



## ***BATS Quick Deploy Case Study***

### ***Background***

Our client's field personnel sought to establish a wireless network communications system with ad-hoc field environments. The client wanted an automated solution where a command center at base station could employ an antenna aiming system that could access all locations simultaneously, locate one another, and quickly establish wireless links.

### ***Customer Challenge***

Using high gain, narrow beam, directional antennas, BATS needed to establish fast wireless network connections from the base station (central location) to access points that did not have specified locations. We also needed to meet these requirements without additional personnel or manual processes to manage the directional antennas.

### ***BATS Solution***

Within minutes of deploying the BATS BTS-3300, the client's system located all friendly access points, established links, and optimized network performance for highest bandwidth available on customer's equipment.

## ***Locate, Optimize and Track Wireless Connections***

This first-of-its-kind technology integrates a directional antenna system that is mounted on a pan-tilt aiming chassis with a wireless broadband radio. The integration, along with the performance characteristics of the directional antenna, create search patterns and predictive algorithms that automatically locate a desired connection point, establish communications and track one or both of the wireless broadband radios.

***"The throughput rates achieved in testing had never been attained at those distances, even with personnel experienced in aiming their own antennas"***

BATS Customer

## ***BATS Technology***

- Is a **cost-effective communications solution** compared to satellite or other alternatives
- **Quick return on investment.** Provides significant cost savings with the elimination of man-hours associated with manual redirection
- Supports and **enhances any wireless communications system** or vendor equipment
- Is **agnostic** as to frequency and broadband vendor radio equipment.
- **Rapid deployment** or extension of a wireless network
- Allows for moving vehicles on land, water and in air to **access critical broadband communications** resources such as data, voice over Internet protocol (VoIP) and streaming video
- **Solves the unique problems resulting from limited technical resources** in the deployment of wireless networks, applications requiring manual antenna alignment, or applications when frequent antenna realignment is required due to natural causes or equipment movement
- Provides **continuous optimization** for maximum throughput

## ***About Broadband Antenna Tracking Systems***

Broadband Antenna Tracking Systems (BATS) provides a proprietary software and hardware platform that locates, locks and tracks wireless broadband communication access points. Our products are designed for quick deploy communications centers and mobile to fixed and mobile to mobile vehicle communications.

BATS was founded by three information technology professors and researchers from Purdue University in West Lafayette, Indiana.

For more information, please visit [www.batswireless.com](http://www.batswireless.com).

