

Info**DOMAIN**

DECISION SUPERIORITY FOR THE WARFIGHTER

WINTER 2008-2009



VCAT

- **SECURITY**
- **INTEROPERABILITY**
- **EFFICIENCIES**



DECISION SUPERIORITY FOR THE WARFIGHTER

FEATURES

- 3 My Domain**
Director of Operations, RDML (select) Klein, defines her role
- 7 NETWARCOM hosts IA Reception**
NNWC commanders host homecoming (Part 3 in a series of 3)
- 10 Navy support for IA Sailors & their Families**
New policy dictates IAs & their families receive proper care
- 15 Dominican Republic participates in MSSIS**
The sharing of AIS information extends to more than 52 nations
- 16 TIP Group cuts Costs & saves Money**
Six NETWARCOM employees share ride and program's benefits
- 17 OPSEC asks ... Who Needs to Know?**
Tips on protecting personal information on the World Wide Web
- 18 SPAWAR's Pacific Systems Center opens**
NCTSI provides C4ISR tools to warfighters around the world
- 20 DEFCON 16 "Capture the Flag"**
Pensacola Sailor shares information after competing
- 22 Lorenzen ... Father of Electronic Warfare**
NRL scientist's life history, also has special ship named in his honor
- 26 CARS shortens Original Timeline**
Staff Increase & Infrastructure Reductions gives Task Force an edge
- 29 Look Who's Talking!**
New Network Center aides Afghan Mol in secure communications
- 30 The Evolution of Naval Networks**
What NMCI taught the DoN about building NGEN
- 34 Undersea Communications**
Real-time communications with surface & shore now possible
- 36 ODAA adapts to Stay Ahead in Cyber**
New Procedures greatly increase ODAA's business efficiency

DEPARTMENTS

- 5 Force Chaplain**
- 6 Hqtrs News**
- 8 Letters from the Ground**
- 11 Short Circuits**
- 13 Cyber Warrior**
- 38 Team Spotlight**
- 43 People Spotlight**
- 44 Special Recognition**
- 48 Diversity**
- 50 Sailor Remembered**

OUR COVER: Photo Illustration by MC2(SW/AW) Justin L. Ailes. For more information about the DCNO N6 directed CARS Task Force program, see pages 26-28.

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Hello, I appreciate the opportunity to introduce myself. I am NETWARCOM's Operations Officer, and I am responsible to Admiral Starling for day-to-day operations and security of Navy networks as well as execution of our Information Operations (IO), Space Operations and Signals Intelligence (SIGINT) missions. Our team of professionals team runs both classified and unclassified programs to ensure individuals around the globe are getting the network, information, space operations and tactical SIGINT support they need. We make sure mission critical systems are ready to go, and if there are problems, we ensure the right resources are brought to bear to get them fixed.

We ensure the fleet has the space assets that they need and that they understand how to use them. Additionally, we deploy Sailors throughout the world afloat, in the air and with tactical ground units who provide IO and time critical SIGINT support to Fleet and Joint commanders. The heart of our operations involves the many military and civilian members of our team stationed at commands around the globe who are on watch 24/7 to provide responsive support to the Fleet.

I began my Navy career within the Naval Aviation structure, serving as division officer, department head, squadron Executive Officer and Commanding Officer and I

Photo by MC1(SW/AW) Corey T. Lewis

served as Wing Commander for the Navy's Strategic Communications Wing. The EC-130 and E-6 aircraft that I flew were communications platforms, so a lot of my aviation experience was blended with communications experience. In 2001, I became the N6 (Assistant Chief of Staff for C4I and Information Warfare Commander) for the USS Kitty Hawk Battle Group. During that tour, I worked closely with Information Professionals and Information Warfare Officers for the first time.

How did your previous positions help prepare you for your current position?

Serving in jobs that had increasing amounts of responsibility taught me how to develop as a leader. Each job I had prior to coming to Naval Network Warfare Command gave me experience in how the operational Navy relies on its communications systems and how we've come to rely on networks for command and control. That reliance on networks means we also have to have rigor in how we keep our networks secure. We must know they're secure and if there is a problem, we must quickly identify the problem and bring resources to the table to fix the problem. As a Strike Group Information Warfare Commander I had the opportunity to work closely with other Warfare Commanders in integrating IO capabilities and effects into Fleet operations and more fully understanding the importance of integrating kinetic and non-kinetic warfighting capabilities.

What are some of the changes you have made since reporting as Director, NETWARCOM Operations?

So far, we've re-organized within N3 from Current Ops and Future Ops to being organized by mission area. We now have within N3 divisions that have expertise in Network Operations, Information Operations, SIGINT, Space Operations, Computer Network Operations and Electronic Warfare. We stood up the Office of Compliance and Assessment to get our arms around network security issues from a compliance perspective. This office will operate similar to other TYCOM staffs that have an inspection division. Just as we have inspectors to provide oversight of squadron maintenance departments, we are going to inspect Information Assurance programs and have a more robust process where there is oversight, enforcement and accountability. To best support the war fighters, we are establishing processes that have transparency and accountability. It's really important that networks be secure and accessible.

Do you have a particular focus established?

Sometimes we get really focused on the capabilities that networks bring and we forget to understand that they have to be protected as well. Not protected in that we deny service, but protected in that we need to have a well-

educated and well-trained Information Assurance work force. I want to have visibility into network health so we can understand the status of our networks and not be just in a reactive posture. We would rather not wait until something breaks, and that's what I intend to start with the Office of Compliance and Assessment.

We also want to ensure the fleet understands that we have a 24/7 battle watch captain. If there is a problem involving any of the services and support we provide, they can always call the watch. I see the battle watch captain every day that I am here in Norfolk and check on the global status of the networks.

What do you feel is your key role as the N3?

As N3, I make sure that my team understands Admiral Starling's intent and his commander's guidance. I have an important role to play to ensure that the commander's goals, plans and intent are carried out. I also ensure that VADM Starling has visibility on today's key issues. It is critically important for N3 to work with other directorates such as N5 (Plans and Policy) and N7 (Training). It is difficult to separate the areas directed by N3, N5 and N7; and it's important that I make sure that ops, plans and training folks are well-aligned.

We are also working with NMCI, ONE-NET and with IT-21 program managers to make sure the compliance piece is something that we capture. To be able to operate the Net, we have to make sure we are complying with all of the current policies and guidance, and I am in a great position to have my folks work on that.

Next Generation Enterprise Network is the biggest change on the horizon, and we want to make sure that on Oct. 1, 2010, when NGEN becomes a reality, that we're ready, and I think operations are a big part of that. The N3 part is to capture all of the lessons we've learned in accountability, compliance and enforcement.

What kind of changes do you foresee in this ever-changing command?

We will change as the world changes around us; since cyber is a growing area and we will have to meet the demands as people learn what cyber means to them. Every day, we become better integrated with the other Type Commanders. They understand that we are trying to support them -- we are absolutely committed to supporting the war fighter. That means educating them and increasing awareness. This is also a network security issue. Educating commanders is a significant role that we'll play. That will also increase in importance as time goes on.

During my time at NETWARCOM so far, I have been greatly impressed with the poise and professionalism of everyone who works here. I am confident that we'll keep making progress, and succeed in all the goals we have set forth. ☺

AT A **GLANCE**

CAPT Margaret D. Klein officially reported as Director of Operations in June 2008. Prior to her arrival at NETWARCOM, she was nominated for appointment to rear admiral lower half.

Upon graduating from the Naval Academy in 1981, Klein was commissioned and designated a Naval Flight officer in 1983. While assigned to the "Ironmen" of the Fleet Air Reconnaissance Squadron 3 in Barbers Point, HI, she accumulated 2,700 hours in the EC-130Q "Hercules." Klein went on to serve at Naval Air Forces, U.S. Atlantic Fleet and Naval Military Personnel command.

In 1991, she returned to the Ironmen for her department head tour, flying the E-6A "Mercury" as the squadron moved from Hawaii to Tinker Air Force Base in Oklahoma City, OK. The Weymouth, Massachusetts native was then selected to serve in the White House Military Office in the Presidential Contingency Plans Directorate. In 1997 she became a Brookings Legislative Fellow, serving on the staff of Senator Olympia Snowe, briefing defense issues.

In 1999, Klein graduated from the University of Southern Maine with a Masters of Education, and returned to VQ-3 as its executive and commanding officer. The Ironmen won the Battle E and Maintenance Excellence awards during her tour. Upon leaving squadron command, Klein served aboard USS Kitty Hawk Battle Group staff as the N6 (Assistant Chief of Staff for C4I and Information warfare Commander (IWC)). During her tour on the Carrier Group 5 staff, the Battle Group participated in Operation Enduring Freedom and Operation Iraqi Freedom.

She returned to Oklahoma for a third time as deputy, then wing commander of Task Force 124 and Strategic Communications Wing 1. Upon completion of major command, Klein was assigned to staff of Commander, Strike Group 8 where she served as the chief of staff for the Eisenhower Strike Group. In December 2006, Klein became the 82nd Commandant of Midshipmen where she was responsible for the military and professional development of the 4,300 members of the Brigade of Midshipmen at the Naval Academy. ☺



NETWARCOM's Force Chaplain

As the new NETWARCOM Force Chaplain, I am pleased to have the opportunity to communicate with you in my first InfoDomain Chaplain's Column.

My responsibilities as Force Chaplain include the oversight of all religious ministry support throughout our domain – a global workforce of about 14,000 Sailors and civilians. Additionally, I serve as an advisor on spiritual, ethical and morale issues, as well as facilitate various types of care for our service members and their families.

During my tour, I will visit many NETWARCOM commands and detachments. While these visits will be brief, they will be valuable in helping me to understand the spiritual needs within our domain and to ensure the appropriate support is provided.

Including myself, there are five chaplains throughout NETWARCOM. The other four chaplains are assigned to Navy Information Operations Commands, where they provide direct support to the NIOC service members and families. Consequently, most of our commands do not have their own chaplain. These commands rely on the support of chaplains from other services or area commands – usually a base chaplain. I am available to coordinate care with other chaplains in these cases, as needed.

As you may know, chaplains spend a significant percentage of their time caring for Sailors and their family members. This may include offering counseling and guidance, or assisting with a range of personal and professional issues.

I stand ready to facilitate that care for our NETWARCOM families, and look forward to meeting many of you during one of my upcoming site visits. ☺

