

sure sufficient capacity and capability of shared shipboard infrastructure to host these services. New systems design must comply with the enterprise architecture and this shared infrastructure as prerequisites. Program managers will be key beneficiaries of this shared infrastructure, as they will see vastly reduced cost and complexity in deploying new services for deployed forces.

Shared application, content and data storage ashore. Critical to supporting the afloat Web services environment in an enterprise architecture is a data warehousing capability for pre-staging content for afloat users. Infrastructure, connectivity, and processes need to be identified in the enterprise architecture to support pre-staging of content at the Naval Computer and Telecommunications Area Master Stations (NCTAMS) teleport sites for information to be moved afloat. Additionally, processes must be established and solutions engineered to ensure synchronization of afloat data from the teleport sites back to the authoritative sources of data throughout the shore Navy.

Today, the Navy has no enterprise solution for providing Web data services and content storage. The result is that each individual command pays for Web servers, database engines, content servers, Web server system administrators, engineers and developers. They either do this through divisions set up and maintained within their command, or they contract out for the service. Under the NMCI contract, commands can add data storage and Web site service to their contract, but this does not address cross enclave data service standardization issues, particularly replication and data accessibility for users outside NMCI. Additionally, it does not help to identify and eliminate duplicative sources of data as anyone willing to pay can host their content within NMCI.

Maintaining thousands of separate static and dynamic Web servers and databases for content hosting/storage throughout the Navy is inefficient operationally and fiscally. With the advent of the NEP, a presentation mechanism for Web service is in place through the enterprise for interface of data to the end user. As mentioned, the data warehouse could be collocated at the teleport sites managed by the NCTAMS to host the content for these services. The advantages to having Web services content hosting in the enterprise architecture include cost savings due to elimination of individual Web infrastructure at individual commands, savings in manpower and training, improved security by using only DoD standard firewall and router configurations at the teleport sites, easier implementation of a user role-based access service, easier identification of authoritative data sources and elimination of duplicative data sources.

Engineering of these key services into an enterprise architecture under an enterprise-wide governance structure will enable ubiquitous access to data securely, reliably, and rapidly throughout the Naval enterprise. This enterprise architecture will be the basis for achieving the seamless warfighting described in Sea Power 21.



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IT'S NETWORKING THE FUTURE

By JO1 Jd Walter, Naval Personnel Development Command Public Affairs

In today's high tech, network-centric operational environment the Navy's Information Systems Technicians (IT) represent the core of a command's ability to get and stay connected. In an era of joint strike, multi-platform, network-centric warfare, information technology is central to mission accomplishment and operational readiness. To ensure the Fleet has the best trained Sailors at the ready, the Center for Information Technology (CIT) was stood up onboard Fleet Combat Training Center San Diego, Calif. The Center is charged with providing training that meets the needs of the Fleet using the most relevant and efficient delivery methods supporting the personal and professional development of all ITs in the Navy.

"This is a great day for the Navy," said Commander, Naval Personnel Development Command, Rear Adm. Kevin Moran. *"Establishing the Center for Information Technology marks a significant milestone in the Revolution in Training. In this Center we have created for the first time a single entity responsible for content, curriculum, delivery, and resources for IT training, and for management of information technology in the Navy."*

Working with the Naval Network Warfare Command (NETWARCOM) and the Information Professional Center of Excellence (IPCOE), CIT is building on the efforts of the Task Force for Education through Commitment to Education and Learning (EXCEL). The initial Job Task Analysis (JTA) for the IT rating is currently being used as a foundation for review of existing curriculum and development of new IT training. Additionally, an Information Professional (IP) Officer community JTA is under development in support of the IP Officer basic course and career planning tools for the IP community. Working closely with the Fleet to identify needs and requirements, this effort will ultimately give information technology professionals easier access to career development resources and opportunities, by providing the right training, at the right time, and in the most appropriate location. *"A key part of our mission is ownership of the process for Sailors' personal and professional development through the Sailor Continuum. We are responsible for training and education of all ITs in the Navy from the moment they enter the service to the day they depart,"* said CIT Commanding Officer Capt. Craig Turley. *"Our goal is to enhance both operational readiness and mission accomplishment. Ultimately, information technology touches each and every member of the Navy."*

Unique from its sister Learning Centers, CIT is taking a cross functional approach to the realm of information technology, and provides training to eleven ratings (IT, ET, CTO, CTM, CTT, CTR, STS, ET, FT, FC and OS).

"We are taking training and education to a new and unprecedented level," said Moran. *"We will make the greatest Navy in the world and the best Sailors in the world, even better. Together, we are going to create an educational system that will be the standard all others will follow."*

For more information on the Navy's Revolution in Training and the Center for Information Technology, please log into Navy Knowledge Online at www.nko.navy.mil.