

Burlington County, NJ Deploys RADWIN

Solution for Improved Wireless Broadband Communications between Government Buildings.

Multi Point-to-Point solution chosen to connect county campuses without causing interference with military radio communications.

Overview

The government of Burlington County, NJ was looking to network seven disparate locations to form “campus coverage” in Pemberton Township. The challenge was to provide uninterrupted high speed voice and data communications to all locations from a single cell tower rapidly and affordably. Because these campuses are located near a military base, RF interference with military radar was a big concern to Burlington County.

The Challenge

Finding the right type of high speed connectivity was a challenge. There were a number of factors to be considered:

- **Cost** – The first solution considered by the customer involved running fiber optic cable to each location – however, the cost of this solution exceeded their budget.
- **Interference** – Burlington County is located near a major military installation – therefore a wireless solution would have to meet DFS2 (Dynamic Frequency Selection) rule mandated by the FCC, eliminating many radio-based solutions from consideration.
- **Uninterrupted campus coverage** – The network would have to support critical government functions, plus maintain connectivity to the local community college.

“RADWIN’s radios have no problem handling combined high data demands and VoIP traffic effortlessly. Once properly fine-tuned for location, the RADWIN 1000 radios with Hub Site Synchronization are a great fit for any operation large and small.”

Stephen Burr, Information Technology Supervisor
IT Communication Division
County of Burlington, NJ, USA



The Integrator

New Jersey Business Systems Inc.

New Jersey Business Systems, Inc. is an end-to-end systems integrator specializing in the full range of networking, communications, computer services, customer service and support.

www.njbs.com

The Distributor

Winncom Technologies

Winncom Technologies is a worldwide distributor and provider of complete networking solutions that address the needs of various markets and applications. They offer a full range of network infrastructure and access products based on the industry’s leading manufacturers.

www.winncom.com

The Solution

The customer ultimately decided the ideal solution was microwave radio communications. In this installation, RADWIN's WinLink 1000 radios, operating in 5.3/5.4 GHz and mostly 5.8 GHz bands in a Multi Point-to-Point deployment, connected the seven locations to the tower-mounted equipment. The RADWIN links enabled each remote site to benefit from a reliable dedicated connection with full guaranteed bandwidth.

Because they were concerned about RF interference, the System Integrator, New Jersey Business Systems, did RF planning. The Auto Channel Selection (ACS) mechanism built into RADWIN radios would ensure that transmission would be performed in the best channel, mitigating the possibility of interference with military transmissions.

The Result

Burlington County was able to install the RADWIN-based solution within their tight budget constraints. The system has easily handled the data communications needs of the network, while operating flawlessly.

Shortly after this deployment, Burlington County decided to install the RADWIN 2000 C and 2000 L high-capacity links at its Resource Recovery Complex, demonstrating their commitment to wireless and their satisfaction with the high level of performance delivered by RADWIN products.

"The County of Burlington is using the RADWIN WinLink 1000 with Hub Site Synchronization and is enjoying an impressive uptime considering that we are using multiple sets of radios that are running in close proximity to each other on different channels. In other words, the old industry issue of overlapping interference has been solved with this model of radios."

Stephen Burr, Information Technology Supervisor
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Why Burlington County Chose RADWIN

- » **Maximum reliability** – designed for robust performance in the harshest weather conditions.
- » **Frequency flexibility** – innovative Hub Site Synchronization (HSS) feature meets the DFS2 (Dynamic Frequency Selection) rule mandated by the FCC to eliminate interference common to collocation installations.
- » **Ease of installation and maintenance** – link is established and running in just hours.
- » **Long range** – up to 120 Km/75 miles.
- » **Versatility** – provides all telephony and data needs in a single link (Voice and Data, E1/T1 and Ethernet).
- » **Unrivalled price/performance** – more competitive than any other wireline or wireless solution of similar performance levels.

About RADWIN

Delivering best of breed wireless connectivity solutions, RADWIN is committed to providing a complete offering for the Sub 6GHz domain. RADWIN provides competitively priced products that achieve unmatched reliability, flexibility and installation simplicity and are deployed in over 140 countries around the world.

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