May God Bless,

George Adams

CAPT USN

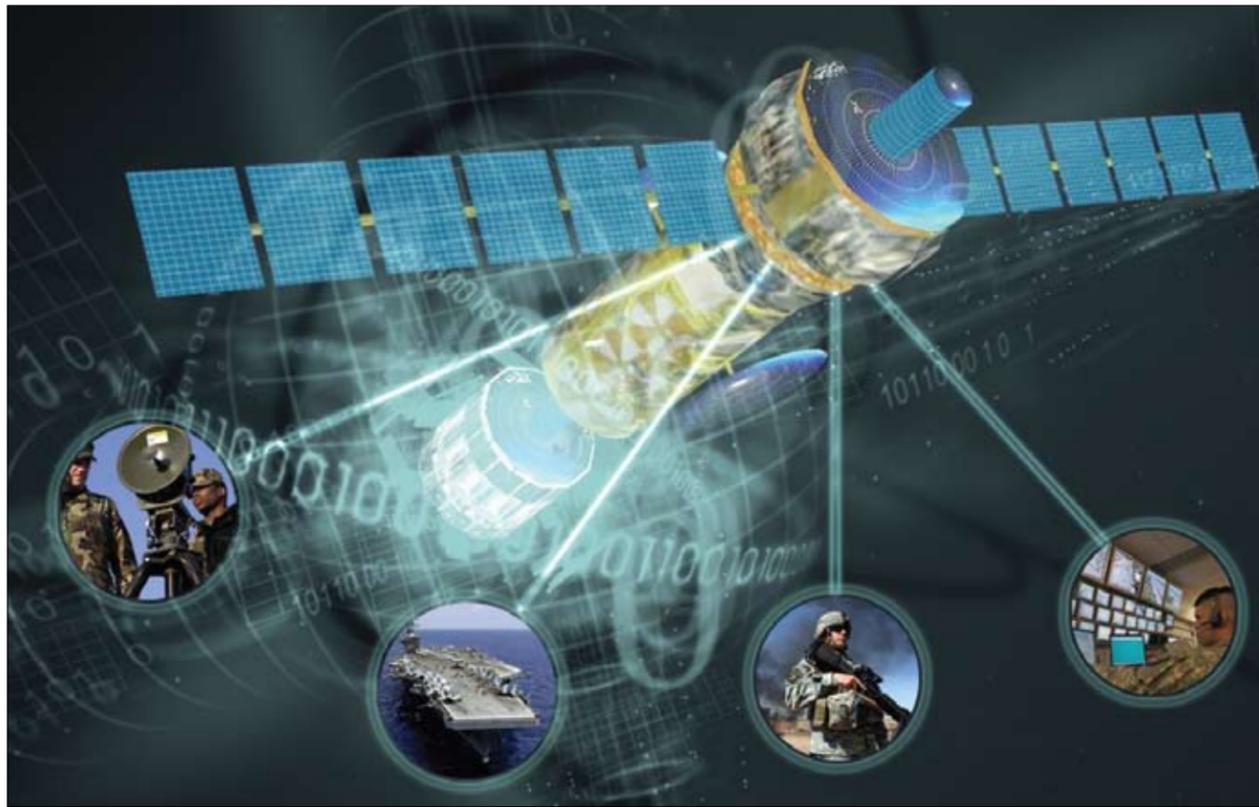


Photo Illustration by MC3(SW/AV) Justin L. Ailes

Navy transitions to Wideband Global System

New generation of spacecraft revolutionizes military communication

From NETWARCOM Public Affairs

NORFOLK, VA – CAPT Kevin Johnson, former Operations Coordination and Execution Lead at Naval Network Warfare Command, recently announced the transition of Pacific fleet communications to the Wideband Global System (WGS-1) -- the first in a series of six new generation communications satellites that will dramatically improve our ability to provide timely and accurate information and decision superiority to the fleet.

“This is a tremendous first step in improving our communications, both afloat and ashore,” said Johnson. “It will not only improve our tactical communications but it will also allow us to conduct our logistics and other routine

communications in a timelier manner and allow Sailors more flexibility to complete on-line training courses and communicate with their families.”

Each WGS satellite provides more communication capability than the entire Defense Satellite Communications System (DSCS) constellation and has been eagerly anticipated by Navy forces in the Pacific theater. Follow-on WGS-2 and WGS-3 will provide improved communications capability in the Indian Ocean and Atlantic.

The WGS program augments, and will eventually replace, the existing DSCS which provides super high frequency (SHF) wideband communications.

The reconfigurable antennas on WGS satellites will enhance fleet operations by increasing the commander’s ability to tailor coverage areas to match operational scenarios. Navy Carrier Strike Groups and Expeditionary Strike Groups will use WGS to provide high-capacity connectivity between ships and into the terrestrial portion of the Defense Information Systems Network. Ships operating in the Western Pacific will have the first opportunity to use these new satellites. The USS Fitzgerald (DDG-62) was the first ship to access WGS-1 during the recent transition to operational status.

The WGS satellites are key elements of a system that is

expected to provide a significant increase in communications capabilities for our Fleet deployed around the globe. These satellites provide communication capacity, connectivity and flexibility for Naval Forces both afloat and ashore. The WGS constellation will maintain interoperability with existing and programmed X- and Ka - band satellite terminals.

WGS supports the Navy’s warfighting information exchange requirements, enabling execution of tactical Command and Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR); battle management; and combat support information. WGS also augments the current Ka band Global Broadcast Service (on UHF

follow-on satellites) by providing additional information broadcast capabilities.

“We’ll be closely monitoring the transition to WGS to ensure we are using it to its fullest capacity and are eagerly awaiting WGS-2, WGS-3 and the rest of the Wideband Global System constellation,” said Johnson.

NNWC hosts IA Spouse Reception

From NETWARCOM Public Affairs

The Commander, Naval Network Warfare Command, VADM H. Denby Starling II, and his wife recently held a reception at Heritage House to honor spouses of NETWARCOM Sailors who deployed from the local area.

Heritage House is Starling’s residence onboard NAB Little Creek, Norfolk, VA.

The event was also attended by NETWARCOM Vice Commander, RADM Edward H. Deets III and Mrs. Deets, Sailors and their spouses from NIOC Norfolk who recently returned from an Individual Augmentee assignment, and other command representatives from NETWARCOM and NIOC Norfolk.

The purpose of this event was to bring spouses and NETWARCOM personnel together in an atmosphere of camaraderie, to meet with other IA spouses and share experiences about the challenges and expectations of an IA deployment.

“This reception was a great opportunity for NETWARCOM staff personnel to let the IA families know how much they are appreciated, and to acknowledge the sacrifices they make during IA deployments,” said Cheri McCullough, NETWARCOM IA Coordinator.

Over the past year, nearly 800 enlisted and officers assigned to the NETWARCOM domain completed IA deployments in Iraq, Afghanistan, Bahrain, Djibouti, Guantanamo Bay, Cuba, Horn of Africa, Philippines, Germany, and other locations in support of the Global War on Terrorism.

“NETWARCOM looks forward to planning future IA receptions and homecoming ceremonies to honor service members for their many contributions and sacrifices in supporting the Navy’s mission,” added McCullough.

WELCOME HOME NETWARCOM HQ MEMBERS

- CAPT Mary Anderson, Iraq
- LCDR Bradley Nalitt, Iraq
- LCDR Damien Hofheinz, Iraq
- LT Wilfred CruzBaez, Iraq
- LT Kenya Williamson, Iraq
- LT Aaron Mueller, Iraq
- ITCS Daniel Claycomb, Afghanistan
- ITCS Curtis Campbell, Philippines
- ITC Eric Barney, Djibouti
- IT1 Hakim Bristow, Djibouti
- ET1 Jeremiah Mullikin, Afghanistan
- IT1 John Rutlin, MacDill AFB
- IT1 Michael Gray, Afghanistan
- IT2 Chaquania Lewis, Guantanamo Bay
- IT2 Todd Newell, Djibouti

NETWARCOM HQ MEMBERS CURRENTLY ON AN IA DEPLOYMENT

- CDR Eugene Carver
- YN1 James Knight
- LT Tristan Borne
- LT Richard Dickinson
- LT Darren Roberson
- LT Harvey Price
- ENS Welton Lawrence
- IT2 Steve Blake
- YN2 Megan Purpura
- ET2 Shane Hardie
- MC3 Travis Burcham
- IS3 Richard Gorman

3 IN A SERIES OF 3

Letters from the GROUND

Hello Everyone,
This deployment -- an Individual Augmentee assignment -- has been a life changing experience to say the least. It all began with my initial processing at the Expeditionary Combat Readiness Center (ERC), training at Ft. Jackson, SC, and trip to the Horn of Africa, (Djibouti).

All in all, training at Ft. Jackson was a blast -- HOT ... HOT ... HOT, but fun! Not only did I learn basic combat skills, I learned a lot about myself. From never having touched a weapon in my life to qualifying as a sharpshooter (34 hits out of 40!!!), rolling over in a HumVee, getting lost in the woods and having to navigate our way back to the starting point, to shooting a grenade launcher ... I truly found a piece of myself that I didn't know existed.

The trip to HOA was long. I've never flown on a C-130 aircraft before. That was an experience in itself. I guess I felt a little better when I looked around at the 90+ Sailors on the flight and realized that they were just as squished, uncomfortable, and miserable as I was. Thank goodness for ear protection, iPods, and friends to get you through a long, cold, bumpy, congested flight.

What am I doing in Africa? I am working in the Special Security Office (SSO) as a one-man shop. Basically I'm still doing everything that comes with being in an SSO, but have been given the opportunity to be active in many more aspects of my job that I rarely had a chance to do back at NETWARCOM. I also deal with some administrative tasks; such as joint awards, evaluations, travel coordination, and mail.

I work six days a week and hang out with friends on my day off. I am also working toward getting my Expeditionary Warfare pin.

The living conditions out here are better than I had expected. If I would've arrived in HOA a few months earlier, I would've shared a tent with, probably, 4 – 6 other women. They have since upgraded to CLU's (Containerized Living Unit) ... more or less a conex box, consisting of two people to a room. And of course, we share a bathroom with all the other women who live in the same section of CLU's.

A part of our mission out here is "Helping Africans solve African challenges." We have numerous volunteer programs, including an English Discussion Group (where we discuss miscellaneous topics of concern or interest

with the local Djiboutians), community assistance projects (painting local schools), Cheetah Refuge (assisting with the upkeep of the refuge), and volunteering at numerous children's orphanages, and others.

I'm at my halfway mark for this deployment, and I am anxiously anticipating my return home. I've had an eye opening, yet amazing experience out here. I've met some great people, made some close friends, and learned a lot about myself since the beginning of this journey. It has been an experience that I will remember for years and years to come. ☺

YN2 Megan A. Purpura

Navy formalizes support for IA Sailors & families

From U.S. Fleet Forces Public Affairs

NORFOLK, VA -- Individual Augmentee (IA) program leaders announced a policy update Oct. 17 to identify IA Sailors' parent commands and to establish Navy wide support for all IA Sailors and their families. The policy update was drafted to ensure the same fervor and vigilance that traditionally deploying Sailors and families receive.

The new policy, in NAVADMIN 293/08 (IA Gram 08-03), also identifies specific minimum levels of support required for all three types of IA Sailors; Individual Augmentee Manpower Management Assignment (IAMM) Sailors, Global War on Terrorism Support Assignment (GSA) Sailors, and Mobilized Reserve Sailors, as well as their families, in preparation for, during, and after an IA deployment.

"With approximately 13,000 Sailors on IA orders, one of Navy leadership's top priorities is supporting the mission and communicating every facet of the IA process with families," said ADM Jonathan Greenert, commander, U.S. Fleet Forces Command. "Site visits, where we talk to people who have been there or who are going, give us great feedback to make sure we have a good understanding about this IA program."

IAMM Sailors are traditional IAs completing their tour in a temporarily assigned duty status, who will return to their previous commands at the completion of their IA tours. Commands deploying IAMM Sailors will maintain traditional command

responsibilities for IA Sailor and family support.

Sailors serving on a GSA will also receive traditional family support from their detaching command while on an IA tour; however, Expeditionary Combat Readiness Center (ECRC) will provide all administrative Sailor support.

This administrative support will include but is not limited to:

- Exam ordering and exam administration;
- Deployment pay, housing, medical and legal support;
- Personnel accounting of Sailors and their families during a disaster;
- and Continuous reach back support for emergent deployment issues.

The Navy is currently filling approximately 60 percent of the GWOT assignments through this GSA process.

Mobilized Reserve Sailors who were not mobilized as part of an established commissioned Reserve component unit, will receive command and family support from their assigned Navy Operational Support Centers. They will receive the same IA administrative support from ECRC as GSA Sailors.

The IA Sailor and family support set forth in this new policy includes but is not limited to:

- Pre-deployment Sailor screening;
- Family support via ombudsmen or family readiness groups;
- Periodic contact with IA Sailors while deployed;

- Periodic contact with families while IA Sailors are deployed;
- and, The inclusion of families in accounting and evacuation orders during disaster response efforts.

With more than 27,000 Sailors executing one of the types of IA orders in 2008, ensuring clear, consistent support throughout the deployment process is a top priority for Navy leaders.

"Our mission is to ensure a streamlined, standardized oversight of IA support programs Navy wide," Greenert added. "This challenge includes supporting the organization, training and equipping these IAs, supporting their families, providing a predictable and consistent accession process and integrating the IA process into the respective career paths of all of our IAs."

The success of this new policy is also heavily dependent on the efforts of the Command IA Coordinator (CIAC). As mandated in IA Gram 08-02, every active command must designate a CIAC. These CIACs will work closely with command ombudsmen to ensure commands provide the adequate levels of support identified in IA Gram 08-03, as well as to ensure a smooth hand-off of support responsibilities when a family moves from one region to another.

With IA Gram 08-03 identifying who holds parent-command responsibilities for IAs and their families, future IA Grams will clarify what those responsibilities include. ☺

NMCI Det Norfolk Sailors reach new Certification Heights

Story & photo by ITC(SW) Mildred Rivera-Fisher, NMCI DET NORFOLK

The mission of the Navy and Marine Corps Intranet (NMCI) Detachment, Norfolk, VA, is to develop Information Systems Technicians who are qualified and industry-certified to operate, maintain, and administer secure, reliable, end-to-end information systems defined by the goals of the Sea Warrior Strategy.

