MBC Deploys Packet Services on Infinera DTN-X for Research & Development, Education and Big Data Projects Network

Sunnyvale, Calif. – *Oct. 13, 2015 –* Infinera, provider of [Intelligent Transport Networks](#), and Mid-Atlantic Broadband Communities Corporation (MBC) announced that MBC has deployed the Infinera PXM packet switching module, which enables a highly-efficient packet-optical transport network architecture. The Infinera PXM is designed to enable network operators to benefit from a portfolio of advanced services-based Carrier Ethernet and MPLS technologies that are intended to result in decreased network costs and statistical multiplexing with packet aggregation and transport port consolidation.

Deployed on the Infinera DTN-X platform across MBC's terabit network, Infinera PXM allows MBC to interconnect 100 gigabit Ethernet (GbE) router ports at various university sites and allows access to the Internet2 network via Ashburn. The Infinera PXM module enables MBC to directly map packet services with carrier grade quality of service (QoS) from the edge of the network to its core transport network.

MBC is a provider of wholesale optical transport services, colocation and tower leasing to retail telecommunications service providers. MBC partnered with the [Mid-Atlantic Research Infrastructure Alliance](#) (MARIA) to increase capacity to the national [Internet2 research and education network](#) and between participating member institutions. MARIA is a non-profit corporation that brings together Virginia's major research universities to facilitate access to shared technology infrastructure for research, also known as cyber infrastructure.

"By adding Infinera PXM on our Intelligent Transport Network, we now have the benefit of packet-awareness which enables a significant reduction in expensive router ports required to offer a portfolio of high-capacity Ethernet services," said Tad Deriso, President & CEO of MBC. "Infinera's solutions have consistently enabled our network to respond to customers with speed, scale and reliability. As a result of partnering with Infinera, our network capacity to support large research and economic development projects in Virginia has grown ten-fold. With Infinera PXM, we continue to extend these benefits to all customers in the network."

"We are pleased to continue our successful partnership with MBC," said Ian MacDonald, vice president, metro technology, Infinera. "As services become more sophisticated and capacity requirements continue to grow, transport networks are becoming more packet-aware. The Infinera DTN-X platform supports services of any granularity from 100 Mbps to 100 Gbps resulting in highly efficient networks. We are committed to providing MBC with solutions that offer best-in-class scale, flexibility and programmability to simplify optical network operations and to accelerate service innovation."

The Infinera PXM offers integrated Ethernet and MPLS switching functionality over WDM super-channels to deliver dynamic, flexible packet transport services. It can process Ethernet and MPLS packets with QoS up to 100 GbE speeds, map them based on configuration rules into multiple flexibly-sized ODUflex circuits, and deliver them through the transport network to their end destination. The converged Layer 2 (L2), Layer 1 (L1), Layer 0 (L0) functionality in the overall system enables a more flexible and bandwidth-efficient router interconnect. This helps service providers reduce capital expenses and increase power and space efficiency by reducing the need for transit router ports and chassis. Flexible mapping of packet flows from the router into ODUflex circuits enables service providers to support standards-based L2 traffic

management capabilities while offering Metro Ethernet Forum (MEF) compliant Carrier Ethernet 2.0 services, like E-LINE, among others, improving time to revenue.

For more information about Infinera PXM, click here.

For more information about MBC's network, visit www.mbc-va.com.

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About Mid-Atlantic Broadband Communities Corporation
Mid-Atlantic Broadband Communities Corporation (MBC) is a non-profit 501(c)(4) organization, committed to bridging the digital divide, promoting economic development, reducing the burdens of government and reinvesting in communities. MBC accomplishes this by operating an advanced open access fiber optic network, providing wholesale telecommunications transport services, colocation and tower leasing. Since its inception in 2004 and by offering a state-of-the-art fiber optic network, MBC has supported the recruitment of major investments to southern Virginia including data centers, call center/operations centers, advanced manufacturing, research and development, and bio-tech industries. For more information, visit www.mbc-va.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 simplify optical network operations. Infinera's end-to-end packet-optical portfolio is designed for long-haul, subsea, datacenter 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, follow us on Twitter @Infinera and read our latest blog posts at blog.infinera.com.

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