LEASED LINE REPLACEMENT

Due to competitive market pressures, schools and universities are increasingly looking to IT departments to improve productivity and control costs. Schools and universities are recognizing the many advantages of utilizing high-capacity wireless links to replace fiber or aging copper-based leased lines, both in terms of cost and network performance.

On the cost side, GigE wireless links provide rapid return-on-investment, relative to the cost of leasing high-speed circuits. A GigE wireless link can provide fiber-like speeds and latency, for a one-time expenditure of about two-thirds of the annual cost of leasing an equivalent fiber-based service. Wireless GigE links also eliminate the initial installation costs for fiber services that may be needed in many cases when new fiber runs need to be constructed.

In addition to the significant savings, gigabit wireless links also provide increased capacity and a 'future-proof' network. Transmission rates provided by gigabit wireless links mean that the backbone will remain free of bottlenecks as application capacity needs grow. The millimeter wave GigE wireless links provide full-rate, non-blocked gigabit throughput speeds with latency comparable to that of an Ethernet switch, yielding a fiber-equivalent backbone link that is perfect for transporting real-time applications such as video and VoIP.

For a Leased Line Replacement White Paper, go to:
www.bridgewave.com/solutions/whitepapers.cfm

ABOUT

Founded in 1999, BridgeWave Communications is the leading supplier of high capacity 4G backhaul and gigabit wireless connectivity solutions. BridgeWave's point-to-point wireless bridges are widely deployed in mainstream enterprise and service provider network applications, while its carrier-grade FlexPort® solutions provide a future-proof mobile backhaul solution for carriers and mobile operators migrating to 4G/LTE/WiMAX or greenfield next generation network deployments.

Utilizing the spectrum in both microwave (11 – 38 GHz) and millimeter wave (60 – 90 GHz), the company's solutions offer up to ten times the bandwidth of comparably-priced lower-frequency license-free and licensed-band wireless links, while providing superior interference immunity and data security. BridgeWave's solutions provide fiber-comparable performance without the delay and cost associated with leased-lines.

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 is an ISO9001 registered company.

BridgeWave is a U.S.-based company headquartered in Santa Clara, California. The company has strong global presence with thousands of radios deployed in more than 50 countries. BridgeWave has a network of experienced distributors and resellers worldwide, making it today's primary vendor of high capacity, high frequency solutions. For more information, visit www.bridgewave.com

BridgeWave
COMMUNICATIONS

ISO 9001:2008
FM 59394

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BridgeWave
COMMUNICATIONS

EDUCATION

High Capacity Wireless Solutions

Backhaul Evolved®

BridgeWave Education Solutions

CASE STUDIES

CUSTOMER: Stanford University, CA

"I did my research so I knew what to expect as far as availability and speed, yet I was still blown away. Not only was the connectivity top notch, but this deployment will save Stanford a considerable amount of money - nearly $30-40,000 a year in recurring costs."

Matt Riley, *Director of Information Services*
Stanford University Jasper Ridge Biological Preserve

CUSTOMER: Cornell University, NY

"BridgeWave's wireless links have provided our staff and students with uninterrupted access to a dependable and secure network connection when issues affect our primary fiber connections."

Ed Kiefer, *Manager of Data Networking*
Cornell University

CUSTOMER: Agua Fria Union High School District, AZ

"Once installed, we received positive comments from students and teachers on the marked improvement in network performance."

Phil Denette, *Technology Director*
Agua Fria Union High School District

CUSTOMER: Rush University Medical Center, IL

"The long term costs of the BridgeWave links and the fact that the links could provide the bandwidth we needed was an attractive solution."

Eric Schoedel, *Voice Manager*
Rush University Medical Center

For additional details and other case studies, go to:
www.bridgewave.com/solutions/casestudies.cfm

APPLICATIONS

High-performance campus and off-site location connectivity, Wi-Fi and security camera backhaul and connectivity to service provider fiber.

SYNOPSIS

Schools and universities have been leading adopters of both wireless technologies and high-capacity wired networks. The prevalence of multi-building campus settings and the regular need to connect off-campus buildings into the core LAN drives the use of metro fiber optic cabling and high-capacity point-to-point wireless links to provide ubiquitous high-capacity user access. In addition, the widespread use of Wi-Fi access hubs and security cameras across the campus drives the need for capacity that can be quickly and flexibly deployed.

BridgeWave full-rate GigE links deliver the performance required for educational applications without the cost penalty associated with lower-frequency alternatives. BridgeWave 18 GHz to 80 GHz links provide a natural growth path for the 2.4 and 5 GHz wireless links historically deployed by many educational institutions, without the risks of interference that have become all too common in these "Wi-Fi" frequency bands.

To learn about the benefits of using wireless as an effective on-campus backhaul connectivity solution, download our Solutions Brief:
http://www.bridgewave.com/solutions/whitepapers.cfm

PRESS RELEASES

BridgeWave Brings High Capacity Network Connectivity to Stanford University's Jasper Ridge Biological Preserve.

Arizona State University Extends VoIP and Video Conferencing to Academic Partner With BridgeWave Gigabit Wireless Radios.

ORANO Achieves Cross-Border Network Connectivity between Canada and the U.S. with BridgeWave's Gigabit Wireless Links

Cornell University Selects BridgeWave as Preferred Provider for Wireless Network Hardening.

Deer Creek School District Establishes Affordable, Reliable, High-bandwidth Connectivity Using BridgeWave's Gigabit Wireless Links.

Universities Adopt BridgeWave's Gigabit Wireless Solutions for Campus Connectivity.

For more information on any of these press releases, visit:
http://www.bridgewave.com/company/pressreleases.cfm