Sailors and Marines selected for a tour of duty within the Military Detachment (MILDET) work side-by-side with staff members from the EDS Corporation in maintaining and operating the NMCI Network and supporting its users.

The unique nature of this special program provides a wide

diversity of training and educational opportunities for Sailors, including on-the-job training at NMCI's Help Desk, Site Operations facilities, and within the NMCI Network Operations Center; certification courses; and testing in the classroom,

in addition to hands-on training available in a dedicated computer laboratory.

At the completion of a MILDET tour, the Sailor returns to the Fleet as an Information Systems Technician, certified in prevailing IT industry standards and possessing the skills required of our next generation of Cyber Warriors.

Recent changes within the program coupled with a renewed command focus on the mission have yielded tremendous results, exemplified by Sailors' exceptional performance over the past calendar year.

Since the program's inception in 2001, four NMCI

MILDET Sailors obtained advanced certifications beyond that of Microsoft Certified Systems Administrator (MCSA) during their tour. With the help and enthusiasm of some very talented and creative Sailors, the number of certifications has skyrocketed.

This year, MILDET Sailors have already accrued 11 advanced certifications, including eight Microsoft Certified Systems Engineers (MCSE), one Cisco Certified Network Associate (CCNA), one Ethical Hacker certification, and one Certified Technical Trainer (CTT), with many more expected in the coming months throughout the remainder of 2008.

While detachment efforts have been successful at creating the environment necessary for MILDET Sailors to excel, it is the hard work and dedication of individual Sailors that is responsible for recent successes.

One such Sailor is IT1(SW) Joshua Huot. Within one year of reporting aboard, Huot has achieved several firsts in NMCI Detachment Norfolk's history, and earned an

unprecedented level of certifications at a blistering pace—including MCSA, MCSE, CCNA certification, and Ethical Hacking.

The first in the command's history to earn both CCNA and Ethical Hacking certifications, Huot has paved the way for his fellow Sailors, assisting numerous others to prepare for their advanced certification examinations. Several of his protégés are now mentors and are reaching out to their shipmates, helping them excel. Shipmates helping shipmates has become a guiding principle within the detachment, allowing us to take full advantage of our most valuable asset, our people. ☺



(Right to left) IT1 Shenina Francis, IT1 Nathaniel Flowers, Mike Booker (EDS Training Liaison), IT2 William Hamous & IT2 Shawn Sweitzer complete the Transcender to qualify for a voucher towards a certification exam.

Naval Satellite Operations Center (NAVSOC) CHANGE OF COMMAND

CAPT Kevin R. Johnson relieved CAPT Diana T. Cangelosi as CO, Naval Satellite Operations Center (NAVSOC), Point Mugu, CA, in November. Prior to reporting to NAVSOC Point Mugu, Johnson served as head of Space Operations and Integration and later, Current Operations Coordination and Execution at NETWARCOM. He is a member of the Navy Space Cadre and was instrumental in standing up the NETWARCOM Space Cell; a reach back element for space operations and planning utilized by Navy strike groups and numbered fleets. 📧



Photo by MC1(SW/AW) Corey T. Lewis

DISA Europe recognizes NCTS Naples

Story & photo by IT1 Otis Friday, NCTS Public Affairs

The Defense Information Systems Agency's Outstanding European Defense Information Infrastructure (DII) Facility award was presented to Naval Computer and Telecommunications Station (NCTS) Naples Satellite Communications Facility (SATCOMFAC) during a recent ceremony in Lago Patria, near Naples, Italy.

The award recognized the facility's exceptional dedication to providing satellite communication services throughout the European region.

During the previous year, the SATCOMFAC was selected as the 2006 DISA Global Information Grid Outstanding Facility of the Year Runner Up, Category IX-B, Standardized Tactical Entry Point (STEP).

"The award is a reflection of all our Sailors' hard work and dedication to provide exceptional communication to all of our customers; wherever they are and whatever the mission," said ETCS(SW) Reynolds, SATCOMFAC

Leading Chief Petty Officer. "This award represents so much effort, but the true reward is the outstanding service and dependability Naval SATCOM facility Lago Patria provides on a daily basis."

SATCOMFAC provides satellite communication services in support of warfighters within their AOR.

Some of their major customers include DISA Europe, Joint Chiefs of Staff, Chief of Naval Operations, United States Special Operations Command, United States European Command, Commander Sixth Fleet, 37 Ground Mobile Forces Units and 71 Maritime Mobile Force units, to mention just a few. With this many customers around the globe, it is a major milestone to earn

the recognition as the best in the business. The NCTS Naples SATCOMFAC is already hard at work to win the award next year. 📧



(Left to right) Army Col. Michelle Fraley, ET1 Christopher Goodyear, Edwin Roberts, ETCS Ken Reynolds, CWO4 Jeff Lund, David Zaidivar & CDR Gene Costello receive DISA's Outstanding Facility award in Lago Patria.

GNOC Sailor chosen for OCS

Story & photo by MC1(SW/AW) Corey T. Lewis

IT1(SW/AW) Taysha Colon of the Global Network Operations Center Detachment Norfolk was recently selected to attend Naval Officer Candidate School in Newport, RI.

"Being selected means everything to me. I have achieved my immediate goal that I have been working toward since I joined the Navy eight years ago," said Colon.

She enlisted in the Navy in August 2000 and reported to Recruit Training Command in Great Lakes, IL. Upon completion of basic training, she attended Information Systems Technician Class "A" School.

In March 2001, Colon reported to her first duty station -- commander, Amphibious Squadron 2 -- where she installed software and served as a liaison between the staff and ship

While there, she deployed onboard USS NASSAU (LHA-4) for nine-months in support of Operation Iraqi Freedom and Operation Enduring Freedom.

During the deployment, she earned her Enlisted Surface Warfare Specialist and Aviation Warfare Specialist pins. This was a very successful tour, as she advanced from seaman apprentice to petty officer first class within five years.

"Petty officer Colon has an intense desire to excel -- she always gives 110%," said ITCS Pedro Ramos, Colon's LCPO. "She leaves nothing undone and she constantly leads from the front leaving no one behind."

Colon credits her success to all the people she has crossed paths with who have helped her along her journey. She is also very proud to

serve her country, following in her father's footsteps, who served for 22 years in the Army.

To qualify for this program, the New York native completed her Bachelor of Arts degree in Computer Science from St. Leo University last December. She began her officer training in October and, upon completion of her training in February 2009, she will be commissioned as a Surface Warfare Officer (Information Professional Option).

Colon encourages Sailors who apply for a commissioning program to be persistent and remain engaged in their selection process. "Keep your eye on the prize and know that no one cares more about your package than you do," she concluded. 📧



(Left to right) IT1(SW/AW) Larry Williamson assists IT1(SW/AW) Taysha Colon with her daily GDAs (Government Directed Actions).

STA-21 selects NCTAMS PAC Sailor

By MC1(SW/AW) Corey T. Lewis

ET2 Bryan Lay of Naval Computer and Telecommunications Area Master Station Pacific was recently selected for the Seaman to Admiral Program-21 (STA-21). Lay was one of 200 to be selected for this year's crop of future officers.

"My selection is an enabler. It enables me to carry out my vision of the Navy, ensuring that all of us have a better and stronger Navy and that we are leaving it better than we found it," stated Lay. "Most importantly, it provides me the opportunity to help my fellow Sailors by using my experiences as a prior enlisted in the officer ranks."

Lay enlisted in the Navy in January 2005. After attending Tech Core, ET "A" and "C" school, he reported to NCTAMSPAC as an ETSA, quickly becoming the subject matter expert on the system for Fleet Submarine Traffic. He was selected as NCTAMSPAC Blue Jacket Sailor of the Year, and advanced to ET2 in March 2007. He also volunteered for an Individual Augmentee position in the Horn of Africa.

"ET2 Lay has been an integral part of this command," added Lay's LPO, ET1 Joseph D. Moore. "I met ET2 when I checked on board in September 2006 as his work center supervisor. He quickly impressed upon me his dedication to the military, and specifically the Navy as a whole. I have never had any doubt that ET2 Lay possessed the skills necessary to advance through the ranks of the Navy, and he will soon be reaping the rewards for his hard work and thorough devotion to his duties as a Sailor."

Lay credits a great deal for his success to his father's encouragement. However, Lay is also quick to elaborate on his ancestral background which includes a coal miner, a soldier, factory worker, truck driver and heavy equipment operator as being inspirational, too.

For an aspiring Sailor who may be considering the STA-21 program, Lay stated that potential candidates need to be motivated and be willing to lend a helping hand to make a difference in the Navy.

The Ohio native is scheduled to attend the Officer Training Command in Newport, RI, in February 2009. Following OTC, he will attend Miami University of Ohio in Oxford, OH, for 36 months to obtain a Bachelors of Science degree in Management Information Systems with a minor in Japanese language studies.

Upon completion of his education, Lay will be commissioned a Surface Warfare Officer /Information Professional officer.

"It's not about the pay and it's not about the quality of life," he emphasized. "If you want to be an officer for reasons other than this...go for it."

Lay summarized his motivation by stating that it's like anything else in life; if you want it, you have to earn it. "To earn it, you have to strive for it. Anything is possible with hard work and dedication!"

The Seaman to Admiral-21 commissioning program is designed to meet the goals of the Navy in the 21st century, while creating a fair and equitable system for outstanding active duty Sailors to receive a top-notch college education and become a commissioned officer.

For more information on STA-21, go to <https://www.STA-21.navy.mil>.

(Right) ET2 Bryan Lay standing his post as an IA while assigned to the Horn of Africa. (Below) Lay and a fellow service member pose for a snapshot with children from surrounding communities. (Official U.S. Navy Photos)



Dominican Republic joins Global Maritime info sharing System

By MC3 Alan Gragg, U.S. Naval Forces Southern Command / U.S. 4th Fleet Public Affairs

SANTO DOMINGO, Dominican Republic -- U.S. Navy and Dominican Republic officials met recently to announce the Dominican Republic's participation in the Maritime Safety and Security Information System (MSSIS). Commander, U.S. Naval Forces Southern Command (NAVSO)/ U.S. 4th Fleet RADM Joseph D. Kernan joined Dominican Republic representatives in a ceremony to mark the beginning of this cooperative endeavor.

"The sharing of Automatic Identification System (AIS) data is fundamental for mutual Maritime Domain Awareness (MDA) among our regional partners," said Kernan, discussing the importance of the Dominican Republic joining MSSIS. "This is a critical first step in successfully achieving the ability for partners in the region to share information about maritime traffic. It will dramatically improve the collective safety and security of our maritime environment."

MSSIS is an international system, developed by the U.S. Department of Transportation (DOT) in partnership with NATO and the U.S. Navy to provide a way for global partners to share AIS information. There are currently 52 nations participating in MSSIS, which collects and displays AIS data from multiple mobile and stationary platforms for real-time MDA to multiple users through a web-based, password-protected system.

"Due to the sheer quantity of unclassified maritime data already available, Maritime Domain Awareness is beyond the capability of any one nation to collect or process," said Kernan. "Achieving collective Maritime Domain Awareness

in the Western Hemisphere requires a global approach and regional teamwork. Through our collaborative efforts we can achieve a much better understanding of the maritime environment and more effectively enhance the safety and security of our waters."

NAVSO/4th Fleet is approaching Collaborative Maritime Domain Awareness in three phases: obtaining data, which requires multinational sharing; using existing and emerging technologies



An operator using an AIS system.

to collaboratively analyze the data; and establishing the Inter-American Naval Telecommunications Network (IANTN) aboard partner nation vessels, so ships can use a classified network to add Intelligence support.

"MSSIS is also a cost-effective way for countries to improve their awareness at sea," said CDR Dave Wirth, IANTN Director and NAVSO/4th Fleet Communications department head. "An AIS antenna and receiver costs less than \$4,000 including the computer



with Internet."

Collaborative Maritime Domain Awareness directly supports the U.S. Maritime Strategy by promoting collective maritime security and is also aligned with the U.S. State Department's Global Maritime Partnership Initiative.

