



Rural Access to Broadband Technology (RABT)

Fort Indiantown Gap National Guard Training Center

PRODUCTS USED

- FIPS 140-2 / 802.11 Cryptographic Client Software for Atheros-based WLAN Cards (3e-010F-A-2)
- FIPS 140-2 / 802.11 Cryptographic Client Software for Centrino mPCI (3e-010F-C-2)
- FIPS 140-2 Outdoor Dual Radio Wireless Mesh Node (3e-525A-3)
- FIPS 140-2 / 802.11 Cryptographic Client Software for Atheros-based WLAN Cards (3e-010F-A-2)
 - FIPS 140-2 / 802.11 Cryptographic Client Software for Centrino mPCI (3e-010F-C-2)
 - FIPS 140-2 Outdoor Dual Radio Wireless Mesh Node (3e-525A-3)
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Challenge

The Fort Indiantown Gap National Guard (FTIG) Training Center, located in Pennsylvania, is one of the nation's premier training installations. More than 1,900 full-time employees and active duty military personnel, and approximately 3,200 part-time National Guard and other military members are assigned to FTIG. The training center is one of the busiest in the country, educating more than 144,000 soldiers, airmen, marines and civilians in 2005 alone. The 17,000 acre site also has an outstanding record of environmental excellence in achieving its goals for conservation of resources and compliance to environmental standards, making it an ideal site for a non-intrusive, wireless network.

FTIG sought to provide its staff with wireless local area network (WLAN) data access among numerous buildings and outdoor areas within the massive complex. The network needed to provide secure access to the Internet, including the National Guard Portal (Guard Knowledge Online), and to meet all current Department of Defense security standards, including FIPS 140-2 Validation™.

3eTI — as a subcontractor to Booz, Alan, Hamilton (BAH) — was challenged to develop a wireless network design that met the military's stringent requirements, ultimately leading to the delivery of products to be deployed throughout the base. BAH led the charge in establishing the certification requirements for the wireless network, determined operational guidelines on how the network would be utilized by staff working at FTIG, and provided the ability to test the network's operation in a real-world, real-time environment.

Fiber rings only existed in some buildings, requiring the solution to use wireless bridges to enable seamless connection back to the network from either wired or wireless personal computers.

