United States Navy
Space and Naval Warfare Systems Command
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Consolidated Afloat Networks and Enterprise Services (CANES) Fact Sheet

Description

The Consolidated Afloat Networks and Enterprise Services program is the Navy's next generation tactical afloat network. CANES represents the consolidation and enhancement of five shipboard legacy network programs to provide the common computing environment for more than 40 command, control, intelligence and logistics applications.

Background

The keystone of modern warfighting is a securely networked force. The network provides the ability to share information and possess a common understanding of the battlespace. Protection of the network to ensure freedom of access to timely, accurate information is imperative. Department of Defense systems and networks are constantly under attack and must be continuously defended. Defense mechanisms must be an integral part of the design and implementation of systems and networks across the enterprise to ensure success. In addition, capabilities must be deployed to react and respond to cyberwarfare threats.

In the afloat environment, consolidation through CANES will provide an adaptable and responsive information technology platform that rapidly meets changing warfighter requirements. This strategy strengthens the network's infrastructure, improves security, reduces the existing hardware footprint and decreases total ownership costs. In addition to providing greater capability, CANES will allow Sailors to benefit from reduced operations and sustainment workloads as a result of common equipment, training and logistics.

In addition, the program will:
- Enable the Navy to realize significant enterprise cost savings as more operational communities migrate into the CANES environment.
- Support the Navy's Maritime Strategy by delivering agile and effective knowledge superiority capabilities to the fleet.
- Provide an ability to share information and possess a common understanding of the battlespace.
- Provide a mission critical network that meets current and projected warfighter requirements for operational availability, material availability and net ready capability.
- Provide integrated voice, video, data and system management functions to reduce shipboard workload.

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CANES is a paradigm shift in resourcing, acquiring, fielding, operating and supporting Navy networks from a business and operational perspective. The government is employing a multiple-phase, competitive down-select contract strategy for the design and development of the CANES Common Computing Environment network infrastructure. Competitive contracts were awarded to Lockheed Martin Mission Systems and Sensors and to Northrop Grumman Space and Mission Systems March 4, 2010.

The government has addressed certification and accreditation efforts, fleet introduction preparations, and application hosting on the Lincoln Strike Group and other afloat platforms as risk mitigation efforts. All these activities are designed to maximize the potential for success of both system development teams by mitigating potential risks.

In July 2011, the program passed Critical Design Review that established the design baseline and provided assurances that CANES will meet stated performance requirements within cost and schedule parameters. Following down-select to a single vendor in 2012, the first CANES installation on a fleet destroyer is planned for late in fiscal year 2012. Ultimately, the network will be deployed to more than 180 ships, submarines and Maritime Operations Centers by 2023.

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