As the Navy component commander for U.S. Southern Command (SOUTHCOM), NAVSO oversees maritime operations throughout Latin America, including exercises and deployments, counter drug trafficking support, and theater security cooperation events.

U.S. 4th Fleet is the numbered fleet assigned to NAVSO exercising operational control of U.S. Navy units temporally operating in the SOUTHCOM area of focus, which encompasses the Caribbean, Central and South America, and surrounding waters.

According to CAPT Vince Giampaolo, NETWARCOM Director of FORCENet Innovation & Experimentation, MSSIS was first tested during one of the domain's annual Trident Warrior Sea Trial experiments.

"This technology has made strides in global maritime domain awareness," said Giampaolo. "It's very encouraging to see how far it's come along with more and more countries realizing the benefit of sharing AIS information."



WHO NEEDS TO KNOW?

By Scott Carey, Navy OPSEC Assessments Div Lead
Graphic Illustration by Beth Vinson

As many of us try to assimilate into the twenty-first century, we have a tendency to forget the lessons learned from history. As I look back on my younger years, growing up in my parents' house, I was always told "Listen to what I have to say, learn from my mistakes so you don't make the same ones." I still try to apply this philosophy to my life today.

Communications technology has shown an upward spike in the past several years with no downward trend in the foreseeable future. Take for example the ability to communicate on the World Wide Web through sites such as Facebook and MySpace. Both of these social networking websites have been featured in the news as a growing medium, especially for those ages 18 to 40. Between the two networking sites, there are more than 170 million active users. What does this mean? In some way, the owner of each account has probably placed information online identifying themselves, family members, friends, associated organizations, and so on, for the entire world to see.

One of our adversaries (Al-Qaida) has written that at least 80 percent of intelligence needed to conduct operations against an opposing force can be obtained via open source. Open source consists of more than just print and broadcast news stories. Other avenues of open-source intelligence can be, but are not limited to, observing routines, listening to conversations, dumpster diving, and even scouring blogs and networking Web sites.

Our personal information – as well as that for work, family

and friends -- is always in danger of being compromised if we do not keep it out of open-source media.

No matter how knowledgeable you are about operations security (OPSEC), if you share your information with others not educated in OPSEC it can unintentionally pose a vulnerability to you.

For instance, you have a MySpace Web page and you are conscious about the vulnerabilities inherent to this type of site; you employ good OPSEC measures ensuring no personal data is divulged. One of your friends, family members, or co-workers links to your page and then posts pictures using your name and general information about the area in which you live. Even though you were cautious, some of your personal information was made available in a public forum. At this point, if an adversary intends to make you a target, the data aggregation begins from that linked site.

To illustrate the importance of OPSEC in your daily working environment and personal life, a seized terrorist organization document states they are looking to obtain the following information:

1. Service members and their families
2. Friends, neighbors, and coworkers
3. Service member's job
4. Programs and projects involved in
5. Organizations
6. Residence
7. Work place
8. Times of leaving and return
9. Children

Have you unwittingly released any of this information in the open? If you have not, has anyone else?

MI5, Britain's Security Service, released a message to all British troops warning about terrorists monitoring networking Web sites. "We now know terrorists are using hundreds of false accounts to access the personal pages of many service personnel listed on regimental forums on the site. Last year, MI5 uncovered a plot to kidnap a British Muslim soldier who had recently returned from service abroad and to behead him in an on-line Internet broadcast." The Canadian government has also released a similar message to their forces.

Don't wait for the U.S. government to issue a similar warning. Take it upon yourself to deny the adversary information they seek. As an OPSEC professional, I come across many networking Web sites and Blogs that amaze me with the amount of detail provided. Once aggregated with other open-source material, the stated 80 percent of the intelligence to carry out a mission on the target of interest has been gathered.

Employ the principles of OPSEC!

As I was taught, I challenge you: Learn from other's mistakes and don't make the same ones. Before you divulge information in an open-source forum, ask yourself the question "Who needs to know?" If the answer isn't "the entire world," then rethink the venue of communication and keep it away from the adversary.



(Left to right) Karen Barnett, Ruth Fox, Bill White, Mark Scott, Elizabeth Spear and Hazel Brown prepare to leave work for the day. The six NETWARCOM employees are co-participants in the Transportation Incentive Program here. (Photo by MC1(SW/AW) Corey T. Lewis)

NETWARCOM Group goes green while cutting Travel Costs & saving Money

By George D. Bieber

On October 2, six Naval Network Warfare Command employees made the choice to save money by participating in an innovative program that can reduce traffic and help the environment.

The Transportation Incentive Program (TIP) offers active-duty Sailors, Marines and DoN civilian employees vouchers to purchase monthly public transportation passes. The vouchers can also be used toward other transportation services, such as vanpools or commuter trains.

"I made the initial inquiry into TIP and the other five members saw it as a 'no brainer'," said Karen Barnett, management analyst with NETWARCOM's Force Manpower and Personnel directorate. "Saving money, helping with traffic mitigation and cutting down on environmental pollution are the biggest benefits of the program."

Barnett was concerned at first as to whether or not she could find enough people to join her vanpool, but once she leased the seven-passenger van from the Hampton Roads Transportation department, she was able to fill it up within days.

Barnett said the process was fairly simple. She completed a TIP form and submitted it through her supply department, the Commanding Officer of Naval Amphibious Base Little Creek, Naval Base Norfolk, and then the Department of Transportation in Washington, DC.

"I think most people feel a bit

apprehensive about starting such a program, because of pick-up and drop-off points, but once they find out that they receive a reimbursement check from the government, up to \$115 a month -- per person -- the savings set in."

Ruth Fox, a paralegal in NETWARCOM's Force Judge Advocate's office, said she saves money on gas and keeps mileage down on her car. "It takes a little longer to get to work, but I think it's worth it," said Fox.

Of course TIP has a few strings attached, such as:

- Riders must travel 11 out of 21 consecutive workdays to receive their checks.
- Reimbursement checks are paid quarterly, totaling \$345.
- And there can be no more than a \$250 "total" surplus in the account (which is set up by the leaser to handle expenses).

"We put 87 miles a day on the van," said Barnett. "Each of us has saved so much with TIP. From the leasing costs, which include maintenance and insurance, to gasoline and wear and tear on our personal vehicles. Now our personal vehicles are only used for personal trips and nothing else."

Her present costs include \$237 per month to lease the van, an 11 cent per mile fee, plus the cost of gas.

Barnett gets on the road at 5:50 a.m. from Moyock, NC, and picks up her last passenger in the Greenbrier area, arriving at work by 7 a.m. She completes a daily log, which includes

mileage, time on the road, gas receipts and a record of passengers. The group departs work at around 3:30 p.m. and Barnett pulls up to her front door at around 4:30 p.m., again repeating the daily log entries.

The pick-up and drop-off points are similar to that of a school bus -- being within walking distance of one's home. And should the primary driver be off, there are alternates. "Now, if for any reason -- be it an emergency or someone having to stay late -- there are alternate means of transportation available," explained Barnett.

HRT has the "Guaranteed Ride" program to prevent anyone from being stranded. Up to four times per month, participants can call for a ride for a charge of \$3. And, if this is not enough of an incentive to use TIP, all participants can earn gift cards through NU Ride and affiliated businesses.

"In the end, it's all about commitment to the program," concluded Barnett. "You only get out of it what you put into it -- in short, maximum participation in TIP earns maximum rewards in savings."

Different variations of TIP are available in all 50 states, Guam, Puerto Rico and the U.S. Virgin Islands. The program began as part of the Transportation Equity Act of the 21st Century. To sign up, contact a local base representative or go online at www.fmo.navy.mil/services/tip/tip.htm to complete and submit a TIP application form. The enrollment process takes about one month.

SPAWAR'S Pacific Systems Center Provides Tools

Story by MC2(SW) Christopher J. Koons
Photo Illustration by MC2(SW/AW) Justin L. Ailes

In today's military, defeating the enemies of freedom requires capabilities that go beyond the conventional means used to wage wars in the past. To this end, Space and Naval Warfare Systems Center (SSC) Pacific is helping to provide the tools for future victories.

Following the 2005 Base Realignment and Closure Commission's recommendations, the organization formerly known as the Navy Center for Tactical Systems Interoperability (NCTSI) was recently made a part of SSC Pacific. Headquartered in San Diego, the SSC Pacific's mission is to provide Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) capabilities to all U.S. war fighters. This includes charge of areas such as ocean surveillance systems, navigation support, and the integration of space communications with surveillance.

"We provide comprehensive end-to-end level tactical data link analysis testing for link capable surface ships and aircraft, ensuring that installed data link systems properly interoperate with host combat systems," said LT Chris Schreiner, officer-in-charge for SSC Pacific's Detachment Group Two in Norfolk, VA.

In addition to its headquarters in San Diego, SSC

Pacific has detachments all over the world that support different aspects of the war fighting effort. The goal of these detachments is to provide fleet support services which assure operational interoperability of tactical data systems through software validation and hardware integration services.

Detachment Four, based in Naples, Italy, helps to provide a comprehensive maritime theater picture of the U.S. 6th Fleet area of operations to joint tacticians at the U.S. European Command and operators at combatant command centers.

It is a vital player in various exercises and ongoing combat operations, including Enduring Freedom, Northern Watch, Joint Project Optic Windmill, Juniper Cobra, Destined Glory, Clean Hunter, and Dynamic Mix. Detachment Four also provides the Mobile Universal Link Translator System (MULTS) in numerous European Theater exercises to forward and translate data links.

Currently, Detachment Four is transitioning to a Joint Interface Control Officer Support System (JSS), in which link operators and technicians will be able to rapidly deploy to any area within the European Theater to support operations and/or exercises.

Detachment Five, based in Yokosuka, Japan, maintains link and radio systems to ships in Yokosuka and Sasebo, and offers services to the air wing in Atsugi. Some of their gear includes various Ultra High Frequency (UHF) radios, satellite radios for satellite communications, and computer systems. The command uses a Multi-Link Systems Testing 3 (MLST-3) computer to test ships' data links.

"Testing provides commanding officers and strike group commanders assurance that their combat systems operate according to technical specifications, and meet basic tactical level information exchange requirements," said Schreiner. "These events also enable detailed testing of interoperability between the host combat system and installed data link equipment, and exercising basic C4ISR core competencies at the deck plate level."

SSC Pacific also conducts research in fields such as atmospheric physics, electro-optics, underwater acoustics, engineering psychology, signal propagation and processing, artificial intelligence, material sciences, microelectronics, chemical oceanography, and environmental and biological sciences.

PENSACOLA SAILOR SHARES TIPS ON DEFCON 16 'CAPTURE THE FLAG'

Story by CTN1 Theresa M. Verity, NIOC Pensacola
Graphic Illustration by MC2(SW/AW) Justin L. Ailes

Each year thousands of hackers and computer security professionals descend on Las Vegas and hit DEFCON 16 for a weekend of learning and mischief. DEFCON 16 has been around for 16 years, hence the name, and has been one of the annual “must-attend” events for many in the hacking and computer security fields. And, for a certain subset of those people, the main event at DEFCON 16 is ‘Capture the Flag’ or CtF.

The CtF at DEFCON 16 is pretty much as close as many security professionals will get to a real blood sport. In it, participant teams are set against other teams who have been selected for their skills, ingenuity, cunning and stamina. All are vying for the top position in a 36-hour long marathon comprised of digitally attacking others and defending themselves from all angles.

Many of the teams represent various schools, hacker groups or government entities - each are constituted by members who themselves are at the top of their game and have been training all year (or more) for the chance to compete.

So, why is it that anyone would want to participate in something so demanding? Something that would require months, if not years, of study and dedication. For many, it was because it’s something they have been wanting to try their hand at since first attending DEFCON a few years back. The hardest part was finding some like-minded individuals who also wanted to take a crack at it.

Our team, I@stplace, consisting

of myself and four civilians was completely new to the whole competition aspect of the CtF. In previous years, observers had seen elite teams bent over their computers in rapt attention - just waiting for the right moment to spring their traps, whisk valuable data away from another team or defend against an assault from one or more opposing teams. So we knew that the competition would be difficult. All we wanted was our chance at the table. But before we could get in on the real deal we had to survive the qualification round.

