



NEWS RELEASE

## Verizon Begins 40G Fiber Broadband Trial of ADTRAN's SDN-Optimized NG-PON2 Solution

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Highly innovative open, programmable and scalable converged services architecture aligns with key operator imperatives

HUNTSVILLE, Ala.--(BUSINESS WIRE)--Jul. 27, 2016-- **ADTRAN®**, Inc., (NASDAQ:ADTN), a leading provider of next-generation open networking solutions, today announced that Verizon has selected its SDN-optimized NG-PON2 solution for upcoming lab trials. The goal is to create a cost-effective Fiber-to-the-Home solution that meets business and residential needs today and is capable of scaling to 40G and beyond to meet market need.

Initial testing will be conducted at Verizon's Innovation Lab in Waltham, Massachusetts, and will focus on several features of NG-PON2, including the implementation of tunable multiple wavelength 40 Gigabit per second capability to support a mix of services on a common converged platform. This capability enables carriers to efficiently address the increase in demand for critical service segments including residential Gigabit broadband, big data, IoT and premium cloud and enterprise services growth and expansion.

With Verizon taking the lead, and support from ADTRAN, the companies will collaborate on groundbreaking interoperability work that will contribute to Verizon's ONT Management and Control Interface (OMCI) that will allow NG-PON2 OLTs to interoperate with multiple vendor ONTs. The flexibility provided with this open, dis-aggregated architecture provides lower first cost and positions Verizon for fully programmable NG-PON2 solutions, while also fueling a collaborative, scalable framework that prioritizes service reach and efficiency.

According to **Verizon's press release issued on July 20, 2016**, the company plans to initially deploy a number of



business services in 2017, followed by residential services as the technology matures and the market demands. Verizon selected NG-PON2, in part, because of the associated deployment efficiencies, requiring only a minimal change in centralized electronics to implement. NG-PON2 technology is fully compatible with Verizon's current underlying fiber optic infrastructure.

ADTRAN's NG-PON2 broadband platform is of particular interest to service providers because of several inherent innovative benefits that significantly reduce the overall cost of operations for delivering converged 10G services. This software-defined access architecture features an innovative optics implementation that offers extreme scale, maximizing SDN/NFV network automation and supporting rapid service delivery capabilities while improving network integrity and quality of experience. Highly elastic NG-PON2 technology aligns well with ADTRAN's open and disaggregated software-defined access network architecture and will be leveraged by service providers, including market leaders like Verizon, as they move toward a more open, programmable and scalable service architecture. Finally, ADTRAN's NG-PON2 OLT system maximizes these benefits with non-blocking, multi-terabit capacity and open SDN programmability.

"NG-PON2, as evidenced by Verizon's commitment to it, can be a game changer as service providers look to advance their service capabilities over existing access infrastructures and underpin the open, programmable, scalable service architectures of the future," said Jay Wilson, ADTRAN's senior vice president, Technology and Strategy. "ADTRAN's NG-PON2 platform leverages innovative optic technologies to help overcome the most costly part of FTTH architecture so that the business case can broaden to include business and residential use cases."

## About ADTRAN

ADTRAN, Inc. is a leading global provider of networking and communications equipment. ADTRAN's products enable voice, data, video and Internet communications across a variety of network infrastructures. ADTRAN solutions are currently in use by service providers, private enterprises, government organizations, and millions of individual users worldwide. For more information, please visit [www.adtran.com](http://www.adtran.com).

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