BridgeWave

Case Study

Seattle University

Seattle University is the largest independent university in the Pacific Northwest. Located in downtown Seattle, the university must cross many buildings, streets and freeways in order to connect its remote campus buildings to the university's core fiber network. In some cases, it is not physically possible to install fiber between buildings due to obstacles. Even when it is possible, the construction costs are often prohibitive. Service provider alternatives are also typically unattractive due to high recurring costs.

CHALLENGE

Jason Hernandez, Senior Network Infrastructure Architect at Seattle University, stated that "I needed a reliable link that would provide the only data connection to the College of Nursing's Clinical Performance Lab with very low latency and would pass the complete Ethernet frame with 802.1Q and 802.1P bytes intact." The cost to install fiber to the location would have been well in excess of $100,000 and a leased line from the telco would have run several thousand dollars per month. Seattle University teamed up with their Value Added Reseller, noWYR, to find a better alternative. They tried a 5.8GHz license-free wireless link, however it proved unreliable due to the high levels of interference present in this band. Free space optics (FSO) links were not an option because the Seattle area is subject to fog events that would result in a poor level of link availability beyond 100 meter distanaces.

> ***" ...bringing up the link was literally a 'point and shoot' operation. The link has performed perfectly ever since."***
>
> - Jason Hernandez,
> Sr. Network Infrastructure Architect, Seattle University

SOLUTION

noWYR recommended the BridgeWave FE60 to provide a 100Mbps, full duplex connection that is virtually immune to interference due to the unique characteristics of 60GHz operation. noWYR was able to install the link within just a few hours. According to Hernandez, "The roof mounts were changed out and bringing up the link was literally a 'point and shoot' operation. The link has performed perfectly ever since."

More recently, the University's College of Nursing had a requirement to increase the bandwidth to support a telemedicine application. noWYR was brought in to upgrade the link with a full-rate GigE BridgeWave GE60 that provides 10 times more bandwidth with under 50 microsecond latency. Just like with the FE60 installation, the GE60 replacement link was up and running in under two hours.

noWYR purchased the BridgeWave link from Tessco Technologies, a leading BridgeWave distributor. Tessco maintains inventory of all BridgeWave products and typically ships the same day that purchase orders are received. Tessco maintains a team of knowledgeable sales representatives and technical staff to assist customers in developing a complete solution using their extensive inventory of thousands of products from hundreds of best-in-class suppliers.

CASE STUDY

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ABOUT noWYR

noWYR is leading provider of fixed wireless, data links and transportation in the state of Washington. NoWYR provides professional solutions for high-speed wireless communications, wireless data, and Internet applications. noWYR sells and installs wireless equipment, accessories, and computer equipment from the leading manufacturers. www.nowyr.com

ABOUT TESSCO

TESSCO supplies wireless communications and networking products and solutions to business professionals. TESSCO manages over 34,000 products from 350 manufacturers, at attractive prices, with guaranteed delivery.

TESSCO helps streamline your supply chain inventories and total costs. Customers rely on TESSCO's valued-added services, technical support and world-class customer service to provide solutions. Contact TESSCO at 1-800-472-7373 or visit TESSCO online at www.tessco.com.

ABOUT BRIGDGEWAVE COMMUNICATIONS

BridgeWave Communications, Inc. is the leading supplier of gigabit wireless solutions. Setting the standard for product quality, BridgeWave employs Highly Accelerated Life Testing (HALT) during design and Highly Accelerated Stress Screening (HASS) during production to ensure the highest levels of product reliability and customer satisfaction. BridgeWave has achieved ISO9001 certification for over five years running. For more information, please visit http://www.bridgewave.com.

BridgeWave

Case Study
Seattle University

CUSTOMER:
Seattle University

INDUSTRY:
Education

RESELLER:
noWYR
www.nowyr.com

CHALLENGES:

- Needed for a reliable link that would provide the only data connection to the College of Nursing's Clinical Performance Lab with very low latency and would pass the complete Ethernet frame with 802.1Q and 802.1P bytes intact.
- Avoid expensive fiber installation or leased line fees.
- Find interference-free alternative to 5.8GHz.

SOLUTION:

- BridgeWave's FE60 Fast Ethernet solution.

BENEFITS:

- 100Mbps, full-duplex connection that is virtually immune to interference.
- Quick and easy link installation.
- Avoided the costs of installing fiber or leased line fees.
- Seattle University has since upgraded to the GE60 to provide additional bandwidth to support a new telemedicine application.

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