Each year, the crew that runs the DEFCON has a qualification round that helps to weed out the slower swimmers from the sharks. Only the top seven teams are invited to play in the real event at DEFCON.

This year more than 300 teams signed up for the 2-day long qualification round. It started at 10 p.m. on May 30 and ended at 10 p.m. on June 1.

In the end, we got to 61st place. Not too shabby for a bunch of first-timers, but it’s something we will shoot to surpass next year.

Amid the mental and technical challenges we faced in the qualification round, we learned a few things...

-- Be the thrifty hacker: If you have just one machine to play with, run virtual machines with a small variety of operating systems and tools on them. This suggestion is per member and is not meant to be the one set up for the entire team.

-- Thrifty usage for those who have more: If you have two to four computers, make sure one

runs FreeBSD 6.3 or newer; run a good distribution of Linux (load Perl, Python, C and Assembler support) and use the last machine(s) to crunch data culled by the other two. For your Linux distro(s) I would suggest BackTrack 3 and/or Helix 1.9a for probes, analysis and forensics; and/or Ubuntu / Mint / Knoppix for the coding helper machines (more hardcore coders might prefer Gentoo / Debian / Slackware).

These suggestions represent what two or more members of your team may have available. The more the merrier - checking over one another’s findings, or sharing out tasks will help!

-- Team Communications: Have two (or more) ways to contact team members and pass data. For coordination, we used a free VoIP application (TeamSpeak) on one of our own servers and a private channel on a public IRC server. We passed data between one another, during analysis, via email and my website. If one channel for comms went down we had several backups... Note that 95% of our comms turned out to be over IRC.

-- Sandboxes / Sharing Info: Have individual, as well as team, sandboxes to collaborate in. Some of your “aha” moments may occur when one person is working on something and another is inspired to try something new, based on what she or he saw from a teammate. Said sandbox can be a secondary channel in IRC (away from the normal chatter), an IM or some other method where real to near-real time display of the data and commentary can be performed.

-- Don’t Be a Jerk: Don’t try to

socially engineer or “brute force” the qualification judges - people can get banned from the qualification contest for trying various shenanigans. Trust that the judges are smarter than the average bear and have been around the block a few times.

-- Know Thy Teammate: Know what your team members are good at. Average team members will need to have an intermediate understanding of what networking is all about; know about coding and be comfortable with various admin / security tools. Above-average members may have specialized skills and would be best put in charge of specific tasks that align to their strengths. Knowing who is good at what can minimize time spent spinning wheels and will help the team win points, theoretically, faster than less organized teams. Keep in mind that data can still swap between members as the task progresses, based on the skill set requirement changing as the datasets evolve into the answer you will need to win the task.

-- All Work & No Play Makes Jack a Dull Boy: Schedule your times for working together on tasks - or at least for touching base. Our team was too small and spread-out to work 24 hours every day, but we were on for a sizable chunk of the competition. And, for those long stretches, remember to throw some fun time in with the work - Halo / Rock Band / Mario Kart mini-competitions should be encouraged in moderation. The competitive breaks help with breaking tensions when a task seems unbeatable and the play time helps bond the team together. 



HOWARD O. LORENZEN

FATHER OF ELECTRONIC WARFARE

From Naval Research
Laboratory Public Affairs

Photo Illustration by
MC2(SW/AW) Justin L. Ailes

In the early 1940s, two decades before electronic warfare emerged as an ethereal form of combat with no obvious subordination to land, naval, or air warfare - a military science that mattered equally to Soldiers, Marines, Sailors, and Airmen - Howard O. Lorenzen thought of it as radio countermeasures.

As WWII progressed, Lorenzen gradually expanded radio countermeasures against enemy systems, most notably, the air-launched guided bomb. He developed a system installed on two destroyer escorts to intercept, record magnetically on steel wire, and analyze German aircraft radio signals that controlled the glide bombs built to sink allied warships in the Mediterranean Sea.

His knowledge helped NRL's Special Projects Section develop intercept-jammers that defeated the Henschel 293 system, and the unwitting Luftwaffe engineers concluded that RF energy was too fickle or pilots too inept to make the intricate control mechanism work as designed.

After World War II, during his years of investigating captured German and Japanese electronic equipment, Lorenzen began to think of it as electronic countermeasures (ECM), a discipline that detected and either interfered with or exploited for intelligence purposes any electromagnetic energy that an enemy might transmit for military purposes.

During the Korean War, when

some of his colleagues started thinking of their art as electronics intelligence (ELINT), he deemed their view too narrow and refused to adopt the term to describe his activities. He even stuck with the concept of ECM when he led the way in the late 1950s to its first successful application in outer space - an ECM satellite.

When Russian Sputniks and Lunas, Army Explorers, and Navy Vanguards began orbiting the Earth a dozen or so times daily, Lorenzen was already so renowned in ECM that the Director of Naval Intelligence forbade him from attending the launch of GRAB 1 or follow-on missions, for fear his presence would give away their ELINT mission.

While their work progressed, Lorenzen led a parallel campaign to get the project approved and fully funded. Using large briefing boards mounted on a pedestal, Lorenzen sold Project Tattletale, later re-named "Project Canes," to Capitol Hill and the Pentagon. Congressmen were delighted to be briefed on a project "not costing tens of millions."

President Eisenhower approved Project Canes and just four days after a CIA high-altitude U-2 reconnaissance aircraft was brought down over the Soviet Union (by an SA-2 Guideline missile, according to Soviet claims), the president approved launch of the first Canes-controlled satellite.

Known operationally as GRAB (Galactic Radiation and Background), the ELINT satellite was launched successfully from Cape Canaveral, FL, and tested by NRL in Hawaii. Lorenzen was one of five scientists to first to hear the medley of radar signals detectable by a wide-open receiver in outer space.

In 1965, when the Cold War got hot in Southeast Asia and U.S. aviators were first brought down over North Vietnam by guideline missiles that had to be thwarted, Lorenzen fired up his project engineers by requiring them to think from now on in terms of electronic warfare. EW remained his central focus thereafter, even when the Vietnam War wound down and he was called upon to lead space engineering for the Navy.

Lorenzen became NRL's first Superintendent of Electronic Warfare when his branch was upgraded to division status in September 1966. He typically managed upwards of a hundred scientists, engineers, and technicians, who were kept busy pushing the state of the art, sharing their technology and ideas with cleared firms, and harvesting any useful components produced by industry.

Their achievements, under his leadership, spanned the entire breadth of EW. During the late 1960s, his highest priority was the development of equipment for naval aircraft, particularly for defense against guided missiles, which he considered the laboratory's most vital support to naval aviators at war in Vietnam.

When the battleship USS New Jersey was refitted in 1968, to shell enemy supply routes inland, Lorenzen's EW Division equipped her with every device in their arsenal that could foil attack from North Vietnamese MIGs, missiles, or fast attack boats.

In September 1970, Deputy Defense Secretary David Packard aligned space systems acquisition responsibilities with those for weapon systems acquisition and authorized the military departments to pursue departmental need for space systems,

including "unique surveillance (i.e., ocean or battlefield) needs."

The Navy established a Navy Space Project Office (PM-16) in the Naval Material Command as a successor to NAVAIR's Astronautics Division (Air 538). NRL had been Air 538's prime space engineering asset. SOLRAD was conceived in the late 1950's as an improved means of studying the sun's effects on the earth. It supported NASA's Apollo Program by monitoring solar radiation and predicting sun activity that could interfere with communications during moon missions.

TIMATION (forerunner of GPS) provided time transfer and navigation data, via satellite, to mobile platforms. SURCAL calibrated the Navy Space Surveillance (NAVSPASUR) CW fence across and above the southern United States. CALSPHERE calibrated the Navy's Bullseye HFDF system. A classified program supported national capabilities, as well as Navy space systems for communications, ocean surveillance, and global positioning. At NRL, the satellite platform now seemed to eclipse the electronic warfare mission and would become the basis for a new, first-echelon Space Science and Technology area.

NRL turned to Lorenzen to repeat in space what he had accomplished in EW: design total systems for military operational support. In February 1971, Lorenzen was appointed Superintendent of Space Systems and organized a new division that consolidated moon relay SIGINT and most of NRL's on-going space projects, including fabrication of lightweight satellite platforms and development of payload electronics and ground readout systems for

communications, ELINT, time & navigation, ocean surveillance, and scientific experiments.

Within two years, NRL's major space R&D projects were destined for operational systems development and management by Navy or Air Force systems commands as joint or national programs. (The Space Systems Division underwent several transformations and expansions in the next three decades and is now the Naval Center for Space Technology.)

His missions accomplished, Lorenzen retired in June 1973 after 33 years of public service to the Navy and the Nation. When he was written up for an award, someone went through his personnel record and figured that he had spent nearly 10 percent of his career since WWII abroad which included 78 trips to 17 different foreign countries.

He and wife Etta Mae moved to Bellevue, WA, in 1976, however, physical infirmities prevented him from participating in NRL's Diamond Jubilee in June 1998 and the initial public disclosure of Project GRAB, but he enjoyed video tapes of those proceedings attended by GRAB alumni.

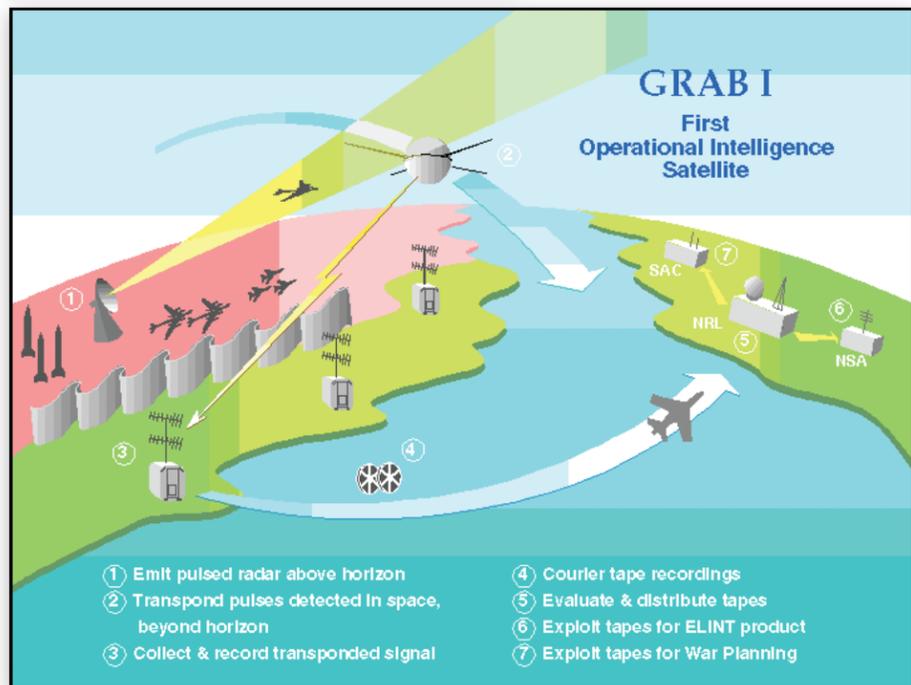
He relived his career by reading between the lines of histories of WW II, Korea, Vietnam, and the Cold War. Articles and books he enjoyed most were ones written by his former colleagues, electronic warriors on both sides of the Atlantic Ocean.

He never wrote a book himself. He had a mania about security, and he was so renowned among those who lived the early history of EW that he felt no need to stake any claims. At the peak of his intellectual power and capabilities Lorenzen suffered increasingly from an adulthood affliction of Meniere's disease, particularly vertigo and on Feb. 23, 2000, he passed away in Redmond, WA.

There are dozens of electronic warfare and space systems he pushed into operational use, many of them still classified that have evolved and will continue to support the nation in the 21st century.



(Clockwise from left) A newspaper provides detailed photos and artwork of Lorenzen's SOLARD I/GRAB satellites. Lorenzen (Front row, left) joins others for a photo opportunity outside a radio receiving hut. (Below) An artist's conception of America's first Operational Intelligence Satellite's flight around the earth.

