

Customer Partner Story

Customer: Hickory Police Department

Area: Hickory NC, USA

Solution: BreezeACCESS® VL and BreezeACCESS Wi²

Application: Video surveillance

Our Partner

Carolina Video Security, Inc. (CVSI) is a provider of advanced security, surveillance, intrusion and access control solutions

The Challenge

To improve public safety and deploy ancillary services including public Wi-Fi and remote access

The Solution

Deployment of a wireless access infrastructure ideal for the diverse needs of the municipality, using BreezeACCESS VL for video connectivity and BreezeACCESS Wi² for public hot spots

The Result

- Cost effective city wide video surveillance coverage
- Public hot spot access utilizing the same network
- Multiple frequency utilization
- Flexible video surveillance camera expansion



City of Hickory, NC

Alvarion's video surveillance solution monitors key public areas in Hickory to secure improved public safety

“ *Having previously deployed Alvarion® equipment we were assured of an established, reliable, yet highly cost effective video surveillance solution.* ”

Captain Thurman Whisnant, Criminal Investigation Division, Hickory PD

About the City of Hickory

In the 1850s, under a huge Hickory Tree, a man by the name of Henry Robinson built a tavern of logs. The city of “Hickory Tavern” was established in 1863 and the name was eventually changed to “Hickory” in 1873. Today, Hickory North Carolina is a three-time All-America City on the Catawba River, just an hour south of the entrance of the Blue Ridge Parkway. More than 40,000 residents call Hickory their home and Hickory is the hub of a 350,000 metropolitan area.

About Our Partner Carolina Video Security, Inc (CVSI)

CVSI is a North Carolina-based provider of advanced security, surveillance, intrusion and access control solutions. The company solves challenging design, environmental and networking requirements, and employs the most advanced, proven and reliable technologies to help protect employees, facilities and operations.

The Challenge

The City of Hickory sought to improve public safety by increasing the local police force effectiveness in key public areas. In addition, Hickory wanted to deploy ancillary services including public Wi-Fi and remote access for Hickory Police Department (HPD). It was apparent that existing infrastructure did not service key video surveillance areas of the city and existing channel infrastructure in certain areas would not support the necessary communications cabling for cameras.

The Municipal Video Surveillance System (MVSS) project required complete coverage of a concentrated downtown area that encompasses Union Square public park which is surrounded by merchants and restaurants, the weekly Farmer's Market - also a popular location for fairs and festivals - Trade Alley and City Hall Parking. SALT Block, a city and educational facility and Ridgeview Public Library also required full video surveillance coverage although they fall outside the concentrated downtown area. The network can currently support a 5 mile radius with the potential to cover up to 50 square miles.



BreezeACCESS VL antenna

Headquarters

International Corporate HQ
corporate-sales@alvarion.com

North America HQ
n.america-sales@alvarion.com

Sales Contacts

Australia:
anz-sales@alvarion.com

Asia Pacific:
ap-sales@alvarion.com

Brazil:
brazil-sales@alvarion.com

Canada:
canada-sales@alvarion.com

Caribbean:
caribbean-sales@alvarion.com

China:
cn-sales@alvarion.com

Czech Republic:
czech-sales@alvarion.com

France:
france-sales@alvarion.com

Germany:
germany-sales@alvarion.com

Italy:
italy-sales@alvarion.com

Ireland:
uk-sales@alvarion.com

Japan:
jp-sales@alvarion.com

Latin America:
lasales@alvarion.com

Mexico:
mexico-sales@alvarion.com

Nigeria:
nigeria-sales@alvarion.com

Philippines:
ph-sales@alvarion.com

Poland:
poland-sales@alvarion.com

Portugal:
sales-portugal@alvarion.com

Romania:
romania-sales@alvarion.com

Russia:
info@alvarion.ru

Singapore:
asean-sales@alvarion.com

South Africa:
africa-sales@alvarion.com

Spain:
spain-sales@alvarion.com

U.K.:
uk-sales@alvarion.com

Uruguay:
uruguay-sales@alvarion.com

For the latest contact information
in your area, please visit:
www.alvarion.com/company/locations



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“*Alvarion's equipment provided us with the flexibility to secure a high performance wireless network solution that assures results.*”

Brad Silvernail, Carolina Video Security Inc., Raleigh, NC

The Solution

After issuing a public tender, Hickory multi-organization Security Camera Committee selected a solution designed by CVSI who chose a wireless network camera solution anchored by Alvarion's BreezeACCESS VL infrastructure. The network is comprised of 4 base stations and 19 Subscriber Units (SU's) that support a mix of 30 all-outdoor, SONY network cameras.

The cameras transmit footage wirelessly to the city's existing communications antenna, which then sends the footage to a video server in City Hall. The footage would then be viewed on the Internet by authorized users or in the HPD communications center on two Dell 42-inch monitors. An OnSSI NetDVMS multi-site, multi-server enterprise-scale network video recorder and camera management software platform is used to manage the entire system.

Two of the Alvarion BreezeACCESS Wi² Wi-Fi access points were deployed in Union Square to provide a public Wi-Fi service, offering additional connectivity to enable the HPD to remotely access the video system. A BreezeACCESS Wi² controller with mobility was deployed for centralized network management and control.

Alvarion provided a highly flexible and cost effective point-to-multipoint solution that was highly suitable for this type of deployment. Multiple SUs allowed CVSI to place just the right amount of radio, capacity and cost for each camera location. Alvarion's products also support the deployment of multiple cameras that can be optimally situated in strategic positions without network connectivity concerns. Additional benefits including multiple operating bands and multiple security/encryption layers have assured Hickory PD with improved video surveillance infrastructure.

The Result

Hickory City has implemented a robust and highly reliable video system that enables the Police Department to secure key public areas 24/7. The network allows for high quality, real time monitoring and control of strategic locations, allowing for accelerated response time and the allocation of suitable resources in case of an emergency. As a result of careful monitoring of strategic locations, the security and safety of Hickory residents has noticeably improved. HPD is considering the future expansion of their video surveillance solution including additional SUs for the command and control of vehicles used for special events and emergencies.

About Alvarion

Alvarion (NASDAQ: ALVR) is the largest WiMAX pure-player with the most extensive WiMAX customer base and over 250 commercial deployments around the globe. Committed to growing the WiMAX market, the company offers solutions for a wide range of frequency bands supporting a variety of business cases. Through its OPEN WiMAX strategy, superior IP and OFDMA know-how, and ability to deploy end-to-end turnkey WiMAX projects, Alvarion is shaping the new wireless broadband experience.