

SPAWAR Today

SPAWAR is one of the Navy's five acquisition commands and has approximately 7,500 employees. The command is responsible for developing network-centric warfare, business information technology and space systems for the Navy, the Department of Defense and other government agencies.

Transforming Information Into Decisive Effects

The Navy of the future will differ vastly from the Navy of today. By 2020, networking will link sensor grids with platforms and bases, and situational awareness will encompass so much information exchange that the line between intelligence providers and intelligence consumers will blur. FORCENet is the key to the Navy's transformation efforts, and San Diego-based SPAWAR is leading the way in designing, developing and engineering FORCENet capabilities.

SPAWAR's Office of the Chief Engineer designs the architecture and standards for FORCENet, the Navy's vision for network-centric warfare and an essential element of the Sea Power 21 concept. SPAWAR's mission is to implement FORCENet and transform information into decisive effects for naval and joint warfighters.

FORCENet integrates warfighters, sensors, command and control, platforms and weapons into a networked combat force, providing warfighters the means to efficiently execute better, timelier decisions. But FORCENet is more than a warfighting system; it also encompasses business strategies through the acquisition of network-centric, surveillance, reconnaissance, information technology and space systems. Ultimately, FORCENet will significantly enhance knowledge superiority by allowing Navy and Marine Corps elements to link with joint, allied and coalition forces via seamless interoperability.

Team SPAWAR, consisting of diverse Program Executive Offices (PEOs), directorates and field activities, is uniquely composed to deliver network-centric capabilities to the Navy, the Department of Defense and other government agencies:

- SPAWAR Headquarters (San Diego)
- Joint Program Executive Office for the Joint Tactical Radio System (San Diego)
- PEO C4I (San Diego)
- PEO Space Systems (Chantilly, Va.)
- PEO Enterprise Information Systems (Arlington, Va.)
- SPAWAR's Systems Centers are located in New Orleans, San Diego, Charleston, S.C., and Norfolk, Va. The SPAWAR Space Field Activity is located in Chantilly, Va., and the Washington Liaison Office is located in the nation's capital.

The Naval NETWAR FORCEnet Enterprise

The Navy's acquisition organizations that support the Air, Surface, Submarine, Expeditionary and Network communities have realigned under an enterprise model to increase efficiency, decrease costs and improve "speed to capability" for the Fleet.

The Naval NETWAR FORCEnet Enterprise is an enterprise approach to implementing FORCEnet and delivering network-centric capabilities. This is a collaborative effort between the Naval Network Warfare Command (NETWARCOM), Office of the Chief of Naval Operations (OPNAV), SPAWAR and a host of additional stakeholder organizations.

The NNFE's Board of Directors is led by top admirals who meet monthly to assess the enterprise's progress in delivering its products and services. The NETWARCOM Commander is the Chief Executive Officer, the SPAWAR Commander is the Chief Operating Officer and OPNAV N-6 is the Chief Financial Officer.

In addition, the NNFE Board of Directors has created four Cross Functional Teams that meet regularly to establish the way ahead by developing process mapping and metrics. Those teams include:

- Strategic Planning
- Warfighter – Customer Assurance
- Provider Modernization and Life Cycle Support
- Financial / Funding

The goal is to develop processes, collaboration and metrics across the enterprise to align the traditional functional commands. This will help the Navy better understand the costs of conducting business and how it relates to readiness. It will allow the enterprise to make better decisions when applying critical resources – both dollars and manpower – and provide the right products and services to the warfighter faster and more efficiently.

The Criticality of Network-Centric Warfare

Network-centric warfare focuses on how warfighters access needed information quickly and efficiently to obtain knowledge superiority. This "netcentricity" spans the entire tactical spectrum from the strike group commander to unit ships and Marine units in the field. Netcentricity greatly increases the availability of information and it recognizes that users best define their information sources to determine what they need operationally and when they need it.

Network-centric systems are recognized not just as combat support systems but also as weapons systems in and of themselves. They are integrated into virtually every weapon – command and control systems, precision guided munitions, unmanned aerial vehicles, for example – and they deliver the

ability to marshal assets “on the fly.” It is not the weapons or the platforms but the network-centric systems that are the common connection points.

In February 2006, the Assistant Secretary of the Navy for Research, Development and Acquisition (ASN (RDA)) announced a restructuring in the Navy’s information technology arena. The flag officer responsible for Navy-Marine Corps Intranet (NMCI) development was designated as the lead for the newly-established PEO for Enterprise Information Systems. PEO EIS initiatives now include NMCI, the Base Level Information Infrastructure - One NET program and the Navy Enterprise Resource Planning program.

PEO Space Systems, which was established in May 2004, is the primary space element of Team SPAWAR and coordinates all Department of the Navy space research, development and acquisition activities. PEO Space Systems reports directly to ASN (RDA) for the Leased Satellite, Ultra High Frequency Follow-On and Mobile User Objective System satellite communications programs.

C4I – also known as command, control, communications, computers and intelligence – is a warfighting imperative that cuts across all platforms and missions. PEO C4I was established by ASN (RDA) in November 2002 in recognition of the criticality of C4I systems for the joint warfighter. PEO C4I oversees more than 100 acquisition programs and projects that cover all C4I disciplines – applications, networks, communications, intelligence, and electronic surveillance systems for both afloat platforms and shore commands.

The PEO C4I organizational structure gives fleet and external entities a single C4I point of contact that is designed to deliver the most effective C4I capabilities available.

Functional program offices (responsible for product development and sustainment efforts)

- Distributed Common Ground System - Navy / PMW 120
- Deployable Joint Command and Control / PMW 140
- Command and Control / PMW 150
- Networks and Enterprise Services / PMW 160
- Communications / PMW 170
- Intelligence, Surveillance, Reconnaissance and Information Operations / PMW 180

Integration program offices (responsible for platform integration and serve as primary fleet points of contact for installation and C4I capability delivery)

- International C4I Integration / PMW 740
- Carrier and Air Integration / PMW 750
- Ship Integration / PMW 760

- Submarine Integration / PMW 770
- Shore and Expeditionary Integration / PMW 790

In a closely collaborated effort, SPAWAR's Office of the Chief Engineer develops the FORCENet architecture and standards and the PEOs apply the architectures and standards to acquire, align and field systems to help make the FORCENet vision a reality.