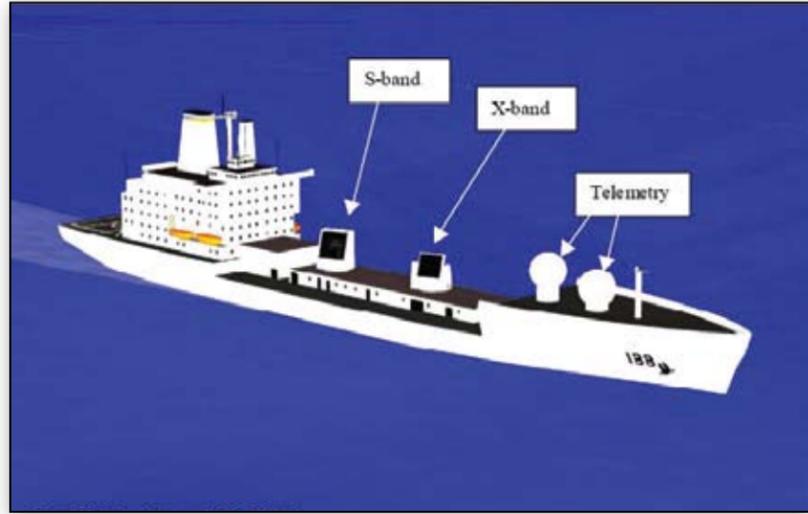


Navy honors 'Father of Electronic Warfare'

From Office of the Assistant Secretary of Defense (Public Affairs)

The Navy announced recently that the name of its next missile range instrumentation ship will be USNS Howard O. Lorenzen. Designated T-AGM 25, the ship will honor the late Naval Research Laboratory (NRL) electrical engineer who was instrumental in the creation of our nation's electronic intelligence capabilities.

Considered by many to be the 'Father of Electronic Warfare,' Lorenzen's accomplishments include developments in radar, electronic countermeasures systems, and intelligence satellite designs.



An artist's rendition of USNS HOWARD O LORENZEN (T-AGM 25).

Lorenzen led the Galactic Radiation and Background (GRAB) program, the earliest successful U.S. reconnaissance satellite program and the first electronic intelligence satellite. The NRL began the classified GRAB program shortly after the U-2 incident of 1960 to obtain information on Soviet air defense radars that could not be observed by U.S. military aircraft.

USNS Howard O. Lorenzen will be 12,575 tons, 534 feet in length, and have a beam of 89 feet. Manned by a combined crew of 88 sailors and civilian mariners, the ship will host embarked military and civilian technicians from other U.S. government agencies. The construction contract for T-AGM 25 was awarded to VT Halter

Marine Inc., in Pascagoula, MS. Missile range instrumentation ships provide platforms for monitoring missile launches and collecting data that can be used to improve missile efficiency and accuracy. Like the Navy's two current missile range instrumentation ships – USNS Observation Island and USNS Invincible – T-AGM 25 will be owned and operated by Military Sealift Command and conduct missions sponsored by the Air Force.



(Above) USNS INVINCIBLE (T-AGM 24) is a smaller version of the Military Sealift Command's Missile Range Instrumentation ships. (Right) USNS OBSERVATION ISLAND (T-AGM 23) represents the typical special mission ships.





CARS SHORTENS ORIGINAL TIMELINE

Additional Staff & Infrastructure Reduction puts CNO Task Force ahead of schedule

Story by George D. Bieber

Photo Illustration by MC2(SW/AW) Justin L. Ailes

There's an age old adage: "There's no limit to what you can accomplish if you can get a team to do the work together," and early results from the Cyber Asset Reduction and Security (CARS) Task Force are proof of this concept.

Since inception in October 2006, the CARS Task Force has keenly kept its sites on:

- Improving the Navy's enterprise security posture
- Reducing the Navy's Information Technology (IT) footprint
- Enforcing enterprise behavior and preparing the way for the Next Generation Enterprise Network (NGEN) and Naval Network Environment (NNE).

Aggressive efforts with the Fleet, Systems Command, Personnel and Training, Facilities, Higher Education and all other major Navy commands have made significant progress in attaining the CNO's goals for CARS. In the last year, the CNO has accelerated the mission completion timeline from September 2011 to September 2010, and raised the bar for total network reduction from 51 percent to 90 percent!

Enhancing the Navy's Information Security Posture

According to Neal Miller, CARS director, CARS is focused on improving the Navy's enterprise security posture. "We are eliminating legacy networks ashore by moving their capabilities into NMCI or ONE-NET," he said. "We're also taking steps to ensure that all networks allowed to remain outside these networks are just as secure and are efficiently managed following common command and

control structures.

Miller added that his team is working to find financial efficiencies and help prepare for NGEN. "This could not be done without the positive support of our mission partners – the NMCI and ONE-NET program leads and the Navy's Echelon II Command Information Officers (CIOs)," Miller said.

One of the first orders of business for CARS was to develop written, repeatable processes; including first-ever Navy-wide criteria for adjudicating whether a shore-based system or application should be allowed to operate outside Navy's

"Through the deliberate CARS process, all Excepted Networks will be secured behind an approved, centrally-managed Information Assurance / Computer Network Defense (IA/CND) suite," added Charlie Kiriakou, CARS deputy director.

designated enterprise networks (Navy Marine Corps Intranet, ONE-NET, or Integrated Shipboard Network Systems (IT-21)). The CARS team has followed these processes, making adjustments and refinements along the way. Together with mission partners, CARS is operating as a well-oiled machine to keep this complex mission on track.

To paint a picture of the scope of this effort, when CARS was initiated, the Navy had nearly 1200 individual networks (NMCI, ONE-NET, and Afloat Networks make up just 12 of these). By the end of September 2008, that number had been reduced to just over 500, including approximately 150 Excepted

Networks, which leaves 350 networks to terminate by September 2010.

By the summer of 2008, the systematic CARS case development process has identified secure enterprise solutions for common applications for more than 230 systems to be migrated into NMCI and ONE-NET. These cases were far enough along in the planning process that actual migration timelines had been established. CARS and Echelon II CIO representatives then teamed up to create an aggregate network termination schedule for 200 networks during Fiscal Year 2009.

CARS will keep the press on to stay on this network shutdown glide slope, which will leave approximately 150 networks to be terminated before the assigned mission completion date of September 2010. The majority of these cases are in the NMCI area of support, and common solutions are being applied overseas to help transition systems into ONE-NET.

It is important to note that approximately half of the Navy's total IT infrastructure is there to provide capabilities that are either not supportable in, or not appropriate to be provided by, an Enterprise Network. Examples include Navy Higher Education networks at the Naval Academy, War College, and Postgraduate School; Research, Development, Test, and Evaluation (RDT&E) networks operated by the Navy's Systems Commands; high speed computing conducted by mainframe computers for Navy oceanographic and meteorological services; and selected tactical and training networks ashore.

"Through the deliberate CARS process, all Excepted Networks will be secured behind an approved, centrally-managed Information

Assurance / Computer Network Defense (IA/CND) suite," added Charlie Kiriakou, CARS deputy director and security chief. "This will ensure that the Navy's entire IT

"This process is not only a positive direction for CARS," said Rob Mawhinney, Navy's Deputy ODAA and deployment lead for C&A, "but for commands throughout the Navy as well."

network infrastructure will have well-understood and consistent security capabilities, whether it is in NMCI, IT-21, ONE-NET or an Excepted network."

Previous CARS investments have accelerated transition to web-based organizational messaging using the Navy Regional Enterprise Messaging System (NREMS); supported accelerated termination of legacy networks overseas (Guam ONE-NET), and consolidated enterprise applications such as FedLog and Standard Procurement System (SPS).

In August 2007, the Certification and Accreditation (C&A) for network operations throughout the Navy streamlined CARS' and other Navy workflow by reducing net cycle time in the C&A process. Rob Mawhinney, Navy's deputy Operational Designated Approval Authority (ODAA) and deployment lead for C&A, believes that the process has improved risk acceptance decisions by the ODAA through higher quality C&A documents.

"This process is not only a positive direction for CARS," said Mawhinney, "but for commands throughout the Navy as well."

Another way to improve quality

and reduce timeline for completing the C&A process is to deploy a software tool to help automate the work flow and development of required C&A documentation. CARS initiated and has funded an acquisition effort by PEO C4I to field such a tool.

If one uses any of the commercial software tools for doing their income taxes each year, it's easy to understand the value and time savings that a similar program can do for the C&A process.

"Classified systems that have not had NMCI seat orders placed are included in the network shutdown list," stated LT Jessie Castillo, deputy director CARS Operations division. "Once a solution is identified and sufficient progress made toward implementation, CARS and the NETWARCOM director of operations may allow re-connection of a legacy network."

In view of the fiscal realities and complexity of the mission, CARS has been aggressively working to balance the need for demonstrating tangible results (infrastructure reductions, security improvements and savings) quickly with the need to define a comprehensive and executable plan to accomplish its mission on or ahead of schedule.

"We will not rush to failure, nor will we allow ourselves to fall into the trap of over-planning and resultant lack of positive action," said Clifford Bussey, CARS Operations officer. "Prudent operational risk must be accepted while adhering to the need to reduce, consolidate, and secure our networks. We also need to track the financial savings when we deliver operating efficiencies to support realignment decisions."

Helping to Set the Stage for

NGEN/NNE

One of the greatest challenges facing Navy's shore IT leaders is to reduce costs for operating and maintaining major business and warfighting computer systems without reducing readiness. Implementing maturing technologies such as server virtualization and consolidating systems into fewer physical hosting locations are key elements of the new Navy Data and Application Hosting Center strategy.

CARS has begun implementation in three locations already – SPAWAR sites in New Orleans and San Diego, and a BUPERS site in Millington, TN. The next steps include build out of backup capability for Millington at Great Lakes, IL and initial exploration of expansion of sites in Patuxent River, MD and Bremerton, WA.

The strategy includes leveraging joint hosting capacity at large DISA computing centers – the first one with major Navy use is in Mechanicsburg, PA. Other locations include Norfolk, VA and overseas locations in Naples, Italy, Yokosuka, Japan, and Bahrain. As these sites are activated, many existing Navy systems will be relocated from their current widely

"We will not rush to failure, nor will we allow ourselves to fall into the trap of over-planning and resultant lack of positive action," said Clifford Bussey, CARS Operations officer.

dispersed sites into one of these consolidated hosting locations.

In addition to reduced total costs and being more environmentally friendly, the primary benefits of



executing this strategy include significant improvements in the Navy's disaster recovery and continuity of operations capabilities, improved ability to defend our key information systems and the data exchanged on them, and an increase in the speed to capability to bring new systems on line securely.

"The overall effort includes seeking most efficient operations as well as identifying appropriate cost-sharing methodology for data centers that host applications owned by more than one Echelon II command," said Kiriakou.

"In parallel with consolidating the data centers, Navy is taking positive steps for phased consolidation of our web portals," he added.

"These services will eventually be provided via Defense Knowledge Online (DKO)."

The effort is starting with migration of the U.S. Fleet Forces Share Point classified and unclassified portals to a DISA computing center in Mechanicsburg, PA. CARS is also implementing consolidation

of the Navy's public-facing web services to a DISA computing center in conjunction with implementation of DoD-level IA Demilitarized Zones (DMZ).

"A Plan of Action and Milestones (POA&M) for purging enterprise service capabilities from networks that have attained initial approval as Excepted Networks will be executed this year," said Bussey. "I'd especially like to recognize Naval Facilities Engineering Command (NAVFAC) and the Naval Education and Training Command (NETC) for timely completion of their POA&Ms, and we are looking forward to

helping them execute them to meet all requirements for final approval."

The CARS area of responsibility is global, so CARS has been working hand-in-hand with the ONE-NET program to facilitate enforcement of that network as the Navy's designated enterprise overseas network. This includes coordination of asset and network discovery for overseas networks not presently in ONE-NET and developing engineering plans to migrate.

