ESnet6 Sets New Benchmark in Research Networks With Ciena's WaveLogic Optics

October 11, 2022

Long-standing collaboration between ESnet and Ciena helps enable 46.1 Tbps bandwidth and intelligent network services to accelerate scientific discoveries

BERKELEY, Calif. & HANOVER, Md.--(BUSINESS WIRE)--Oct. 11, 2022-- The U.S. Department of Energy's (DOE) Energy Sciences Network (ESnet) has deployed Ciena's (NYSE:CIEN) coherent optical technology across ESnet6 – the newest generation of the DOE's high-performance network dedicated to science.

Providing 46.1 Terabits per second (Tbps) of bandwidth and intelligent network services, ESnet6 will support multi-petabyte dataflows typical of science research today and will also scale to manage the emerging exabyte data era of the future. ESnet6 will enable scientists to significantly advance their ability to gain insight from massive datasets produced by experiments that use large scale instruments like genome sequencers, telescope observatories, X-ray light sources and particle accelerators, among many others.

ESnet6 utilizes Ciena's Waveserver 5 powered by WaveLogic 5 Extreme to support 100GbE and 400GbE interconnectivity. Ciena's optical technology provides reduced cost per bit per kilometer, simplified operations via a web-scale operational model, and smarter software and analytics derived from real-time network data that it reveals. These benefits are critical to ESnet6 as it fuels data for scientific discovery for tens of thousands of DOE-funded researchers at more than 50 U.S. laboratories and supercomputing facilities to research partners around the world.

"ESnet6 provides the foundation for the future of the DOE mission science as we enter an age where discoveries will rely on the integration of scientific experimental facilities, supercomputers and global science teams working together, regardless of location," stated Inder Monga, Executive Director at Esnet. "ESnet6 could not be built without critical industry pioneers like Ciena. Ciena's WaveLogic technology allows us to scale the capacity and capability of our network to support the next evolution of data-intensive science."

"ESnet6 sets a new benchmark in network programmability, intelligence and capacity. The innovation and technology implemented within this network is truly cutting-edge and will support seamless access to data and compute resources, as well as fuel critical scientific research on things like high energy physics, climate change, genomics and astronomy," said Steve Alexander, Chief Technology Officer at Ciena.

About ESnet

The Energy Sciences Network (ESnet) is a high-performance, unclassified network built to support scientific research. Funded by the U.S. Department of Energy's Office of Science (SC) and managed by Lawrence Berkeley National Laboratory, ESnet provides services to more than 50 DOE research sites, including the entire National Laboratory system, its supercomputing facilities, and its major scientific instruments. ESnet also connects to over 140 research and commercial networks, permitting DOE-funded scientists to productively collaborate with partners around the world. For more information please visit https://www.es.net/.

About Ciena

Ciena (NYSE: CIEN) is a networking systems, services and software company. We provide solutions that help our customers create the Adaptive Network ™in response to the constantly changing demands of their end-users. By delivering best-in-class networking technology through high-touch consultative relationships, we build the world's most agile networks with automation, openness and scale. For updates on Ciena, follow us on Twitter @Ciena, LinkedIn, the Ciena Insights blog, or visit www.ciena.com.

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Press: Jamie Moody
Ciena Corporation
+1 (410) 694-5761
pr@ciena.com

Investors: Gregg Lampf
Ciena Corporation
+1 (410) 694-5700
ir@ciena.com

Source: Ciena Corporation