

# CASE STUDY Federal Government



## Secure Wireless for Next Generation Navy Supply Ships Fortress Supports Shipboard Warehouse Maintenance System

### Next Generation Navy Supply Ships

General Dynamics NASSCO currently is under contract to the Naval Sea Systems Command (NAVSEA) to build eight T-AKE class ships. Each T-AKE ship is 689 feet long and has a capacity for about 6,700 metric tons of dry cargo weight and approximately 2,400 metric tons of fuel. These ships are designed to provide ammunition, food, fuel, repair parts and other necessities to ships at sea. The ships will contribute to the Navy's ability to maintain a forward presence. The lead ship, USNS Lewis and Clark (T-AKE 1) was delivered to the U.S. Navy's Military Sealift Command last June.

The T-AKE ships will be equipped with a first-of-its-kind, commercially-based warehouse management system, known as the Shipboard Warehouse Management System (SWMS), provided by HK Systems of New Berlin, Wisconsin. This contract serves as one of the first major wireless awards since the Navy lifted its ban on wireless networking.

### Wireless Security Requirements

The ability to track and manage cargo efficiently is a major concentration for the T-AKE program and SWMS is a key part of the overall solution. NAVSEA needed to modify SWMS to meet new wireless security requirements. They required a solution that would not only allow the tracking of information securely, but also permit the transmission of data wirelessly while at sea or in port. Fortress provided NAVSEA the most comprehensive solution and has begun the implementation process.

Fortress is providing its Security Gateways and Secure Clients to enable a secure wireless link between SWMS and its end users. These solutions maintain Defense Information Systems Agency's (DISA) Joint Interoperability Test Command (JITC) and National Institute of Standards and Technology's (NIST) FIPS 140-2 certifications.

Fortress is committed to supporting the U.S. Navy in its efforts to maintain a forward presence and protect our nation. The T-AKE program is just one example of how Fortress is working with the Navy. The Navy has entrusted Fortress with a number of other secure wireless initiatives including flight line maintenance and ship-to-shore communications.



### Challenges

- Secure wireless communications on the next generation sealift ships
- Meet requirements for FIPS validation
- Broad device support required
- Provide transparent operation for users

### Solution

- Fortress Security Controllers
- Fortress Access Control Server
- Fortress Secure Clients for DOS and Windows

### Results

- Fortress as a security overlay for Shipboard Warehouse Maintenance System (SWMS)
- FIPS validated security in place for wireless network
- Transparent operation for users
- The U.S. Navy is able to track and manage cargo efficiently



For more information about the Fortress' product suite for Federal Government:  
phone: 813.288.7388  
visit: [www.fortresstech.com](http://www.fortresstech.com)  
email: [info@fortresstech.com](mailto:info@fortresstech.com)

Fortress Technologies Inc.  
4023 Tampa Rd., Ste. 2000  
Oldsmar, FL 34677