

Advanced Metering Infrastructure

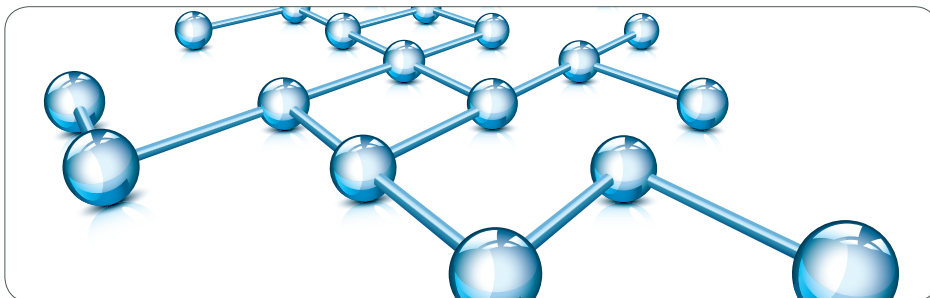
DoD Smart Grid Mesh Solution

BENEFITS

The 3e-523 multi-mode wireless data points offer 802.11i wireless technology, FIPS 140-2 validated security and multiple operating modes including mesh, bridge, Access Point, and client modes.

Solution advantages include:

- Flexible open architecture, with solutions for fixed and mobile networks where conditions preclude wire installation, lower cost of network installation, and fast installation ensure quick and quantifiable return on investment.
- Interoperable with IP standards based networks utility and SCADA controls
- Compliance with DOD policy for Secure Wireless networks (DODD 8100.2 and DISA Wireless STIG) to prevent unauthorized access and tampering.
- MILSTD Qualifications including HERO/HERP/HERF, EMI, etc.
- Broad acceptance and extensive deployments in Department of the Navy
- Validated on DOD platforms since 2002
- Military Utility Assessment Validation
- Cost Effective:
 - Less costly than comparable approved secure wireless products
 - Lower installation cost than similar wired systems
 - Can be integrated with existing wired systems and products
- Wi-Fi Alliance Certification
- Industry leading technology
- Designed and made in the USA



Challenge

Provide a scalable wireless network that integrates with metering technology for Advanced Metering device management and multidevice modes of operation that incorporate bridging, access points for clients, mesh networking, secure encryption, and rugged infrastructure design. It should also support VLANs allowing for multiple users with varying levels of authorization and applied security policies, and PoE reduced installation cost and expedited implementation.

Solution

3eTI's Air Guard™ 523-3 multi-mode secure wireless access points provide interconnection of building-level, advanced metering solutions in support of the Energy Policy Act of 2005 and the Energy Independence and Security Act of 2007. Over 5,000 Air Guard 523's are being installed at DoD installations in CA, WA and Naval District of Washington as networked systems for measuring energy usage, energy allocation and real time energy resource management to reduce energy consumption.

DOD installations are able to manage energy use, power quality and cost by connecting smart meters to Air Guard wireless units. DoD installation managers estimate energy savings of over 10% with the fully installed system.

About 3eTI

3e Technologies International (3eTI), an Ultra Electronics company, is a leading provider of highly secure wireless networks that enable critical systems security, infrastructure security and industrial automation for the military, government, industrial and utility markets. Its product portfolio includes proven and robust secure wireless mesh networks, sensor networks, cyber security, and perimeter security solutions, deployed for a range of applications, including military base security, onboard military ship communications, rapidly deployable public safety communications, and advanced metering infrastructure for SmartGrid programs. 3eTI's platforms are approved for use by the most stringent and demanding customers: the U.S. military.

Ultra Electronics

3e Technologies International (3eTI)
9715 Key West Avenue, Suite 500
Rockville, MD 20850
(800) 449-3384
sales@3eTI.com
www.ultra-3eTI.com
www.ultra-electronics.com

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