Italian Research Network Deploys Infinera DTN-X XTC Series

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Future terabit super-channels made possible through 500 Gb/s photonic integrated circuits

Infinera, maker of InP photonic integrated circuits (PICs) and network equipment, has announced that GARR, the Italian Research & Education Network, has deployed the Infinera DTN-X XTC Series to deliver advanced services and increase network efficiency.

GARR designs and operates Italy's national high-speed telecommunication network for university and scientific research. The Infinera DTN-X XTC Series enables GARR to deliver 100Gb/s coherent transmission via 500Gb/s super-channels today and supports a forward-scale design to provide terabit super-channels in the future.

The high capacity super-channels are made possible through the use of 500 Gb/s photonic integrated circuits (PICs) developed and fabricated by Infinera the only supplier delivering 500Gb/s of transmission capacity from a single line card today.

The DTN-X XTC Series integrates dense wavelength division multiplexing (DWDM) super-channel transmission with optical transport network (OTN) and packet switching for sub-wavelength service management. With up to 12Tb/s of non-blocking OTN switching in a single bay upgradeable from 5Tb/s, the DTN XTC Series provides seamless expansion as traffic requirements grow in the future.

"The innovative FlexCoherent Processor and PIC technology behind Infinera's Intelligent Transport Network provide GARR the advanced capabilities needed to deliver critical services to the research and university community across Italy," said Massimo Carboni, GARR CTO.

"The flexibility, speed of service delivery and rich network management system provided by the Infinera Intelligent Transport Network and Instant Bandwidth enable us to scale network bandwidth and accelerate service innovation to support large research and education development projects."

"Research and education networks deliver massive amounts of mission-critical data and require transport solutions that are simple to operate and deliver advanced services quickly," said Nick Walden, senior VP, EMEA Infinera.

"We are pleased to see increased adoption of Infinera Intelligent Transport Networks and are committed to providing GARR with solutions that offer high levels of scalability, flexibility and programmability while simplifying network operations."

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