

Shipboard Wireless

The Navy's Choice for Secure Wireless



USS GEORGE H.W. BUSH (CVN-77)

BENEFITS

- Increased efficiency via ubiquitous access to shipboard unclassified LAN services
- Secure: Dynamic key for each user and user session. Authentication using digital certificates based upon DoD standards
- Portable: 3eTI developed crypto client software that provides secure WLAN for laptop
- Compliance/FIPS Validation: FIPS 140-2 Validated™, Common Criteria certified
- Meets shipboard requirements for HERO/HERP/HERF EMI Shock and Vibe
- Industry leading technology
- Designed and made in the USA
- Cost effectiveness through use of Power over Ethernet (POE) (eliminates power line cabling)

Challenge

To meet the growing reliance on network-centric technologies, the Navy's Integrated Shipboard Network System (ISNS) must flex to meet the increased demand for access to network services. The Navy's goal in meeting this demand was to accommodate the increased access demand across legacy platforms without costly wholesale changes to the existing network equipment. The resulting solution must provide ubiquitous connectivity incorporating Information Assurance (IA) features, satisfy DoD and Navy Certification and Accreditation (C&A), and meet stringent shipboard environment requirements including EMI, Shock, and Vibration standards.

Solution

To meet the Navy's need for cost effective ubiquitous connection to ISNS, 3eTI quickly demonstrated an affordable wireless solution meeting the Navy's stringent security and Information Assurance (IA) requirements by producing the world's first FIPS validation wireless access point.

The 3eTI's AirGuard™ 3e525A-3 Wireless Access Point provides secure mesh network, gateway, and bridge / repeater capabilities for wireless voice, video and data applications.

3eTI successfully demonstrated a secure end-to-end wireless LAN (WLAN), fully interoperable with the existing ISNS aboard the USS COLE's (DDG 67). Additionally 3eTI developed FIPS 140-2 Validated™ Security Server and Cryptographic Client software that fully satisfied DoD IA and Navy C&A requirements.

The resulting secure wireless technology solutions for ISNS extension were transitioned by PEO Ships S&T under a Rapid Technology Transition agreement with PEO Command, Control, Communications, Computers and Intelligence (C4I) to its IT-21 ISNS program of record. As of 2010, ISNS wireless has been deployed on USS HOWARD, MASON, COLE, MOUNT WHITNEY, BOXER, and GEORGE H.W. BUSH, and deployments planned for USS NIMITZ and ESSEX in 2011.

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.

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