"Another area we are supporting is the emerging governance and architecture plans to enforce a consistent approach for network service types to support the Maritime Headquarters with Maritime

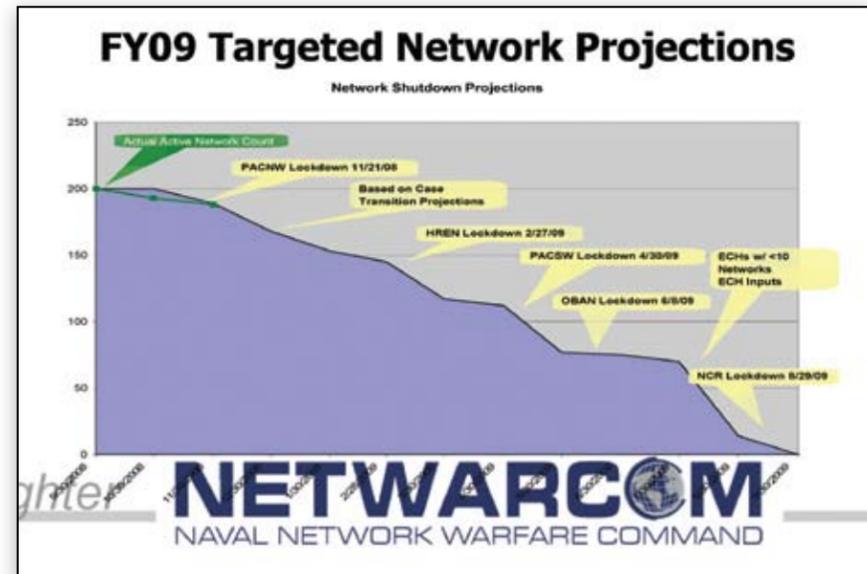
certification paperwork and with completing efforts begun under Cyber Condition Zebra with Metropolitan Area Network purifications and security. However, we have not made as much progress as I'd like in a few areas, including establishing Navy-wide processes and tools for IT asset management."

"Our focus remains on finding a balance between improving security and delivering cost-effective enterprise solutions, but the "new normal" for security posture demanded by Joint Task Force - Global Network Operations (JTF-GNO) has driven us to implement a few course corrections to respond to a very dynamic network operations and defense environment across the DoD," Miller said.

He added that, "Active collaboration with NMCI, ONE-NET, and NGEN programs and all the Navy's Echelon IIs is allowing us to concentrate efforts to meet real-time operational demands to improve our security posture through deploying technologies such as Host-Based

Security System and Data At Rest, while also making real progress to set the stage for NGEN/NNE through initial deployments of IT Asset Management and Data / Application Hosting Centers."

Miller credited CARS' mission partners for the current level of success achieved. "Together, we will accomplish the CNO's goals, improve Navy-wide security posture, identify and leverage efficiencies," he concluded. "We will transform Navy IT from a federated to a mature enterprise, where sound investments in IT deliver definitive warfighting and business value."



Operations Centers," added Castillo. Additionally, common themes among the approved Excepted Networks will be used to ensure full awareness of the potential scope of services required to be provided under the Navy's Next Generation Enterprise Network (NGEN)," he continued.

"Overall, CARS is on schedule," Miller said. "We have a much better understanding of the detailed scope of networks, applications and systems that will be needed to transition to NGEN, and we are ahead of the game on network terminations. We've made great progress with reducing work load for completing security

Look who's talking!

Story & photos by MC1 David M. Votroubek, NOSC Everett, WA

KABUL, Afghanistan - Leaders at the Combined Security Transition Command-Afghanistan are not just talking about helping the Ministry of Interior with their communications - they are doing something about it. The MoI recently unveiled the new Network Operations Center at the headquarters in Kabul.

Afghan National Police Brig. Gen. Sayed Hashemi, MoI's director of Information Communications and Technology, kicked-off the opening ceremony and, U.S. Air Force Col. Chris Cotts, communications director of the CSTA-A CJ6, spoke briefly to dedicate the new center.

The facility modernizes the MoI's infrastructure and allows the organization to communicate much faster and more securely. In the past, one page of information would

take more than 30 minutes to send in code by radio, but it can now go to multiple destinations in seconds via e-mail. "The center brings the MoI 'Enterprise' Network to life ... it is the heart of the entire system," said U.S. Marine Corps Capt. Tim Watkins, project manager.

The NOC provides Enterprise Network services like electronic mail, telephone service through "voice over Internet protocol," and video teleconferencing capability between the National Police Coordination Center, six joint regional coordination centers, 12 Kabul headquarters buildings and 39 provincial command centers, as well as more than 200 other locations such as medical facilities and fire stations.

Another important function of the NOC is that it protects MoI computers against viruses and provides a platform from which network technicians can defend against a cyber-attack.

According to Watkins, constructing this center in a country that lacks security, stable power and any type of inherent long haul infrastructure (fiber or copper) - while fielding commercial off the shelf equipment - was difficult but worthwhile. "(It was) a unique challenge that I have greatly enjoyed," he said.

Over the next few years, this network will expand to provide services to more than 600 locations and 5,000 users. Eventually the MoI will have a robust network that can operate without private contractor support.

"The new facility is the foundation for all of the MoI's future computer network capabilities," said Cotts.



(Above, right to left) BGen. Sayed Ahmad Nasir Hashimi, director of Information Communication technology for the Ministry of Information, speaks to U.S. Air Force Col. Christopher Cotts to demonstrate a new voice over internet protocol system. (Right) Communications personnel and contractors wait in the background to open the new network operations center at MoI headquarters.



THE EVOLUTION OF NAVAL NETWORKS



What NMCI taught the DoN about building NGEN

By Eddie Riley, NMCI/NGEN PAO

In the span of nearly a decade, the Navy Marine Corps Intranet (NMCI) has transformed the Department of Navy's IT networks from a loose collection of independent networks built to suit the needs of individual commands into a single, command and control system enabler with a focus on information assurance. During that time, Navy and Marine Corps IT professionals have learned a lot about the processes, communication and coordination required to build the largest corporate network in the world.

Similar to the evolution of other naval combat support functions like training and logistics, the DoN will use those early IT experiences to help ensure that NMCI's successor, the Next Generation Enterprise Network (NGEN), will, overtime, be a more reliable, secure and responsive network," said RDML David G. Simpson, director of the NGEN System Program Office (SPO).

The NGEN SPO, a new directorate established by the Secretary of the Navy, Chief of Naval Operations (CNO), and Commandant of the Marine Corps (CMC), has end-to-end responsibility and accountability for the NGEN initiative. The existing NGEN program now fits into the Acquisition Division of the SPO, along with NMCI and the OCONUS Navy Enterprise Network (ONE-NET). The other two SPO divisions are Operations, and Programming, Planning and Policy.

"NMCI was revolutionary for the Department of Defense and much of the federal government," said Simpson. "We merged together hundreds of disparate computing systems across the Navy and Marine Corps into a secure, comprehensive, end-to-end information network."

Simpson added that additional preparation in understanding the nature of DoN IT networks and the expectations of users in the acquisition phases of NMCI could have made the transition a smoother process. The DoN had many IT policies and procedures that were hard to implement across disparate networks, let alone enforce.

"We have almost a decade of experience of running NMCI to build upon," the admiral said. "We know what works and what doesn't."

The current NMCI contract ends on Sept. 30, 2010. The transition planning is committed to ensuring continuity of services and a smooth changeover for users.

Learning from NMCI and improving on its development and acquisition processes is at the heart of much of the current work of the NGEN initiative – from creating the network's system requirements to planning for the transition. Part of the learning involves being realistic, several Naval leaders have said.

"For something this size, we are not flipping a switch on Oct. 1, 2010. It's not possible," said CAPT Timothy A. Holland, program manager for NGEN. "So we are doing all the design, management and planning we can, to ensure that on Oct. 1 everyone who's connected today remains connected."

The DoN has a lot riding on the success of NGEN. One major factor is that the network will serve as the foundation for the DoN's Naval Networking Environment (NNE).

The NNE is the DoN's future vision of a net-centric enterprise environment that will connect both afloat and ashore networks. At its future state, the NNE will include, along with NGEN:

- the Navy's shipboard environment, CANES (Consolidated Afloat Network Enterprise Services), which replaces IT-21;
- Tactical Switching, which connects the Navy's ashore and afloat networks;
- the Marine Corps' CONUS and OCONUS operations through MCEITS (Marine Corps Enterprise IT

LESSONS LEARNED FROM NMCI

From academic papers to published news accounts, the early challenges of NMCI have been well documented. For the NGEN program, they serve as reminders of the importance of early acquisition work. Among the lessons learned from NMCI:

- **Do the Diligence:** The streamlined acquisition process used in 2000 for NMCI left many unknowns about the state of DoN IT networks that weren't fully understood until after the contract was awarded, including the number of legacy applications running on the various DoN networks.

As part of the NGEN acquisition process, the NGEN program office has been working with current contractor, EDS, an HP company of Plano, TX, to complete an inventory of the network infrastructure as well as intellectual property and third-party software used on the NMCI network. The effort will give the NGEN development team a clear baseline from which to start.

- **Involve the users:** Some end users were surprised by the number of the changes in the new network, including the enhanced security that blocked access to common but unsecured Internet sites like web-mail services.

The NGEN requirements document approved early this year resulted from more than a year of discussion and debate among a team that included representatives from across the DoN IT community. The process gave end users a chance to have a say in the NGEN's design. The final system design specifications for NGEN at its various iterations will be informed by the requirements document.

- **Coordinate, Coordinate, Coordinate:** The DoN didn't name a central director for NMCI until 2002 leaving the NMCI contractor to work out deployment plans separately with individual commands.

The Department of the Navy has approved a new governance structure for the NGEN initiative, aimed at ensuring an enterprise-wide approach for seamless oversight, responsibility and accountability for the new network.

The NGEN System Program Office (SPO) will be comprised of membership from all of the DoN NGEN governance areas: requirements, resources, policy, operations, fleet readiness support and acquisition.

Created by the Secretary of the Navy, the Chief of Naval Operations, and the Commandant of the Marine Corps, the SPO is led by interim director RDML David G. Simpson, director of Navy Networks, OPNAV N6. The SPO is expected to be operational by the end of the year and will replace the existing NGEN program office which has been in place since 2007.

"The SPO reflects the Department of the Navy's commitment to the success of the NGEN," said Simpson.

Transition planning has already begun in the NGEN program office, including a review of the existing role of Customer Technical Representatives (CTRs) to determine the best for the transition to NGEN, and exploring the use of fleet integration and transition teams to help manage the roll-out. Senior naval leaders, including the DoN Information Committee, have already begun mapping out the manpower needs for a new network that will have more government oversight.

Services) and other components of the MCEN (Marine Corps Enterprise Network) and ONE-NET;

- a limited number of excepted networks such as the RDT&E (Research, Development, Testing & Evaluation) systems.

"NGEN will help determine how the NNE networks connect together," said Simpson. "The work we are doing now will define what a truly integrated naval network will look like."

Getting Ready for the Future

During a recent meeting in NGEN offices in Arlington, VA, Holland led his staff through a brain storming exercise. It had been more than a year since the team, along with counterparts from across the DoN including the Marines, began planning the design, acquisition and deployment of the follow-on to NMCI. The goal of the exercise was to determine what parts were still missing from the "NGEN solution."

The result was an alphabet-soup inventory of the documents that will guide each step of the NGEN initiative. Among them were: the SDS, System Design Specification, and accompanying SSR, Service Specification Review; NETOP CONOPS, the Network Operations Concept of

Operations; and the ILS, the Integrated Logistic Support Plan.

Such documents are typical of similar acquisition projects, but for NGEN, they represent a more methodical approach to system development.

"Part of what will make NGEN a success is all the work that is going on now," said Holland, who was named to lead the acquisition effort in 2007, reporting from the Fleet Readiness Centers. "It's the planning that makes clear what NGEN will and won't be, how it will be operated and governed, and how it will be deployed across the DoN."

Earlier this year, the CNO and the CMC, approved the

Many commands sent representatives to support the various phases of the requirements development process or to provide input directly to the requirements generation team.

NGEN Requirements document that provides the detailed performance attributes and key performance parameters for the new network.

Many stakeholders were involved in the requirements gathering effort, including the DoN Chief Information

Office, the office of the Deputy Chief of Naval Operations for Communication Networks (OPNAV N6), and Marine Corps HQ Command, Control, Communications and Computers (C4), with executive support from the Center for Naval Analysis (CNA).

CNA spent close to a year, beginning in 2006, visiting Navy and Marine Corps commands, interviewing commanders and users, and collecting concerns with current networks and requirements for future networks. Many commands sent representatives to support the various phases of the requirements development process or to provide input directly to the requirements generation team.

