

Financial Services Industry Optical Network Use Cases

Data Center Interconnection

With continued centralization within data centers and new digital financial applications like artificial intelligence, machine learning, analytics, blockchain, and robotic process automation driving increased traffic to the data center, it's easy to forget the impact on inter-data-center traffic.

Today's solution architectures are becoming increasingly complex, with the flow of data between data centers often reaching 100 times the traffic from users to data centers. This complexity is compounded by the business-continuity and disaster-recovery traffic and data-management policies, which means a lot of data must be moved to long-term storage for regulatory purposes, as well as the added complications of introducing private-cloud and even some hybrid-cloud solutions.

Given these factors, inter-data-center traffic is increasing in size, is unpredictable regarding where the data flows to and from, can surge dramatically and unpredictably based on events outside the financial institution's control, and must still deliver exacting throughput and latency figures across a wide range of data protocols.

Ciena's packet-optical platforms provide solutions that meet exacting standards of data center interconnectivity for the financial

services industry. Our platforms include secure and highly available options that deliver scalable bandwidth from 10 Gb/s to 400 Gb/s connectivity on a metro, regional, national, or global basis. Ciena's platforms support multiple networking technologies prevalent in the financial services industry, including optical wavelength, Ethernet, and fiber channel. We offer a comprehensive array of high-availability options that can also be designed to encrypt all data traffic—regardless of protocol—without impacting application performance.

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