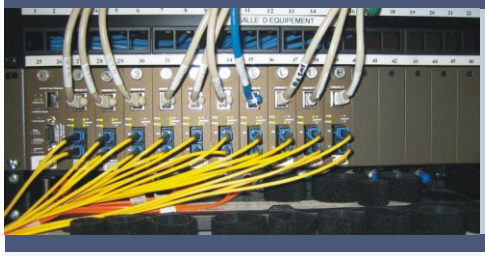
Case Study

Fiber



"Sourcing TRENDnet's highly reliable fiber converters resulted in an incredible 65% hardware equipment savings as compared to Cisco solutions and the adoption of TRENDnet Fiber Converters by over 75 school districts to create a high speed Gigabit fiber network in a remote rural region of Quebec, Canada."

Louis Belmont
Managing Director of INFO-LOGIC EBM INC.

Challenge
To build a high speed Gigabit network for an expansive remote rural region that encompassed 75 school districts and over 5,000 K-1 through K-13 schools.

Solution
A highly redundant hub-and-spoke fiber network design with 18,000 kilometers or 11,185 miles of fiber cable. TRENDnet fiber converters were sourced for Gigabit-fiber to Gigabit-Ethernet conversion nodes.

Intelligent 1000Base-T to 1000Base-FX Single Mode SC Fiber Converter
TFC-1000S20

SNMP Management Module
TFC-1600MM

16-Bay Fiber Converter Chassis System
TFC-1600

TRENDnet Fiber Converters Yielded 65% Hardware Savings

The Challenge
The Province of Quebec, Canada, sponsored an ambitious project titled 'Networked Villages.' The project mission was to build a zero downtime Gigabit network for an expansive remote rural region that encompassed 75 school districts and over 5,000 K-1 through K-13 schools. Before this project was initiated the region was only able to access the Internet through slow dial-up connections. Due to the large geographical scope of the project, over 40 Value Added Resellers (VARs) were contracted for the project build out.

There was preference for a network design that would directly benefit existing schools, junior colleges, universities, medical clinics and hospitals. There was also a desire for the new network to act as an incentive to companies that were considering establishing facilities in the region.

"This was a geographically large and complex project that included 18,000 kilometers or 11,185 miles of networked fiber. Many different school districts, municipalities and provincial governmental departments were involved. The rural region's comparatively low tax base drove the primary objectives of delivering an affordable, high speed and reliable network," stated Louis Belmont, Managing Director of InfoLogic EBM.

The Solution
A hub-and-spoke server design was created; the design sourced several different hardware and software brands. Four central servers in different cities were cross-connected using TRENDnet Gigabit fiber convertors to ensure network redundancy. TRENDnet Gigabit fiber converters were then sourced to extend Gigabit 'fiber spokes' from the central server cores to six other satellite towns. Fiber was then extended out from the satellite towns to designate educational and health care facilities. Satellite town network redundancy was created by extending a fiber backup ring that interconnected the towns. TRENDnet fiber converters were sourced for Gigabit-fiber to Gigabit-Ethernet conversion nodes.

"TRENDnet fiber converters were well suited for this project as they demonstrated exceptional reliability and yielded hardware cost savings in excess of 65% as compared to other tested brands," stated Louis Belmont, Managing Director of InfoLogic EBM. "Our clients and the large number of value added resellers that performed the actual product installations are very satisfied with the reliability and performance of TRENDnet fiber solutions."

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