



## Infinera Unveils Xceed Software Suite Delivering Multi-layer SDN Automation and Revenue-Ready Applications

**Sunnyvale, Calif. – Aug. 31, 2016** – Infinera, a provider of [Intelligent Transport Networks](#), unveiled today the Xceed Software Suite (Xceed), a portfolio of integrated, open and modular software components for software defined networking (SDN) automation of Infinera programmable multi-layer transport networks. The new software suite, including the Xceed Multi-layer SDN Platform and Xceed Applications, enables service providers to create new revenue streams and reduce operational costs by driving higher network efficiency.

Service providers have begun using SDN within their data centers to automate networking of virtualized devices and functions, but have not yet been able to extend the same SDN automation to the metro and core networks that are foundational to their business. Meanwhile, traffic patterns in metro and core networks have become increasingly variable and unpredictable. Service providers are challenged to activate bandwidth, reconfigure network resources and adapt to application demand quickly using legacy systems and manual processes.

The Xceed Software Suite is designed to meet these challenges by delivering an open purpose-built multi-layer SDN platform and revenue-ready applications, leveraging the powerful scalability, flexibility and programmability of Infinera transport networks.

**Purpose-built Platform:** The Xceed Multi-layer SDN Platform delivers scalable SDN control across Infinera's end-to-end Intelligent Transport Network portfolio spanning long-haul, metro and data center interconnect applications. The Xceed platform, built on the OpenDaylight open source SDN controller, incorporates Infinera-developed advanced microservices, such as the Xceed Multi-layer Path Computation Element (PCE) and a rich network abstraction layer incorporating Infinera's proven Open Transport Switch (OTS) software. With a diverse range of open application programming interfaces (APIs), standards-based information models and open source components, the Xceed Multi-layer SDN Platform sets a new benchmark of openness to enable rapid application development and deployment.

**Revenue-ready Applications:** Xceed Applications unleash the scalability, flexibility and programmability of Infinera packet-optical transport networks to improve service delivery and facilitate service providers' goals of protecting and growing revenue while increasing network efficiency. Xceed Applications available in the initial release include:

- **Xceed Dynamic Bandwidth** provides on-demand provisioning of Optical Transport Network (OTN), including ODUFlex and Metro Ethernet Forum (MEF) compliant Ethernet services. Xceed Dynamic Bandwidth enables programmable on-demand capacity activation creating an elastic environment that is designed to enable faster service provisioning, more efficient use of resources across packet, digital and optical layers, and improved network utilization.
- **Xceed Instant Virtual Networks** facilitates network virtualization to enable service providers to define virtual transport network topologies on a shared physical network infrastructure. With Layer 1 (OTN) Instant Virtual Network (IVN), multiple virtual transport networks can be established, each operating as a standalone transport network with integrated OTN switching, optical routing and protection capabilities tailored to the end-user's applications.



The Xceed Software Suite enables Infinera and its partners and customers to play a leading role in building fully open, dynamic multi-layer SDN-controlled networks.

“As a leading national provider of high-bandwidth wavelength services, Windstream recognizes that our enterprise and wholesale customers demand streamlined service provisioning and more flexible, on-demand connectivity,” said Art Nichols, Windstream’s Vice President of Network Architecture and Technology. “As a strategic vendor, Infinera partners with us to develop pragmatic solutions to meet our customers’ needs. We are actively testing and plan to deploy the Xceed Multi-layer SDN Platform with Dynamic Bandwidth to further our efforts in providing an exceptional customer experience.”

“GÉANT is working in close partnership with Infinera to deploy SDN, most recently validating Open Transport Switch and the Packet Switching Module to pilot multi-layer programmability between our optical and packet networks,” said Mark Johnston, Chief Operations Officer at GÉANT. “By closely collaborating with the SDN development team, led by Afrodite Sevasti, we plan to leverage the power of the Xceed Software Suite to implement multi-layer control and to facilitate multi-domain interoperation to increase network efficiency and deliver on-demand services. This will also ultimately increase the capability and value of the GÉANT network.”

“The introduction of the Xceed Software Suite marks an important milestone in Infinera’s ability to help our customers realize the promise of an infinite pool of intelligent bandwidth,” said David Welch, President and Co-Founder, Infinera. “Now with Xceed, our customers have the automation, multi-layer intelligence and programmability to rapidly deliver new, differentiated SDN applications with an open approach. Service providers can now activate and control pre-deployed terabit scale capacity quickly and easily with minimal operational expense.”

Infinera’s Xceed Software Suite is available now for selected customer trials and deployments, and planned for general availability in the fourth quarter of 2016.

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**About Infinera**

Infinera (NASDAQ: INFN) provides Intelligent Transport Networks, enabling carriers, cloud operators, governments and enterprises to scale network bandwidth, accelerate service innovation and simplify optical network operations. Infinera’s end-to-end packet-optical portfolio is designed for long-haul, subsea, data center interconnect and metro applications. Infinera’s unique large scale photonic integrated circuits enable innovative optical networking solutions for the most demanding networks. To learn more about Infinera visit [www.infinera.com](http://www.infinera.com), follow us on Twitter @Infinera and read our latest blog posts at [blog.infinera.com](http://blog.infinera.com).

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This press release contains forward-looking statements including, but not limited to the technical and economic benefits of deploying Infinera products now and 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 Quarterly Report on Form 10-Q for the quarter ended June 25, 2016 as filed with the SEC on August 2, 2016, as well subsequent reports filed with or furnished to the SEC. These reports are available on



Infinera's website at [www.infinera.com](http://www.infinera.com) and the SEC's website at [www.sec.gov](http://www.sec.gov). Infinera assumes no obligation to, and does not currently intend to, update any such forward-looking statements.

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