest blog posts at blog.infinera.com.

Infinera and the Infinera logo are registered trademarks of Infinera Corporation.

This press release contains forward-looking statements including, but not limited to the development and technical capabilities of Infinera's ICE5 and ICE6 platforms and the potential economic, technical and operational benefits of deploying these platforms in the future. 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 Annual Report on Form 10-K for the quarter and year ended June 30, 2018 as filed with the SEC on August 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.