



## Infinera Launches The Infinite Network, a Disruptive Architecture to Simplify Network Scalability and Automation

**Sunnyvale, Calif. – February 19, 2019, 8:00 a.m. ET** – Infinera announced today [The Infinite Network](#), a disruptive, end-to-end network architecture paving the way to instantly scalable, self-optimizing networks that dynamically adapt to the demands of users and applications. The architecture expands the power of Infinera’s unique vertically integrated [Infinite Capacity Engine](#) (ICE) and Instant Bandwidth operational model by introducing the newest generation of ICE technology, extending ICE and Instant Bandwidth to the network edge and integrating them into a comprehensive new framework of open, disaggregated, packet-optimized solutions with network automation and machine learning.

The Infinite Network is designed to enable operators to scale their networks efficiently to support relentless bandwidth growth and new bandwidth-intensive and latency-sensitive applications including 5G services, Distributed Access Architectures (DAA), data center interconnection and cloud-based business services.

The Infinite Network consists of The Infinite Core, The Infinite Edge and Cognitive Networking, providing end-to-end intelligence and automation from edge to core.

- **The Infinite Core** addresses operator challenges in core networks, including relentless bandwidth growth and increasingly dynamic, unpredictable traffic flows. The Infinite Core delivers leading optical performance from metro to subsea, including 600 gigabits per second (Gb/s) per wavelength transmission, record-breaking capacity-reach performance and Infinera’s uniquely flexible, scalable software defined capacity on demand with Instant Bandwidth. Building on these capabilities, Infinera announced today ICE6, the next step in vertically integrated optical engine technology, which is engineered to deliver up to 800 Gb/s per wavelength and an expanded toolkit of advanced coherent technologies designed to extend Infinera’s heritage of industry-leading optical performance in the core.
- **The Infinite Edge** addresses the disruptive shift in edge network architectures driven by new services and cloud-based applications moving closer to the network edge. The Infinite Edge is designed to deliver comprehensive solutions for fiber deep architectures, including 5G and DAA. Infinite Edge solutions span Layer 0 to Layer 3 (optical, Ethernet and IP/Multiprotocol Label Switching [MPLS]) with industry-leading technologies for operational efficiency and a disruptive disaggregated router solution that can accelerate innovation, automation and cost-efficiency.

To continue enhancing The Infinite Edge, Infinera announced today a vision for extending ICE optical innovation and Instant Bandwidth to the network edge. This vision encompasses a family of pluggable coherent optics, based on Infinera’s vertically integrated ICE technology, that can be deployed deep into edge networks, and virtualized lasers, a disruptive technology innovation that promises to dramatically reduce the cost and increase the flexibility of edge networks.

- **Cognitive Networking** addresses operators’ need to transform their operational models to increase efficiency and service agility. Today, Infinera provides operators with comprehensive foundational software solutions supporting multi-layer, multi-vendor



network automation and optimization across The Infinite Core and The Infinite Edge, powered by Infinera's Transcend software suite. Transcend applications today enable real-time application awareness, network performance monitoring, planning and multi-layer optimization.

Looking ahead, Infinera announced today a new Cognitive Networking vision that will integrate these real-time applications with real-time activation of Instant Bandwidth from edge to core, and add machine learning to continuously optimize application performance and network efficiency. With this comprehensive approach, Infinera will help operators realize their vision of an instantly scalable, self-optimizing network that dynamically adapts to the demands of users and applications.

"The Infinite Network builds on the innovations and advantages of Infinera's vertically integrated technology, delivering a powerful solution for our customers to meet the transformational demands of emerging next-generation services such as 5G, DAA and cloud-based services," said Parthiban Kandappan, Infinera Chief Technical Officer.

To learn more, guests are encouraged to join the IHS Markit, Infinera and AT&T webinar titled [At the edge of next-gen revenue creation: 5G, MEC and IoT virtualized service delivery](#). Demonstrations of The Infinite Network will take place at [Mobile World Congress](#) in Barcelona, Spain from February 25-28 and at the [Optical Networking and Communication Conference & Exhibition](#) (OFC) in San Diego, California from March 5-7.

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**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](http://www.infinera.com), follow us on Twitter @Infinera and read our latest blog posts at [www.infinera.com/blog](http://www.infinera.com/blog).

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This press release contains forward-looking statements including, but not limited to the potential technical, financial and operational benefits that Infinera's suite of products may provide to a network operator. 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](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.