CASE STUDY

Advanced Metering Infrastructure: US Navy
Secure wireless smart grid solution

SUMMARY: 3eTI provided the US Navy with a wireless-mesh network to support smart grid objectives. The network scales and integrates with metering technology for advanced device management through a central monitoring station.

OBJECTIVE
The solution had to establish secure wireless interconnections of building-level, advanced metering to support the Energy Policy Act of 2005 and the Energy Independence and Security Act of 2007. Department of Defense (DoD) installations across the country were included in the scope. The solution additionally required complex and flexible virtual LANs (VLANs) to reduce installation costs and expedite implementation.

SOLUTION
More than 5,000 WiFiProtect Access Points from 3eTI were installed as networked systems for measuring energy usage and allocation, as well as for real-time energy resource management, to reduce consumption. These installations now manage energy use, power quality and cost by connecting smart meters to WiFiProtect wireless units. Installation managers estimate energy savings of more than 10 percent with the system.

WiFiProtect delivers a smart-grid mesh network that is wireless and scalable. It can integrate metering technology for advanced metering device management and multi-device modes. The network incorporates bridging, access points for clients, mesh networking and secure encryption. Its rugged design protects against tampering and inclement weather by encasing equipment inside a lockable and rugged enclosure. It supports VLANs, allowing for operation by multiple users with varying levels of authorization.

WiFiProtect is an extensively credentialed offering: IEEE 802.11 standard compliance, Common Criteria EAL Level 4, FIPS validation, NSA Suite B upgradable. It also complies with stringent environmental guidelines that include HERO, HERP and HERF, as well as military standards (MIL-STD) for shock, vibration and electromagnetic interference.

For more information contact 1-800-449-3384 or email sales@ultra-3eti.com.

AT A GLANCE

Customer: US Navy

3eTI Solution
- WiFiProtect Access Point
- Site Surveys
- Deployment & Installation

Key Benefits
- **Always-On Availability**: Self-healing, self-configuring mesh networks
- **Information Assurance**: High-level data protection in compliance with DoD policy for secure wireless networks
- **Robustness**: Durability that guards against harsh environmental conditions
- **Easy Deployment**: Compatible with SCADA controls making it quick to install
- **Intelligent Features**: Help identify trends from data
- **Network-Centric**: Reduces workload and saves money
- **Flexible**: Open architecture, works with fixed and mobile networks

Since 1995, 3eTI has been a trusted supplier for the defense, government, energy and industrial automation markets worldwide. We connect and protect critical information and infrastructure systems through advanced cybersecurity, secure wireless, perimeter management, and security services.

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