

## ADVANCED SECURITY OPTIONS

BridgeWave's Advanced Security Options add another layer of data protection to BridgeWave's inherently secure wireless links, providing the most secure gigabit wireless solutions available.

### Advanced Encryption Standard (AES):

- 2256-bit key length AES - the strongest data encryption available
- Full-rate Gigabit or Fast Ethernet performance under all traffic loads
- Ultra-low latency - adds only 2 microseconds of packet delay
- Cipher Block Chaining (128-bit blocks) conceals patterns in plain-text
- Avoids costly and complex external solutions
- Includes Secure Management Option to protect symmetric key configuration



### Secure Management:

- Secure HTTPS access to network management agent
- RADIUS user authentication client



## 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 a 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](http://www.bridgewave.com)



**BridgeWave**  
COMMUNICATIONS



BridgeWave Communications, Inc.  
3350 Thomas Road • Santa Clara, CA 95054  
Ph: 1-866-577-6908 | 1-408-567-6900 | Fax: 1-408-567-0775

[www.bridgewave.com](http://www.bridgewave.com) @BridgeWave

© 2011 BridgeWave Communications, Inc. All rights reserved. BridgeWave, the BridgeWave logo, AdaptRate, AdaptPath, FlexPort, and Backhaul Evolved are trademarks of BridgeWave Communications in the United States and certain other countries. BridgeWave reserves the right to change specifications and features listed in this document without notice or obligation. 05/2011



**BridgeWave**  
COMMUNICATIONS

STATE & LOCAL  
GOVERNMENT

High Capacity  
Wireless  
Solutions



**Backhaul Evolved®**

# BridgeWave State and Local Government Solutions

## CASE STUDIES

**CUSTOMER:** Buncombe County, NC  
*"BridgeWave's gigabit wireless links ensured we would never lose network connectivity, which is critical when dealing with emergency assistance calls. The AR80 radios provided flawless connectivity and offered fiber-equivalent service."*

Bryan Dillingham, Network Communications Manager  
Buncombe County



**CUSTOMER:** Oregon Judicial District  
*"Our high-speed GigE link gives us a 'future proof' solution that can support other progressive technology initiatives, such as our planned move to an electronic, paperless courthouse environment."*

Brian Canfield, Network Administrator  
State of Oregon Judicial Department

**CUSTOMER:** Hunterdon County, NJ  
*"We successfully deployed a high-capacity wireless ring using BridgeWave's AR60 and AR80X links and anticipate saving \$3,000 to \$5,000 a month just by replacing the leased lines with the BridgeWave links."*

Mike Rasimowicz, Manager  
Hunterdon County Information Technology

**CUSTOMER:** Redbridge Council, UK  
*"We needed a quick and cost effective way to improve the reliability of our existing network and also provide services to some of our remote areas not connected to the fiber network."*

Lawrie Morrisson, Group Manager, Electrical Engineering  
Redbridge Council

**CUSTOMER:** Dallas Police Dept., TX  
*"With BridgeWave's high-speed, secure wireless links, the Dallas Police Department has gained a 'future-proof' network backbone that can scale to meet our evolving bandwidth requirements while helping us make downtown safer for our residents, businesses and visitors."*

Tom Lawrence, Deputy Police Chief  
Dallas Police Department

For details on these case studies, visit  
[www.bridgewave.com/solutions/casestudies.cfm](http://www.bridgewave.com/solutions/casestudies.cfm)

## APPLICATIONS

Seamless inter-building connections, redundant fiber overlay, highly-secure intelligence and surveillance systems, emergency preparedness and disaster recovery connections.

## SYNOPSIS

Security, reliability and deployment flexibility are core requirements of government and military networks. These networks must work even in times of turmoil and natural disasters, and must be secure against data interception and attacks against the network itself. The "spatial pipes" formed by the very narrow beam width antennas provide a natural defense against physical signal interception and attempts to jam the radio link – this provides a higher degree of security than is achievable running fiber optic cables through conduits. BridgeWave's full-rate GigE links can be deployed as highly-available primary network connections or can be run as diverse paths in parallel with fiber cabling to provide the ultimate in network availability. When unexpected urgent needs arise, links can be used to create temporary or disaster-recovery connections within hours.

To learn how wireless solutions can efficiently support the performance and management of your video surveillance systems, download our Solutions Brief:  
<http://www.bridgewave.com/solutions/whitepapers.cfm>



## PRESS RELEASES

Redbridge Council (UK) Utilizes BridgeWave's Gigabit Wireless Links to Deliver High-Speed Public Safety Video Surveillance System.



BridgeWave Improves Network Operations for Hunterdon County, New Jersey, Using Gigabit Ethernet Wireless Links.

NCC Canada Implements Cost-Effective Headquarters Expansion Using BridgeWave's Gigabit Wireless Links.

BridgeWave's Wireless Links Help Make Highland Village the Safest Town in Texas.

BridgeWave's Gigabit Wireless Links Provide Resilient Network Backup for Buncombe County (NC) Emergency Response Facilities.

City of Southlake Deploys Advanced Public Safety Video Network Using BridgeWave's Gigabit Wireless Links.

State of Oregon Judicial Department Project Presents a Winning Case for BridgeWave's GigE Wireless Links to Remove Bandwidth Bottlenecks while Lowering Networking Costs.

Dallas Police Department Anchors Innovative Video Surveillance System with BridgeWave's High-Capacity GigE Wireless Links for Backhauling IP Video to Municipal Mesh Network.

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