The commands that operate naval networks, Naval Network Warfare Command (NETWARCOM) and Marine Corps Network Operations and Security Command (MCNOSC), also were key players in the process from start to finish and led the effort to address operational and security issues. Space and Naval Warfare Systems Command (SPAWAR), PEO EIS, PM NMCI and PM NGEN supported the effort with acquisition, engineering and program management expertise.

The approval of the requirements marked a key milestone in NGEN development and represents a clear sign that the DoN is paying close attention to lessons learned from NMCI.

"The Requirements document provides the guidance for every other part of NGEN's development," Holland said, "from the system design specifications to the acquisition strategy that determines how the DoN would like to purchase NGEN."

Industry Interaction and Smooth Transition Key to NGEN Success

While NGEN program office is still finalizing its acquisition strategy for NGEN, work has already begun on involving industry in the DoN's acquisition process and planning for the transition from NGEN to NMCI.

During a recent industry day in Washington, D.C., senior Navy and Marine Corps leaders outlined their objectives for the Next Generation Enterprise Network (NGEN) and the segmentation strategy that could define how the DoN builds the new network.

Before an audience of more than 300 industry representatives, senior Naval leadership shared a theoretical approach to the segmentation of services – groupings of network functions that could be operated by the DoN or provided through outside vendors. The intent was to give industry insight into NGEN's development before the formal request for proposal is released.

It also reflects the continuing input that the DoN has sought from the IT industry.

Last year, the DoN issued three requests for information – one to address technology innovations, a second to address NGEN acquisitions issues, and a third to address C2 network capabilities. Segmentation of services was a best practice that several industry representatives said the DoN should incorporate into NGEN development.

An additional Request for Information, issued on Sept.

10, asked industry to submit white papers or prepare presentations on the possible segmentation approach. Additional industry interactions may also be held in conjunction with the release of any future request for proposal(s) (RFP).

Transition planning is also underway. Current activities include documenting the current network's infrastructure, intellectual property, and third-party software used in NMCI. A transition Concept of Operations and NMCI sunset/phase-out plans also are being drafted.

While Simpson can't comment on the specific plans to acquire NGEN, as that the project is in the pre-RFP stage, he is confident that the current planning will ensure that NGEN will meet its key goals of improved adaptability, reliability and security, stronger government oversight and continued support for the warfighter.

"The early years of NMCI were difficult," Simpson said, adding the DoN was just beginning to get a handle on its IT systems. The DoN also had to grapple with the aftermath of the Sept. 11 terrorist attacks which put network security in the forefront of the NMCI's development.

Today, NMCI is the largest corporate Intranet in the world, connecting nearly 700,000 users and 360,000 workstations across more than 3,000 locations from major bases to single workstation storefronts. It was the first network, and remains the only department, to implement the Department of Defense (DoD) requirement for Common Access Cards (CAC) with Cryptographic Log-On, a two-part security process that provides an additional layer of protection for the network.

"NMCI provides the DoN a sound foundation on which to build NGEN," Simpson said. "We have learned a great deal about what it takes to make a system of this size and nature work for our users. All we have to do is build on the foundation and apply what we have learned." ☐

EDITOR'S NOTE: *The Chief of Naval Operations, ADM Gary Roughhead, recently named RADM John W. Goodwin to lead the Department of the Navy's largest, enterprise-wide IT initiative as the new Assistant Chief of Naval Operations for the Next Generation Enterprise Network System Program Office (NGEN SPO).*

As ACNO (NGEN), Goodwin will oversee the DoN's development, acquisition and deployment of NGEN -- the follow-on to the Navy Marine Corps Intranet (NMCI) contract that ends Sept. 30, 2010.

Goodwin will join the NGEN SPO early next year. Interim ACNO (NGEN), RDML David G. Simpson, will lead the SPO until Goodwin arrives. Simpson continues to set the foundation for the office as the NGEN resource sponsor in his assigned position as the director of Navy Networks on the deputy chief of Naval Operations for Communications Networks (OPNAV N6) staff. Marine Corps Col. David M. Hagopian will continue to serve as the deputy director, NGEN SPO.

UNDERSEA COMMUNICATIONS

Real-Time Communications with Surface & Shore Now Possible

Story by Steven A. Davis, SPAWAR Public Affairs
Photo Illustration by MC2(SW/AW) Justin L. Ailes

SAN DIEGO – Novel approaches to undersea communication technology will soon allow strike group commanders to take full advantage of fast-attack and cruise-missile submarine capabilities.

The Communications at Speed and Depth (CSD) program, which is directed by the Program Executive Office for Command, Control, Communications, Computers, and Intelligence (PEO C4I) Submarine Integration Program Office, is the key to the Navy's envisioned undersea communications network. The system will link submerged submarines, unmanned undersea vehicles and undersea sensors. The network will have access to the Global Information Grid, enabling end-to-end connectivity among surface, air, shore, submarines, and other undersea platforms or sensors.

"Communications at Speed and Depth will multiply the effectiveness of submarine platforms in support of Navy, joint, and coalition operations," said CAPT Dean Richter, PMW 770 CSD Augmentation Program Manager. "Carrier and expeditionary strike groups will soon have significantly enhanced protection against undersea threats with the full utilization of the superior weapons and surveillance capabilities of a submerged submarine."

Combining traditional buoyant cable antennas with innovative technology that allows transmission of data through water over sound waves is the key for submarines to send and receive data/messages without having to reduce speed or surface in order to receive messages.

During operational testing in December 2007, the Harry S. Truman

Carrier Strike Group, comprised of eight surface ships and one submarine, successfully used High Frequency Internet Protocol (HFIP) to transmit two-way data between a submerged submarine towing its antenna and the surface ships. HFIP is a software-based program that provides U.S. and coalition forces extended line of sight, high frequency networking capability in support of Maritime Domain Awareness. The two-way connectivity allowed the submarine to be fully integrated into strike group operations and the Navy's networks to share situational awareness, plan collaboratively and execute missions with joint forces.

PEO C4I's Communications Program Office manages the HFIP program and oversees the design, development and integration of the HFIP product for Navy ships, submarines and aircraft. The PEO C4I program offices for Submarine Integration; Networks, Information Assurance and Enterprise Services; and Communications worked collaboratively to develop a system utilizing three primary programs: Buoyant Cable Antenna, HFIP, and Automated Digital Network System. These programs allow submarines to conduct low-bandwidth networking operations with a towed antenna.

The CSD program will provide communications for Los Angeles-, Seawolf-, and Virginia-class attack submarines (SSN), Ohio-class guided missile submarines (SSGN), and provide limited capability for Ohio-class ballistic missile submarines (SSBN). The system will also provide a number of significant options that were previously not available for submarine commanders:

- CSD system employment will enable submarines to remain in a safer posture while awaiting launch orders. Currently, submarines must remain in a more vulnerable position at periscope depth for prolonged periods prior to launching missiles during strike operations.
- CSD will enable submarines to transmit or receive time-sensitive intelligence while maintaining a stealth posture, which will reduce the risk of electronic counter-detection or attack.
- The submarine can be constantly connected with special operations forces and transmit and receive nearly continuous time-sensitive tactical data while remaining undetected. If in contact with an opposition submarine, CSD enables the submarine to communicate with other friendly forces without being detected by the adversary.

"It's vitally important to ensure that the submarine, with its very capable sensors and weapons, is plugged into Sea Power 21's strike group network," Richter said. "Because of this, CSD is the submarine force's number one communications priority."

PEO C4I worked closely with a number of Navy stakeholder organizations to develop CSD, which include PEO Integrated Warfare Systems; PEO Submarines; Space and Naval Warfare Systems Command; Naval Undersea Warfare Center; Office of Naval Research; Commander, Submarine Force; USS Harry S. Truman (CVN 75) Carrier Strike Group, and Submarine Development Squadron TWELVE. 



ODAA

Adapts to Staying Ahead in Cyber Domain

Story by MC3 Adrian White

Photo Illustration by MC2(SW/AW) Justin L. Ailes

At NETWARCOM, Operational Designated Approval Authority (ODAA) is the authority that grants approval to operate a system or network at an acceptable level of risk. To accomplish this, ODAA employs people from a wide variety of Certification and Accreditation (C&A) backgrounds and strives to stay at the leading edge of technology and warfighting capability.

"We have members, who previously served in the Navy, Marines, Air Force, and Army, who are bringing their skills and backgrounds into ODAA. Many gained their experience working as active duty, contractors, or government employees," said Vickie Mims-Harris, ODAA's Circuit Accreditation and Enhanced Compliance Validation Lead. "Most of our education comes from commercial certifications. We cannot fall behind in technology."

As NETWARCOM has evolved in its delivered capabilities, so, too, has the ODAA.

"One of the major changes that we've seen is that the Echelon II's have a point of contact within NETWARCOM ODAA, which allows for consistency in submission review and allows the Echelon II the ability to have a single 'belly-button' with any C&A issues. Someone who is out in the field has a clear path to get to us. They know who to talk to. The collaboration of everyone is the key element that has contributed to the high level of success at ODAA," said Marianne Chalut, ODAA's Legacy and Joint Government Enterprise Security Lead.

"What the alignment of dedicated ODAA reviewers to Echelon II staffs provides is the corporate knowledge of a particular Echelon or Command's needs to accomplish their mission and the nuances that each Echelon II faces. The result is a tailored process geared to work more efficiently within each entity. It enhances customer focus and increases customer satisfaction, especially since we used the voice of the customer to develop the new process. Additionally, it streamlines their process for submitting C&A packages into the system because the Echelons and Commands get to know

both their Certification Authority (CA) reviewers and ODAA reviewers."

Chalut added that these new procedures have greatly increased the efficiency with which ODAA does business.

"Previously, a C&A package was not visible until it was handed off to the CA, which resulted in the package being placed into a hold queue and the priorities being set by the ODAA," she said. "Then it might go into another hold at the ODAA and if the package were ever rejected back to the customer, no one would know the status of the package. Now, when a package comes into collaboration, all of the parties involved will know where the package is simultaneously, which adds to the Echelon II, CA, and ODAA having complete situational awareness of every package in the process, this also reduces confusion over package status, and increases the ability to track issues related to acceptance of risk within the Navy enclaves. That's one of the major changes that you see."

"Development of the new process occurred due to a desire to improve the way the Navy performed Certification and Accreditation, to allow for speed to capability and situational awareness of packages, while understanding the operational risk of the systems, resulting in a 'no surprises' process," explained Shena Moore, NMCI's Government Enterprise Security Lead.

"DITSCAP (DoD Information Technology Security Certification and Accreditation Process) focuses on pre-accreditation, whereas DIACAP (DoD Information Assurance Certification and Accreditation Process) carries the same requirements but added in the programmatic and maintenance pieces, with more emphasis on post-accreditation activities."

As a result of this change, ODAA now accredits packages differently. The new process of collaboration allows this to happen in a much more efficient manner.

"The main difference is that, under DITSCAP, a command would have a system certified and accredited and then it would sit on the shelf for three years," Moore explained. "DIACAP is more of an ongoing process to incorporate daily operations and configuration management into Information Assurance so that the Certification & Accreditation process continues to be

incorporated into their daily work flow."

"In this complex environment, ODAA always rises to whatever challenge it faces," said Chalut.

"The Echelon II's prioritize the C&A packages as they enter into collaboration, where as the ODAA used to set those priorities. When the Echelon II's come in with their packages, they tell Navy CA and ODAA what package they want us to work on," she explained. "They've been empowered to set their own priorities. They submit something via the web and, once the Echelon II adds it to their agenda items for the upcoming collaboration, the entire C&A team evaluates it and gives them feedback."

In spite of their success, ODAA is not about to sit around and rest on their laurels. The Navy requires up-to-date technology to keep the warfighter informed and mobile. "One of the technologies under review is evaluating SME-PED (Secure Mobile Environment ñ Portable Electronic Device). It's a telephone that does NIPR, SIPR, voice and data. Another technology being reviewed is making hotel wireless systems secure for travelers," Chalut explained. "SME-PED is a National Security Agency (NSA) device with plug-in modules that enables SIPR and NIPR applications."

Chalut describes Rich Voter's management style as one of trust in his knowledgeable and professional staff. He provides the guidelines that need to be followed in order to maintain risk management. He allows the ODAA workforce the flexibility to work within those constraints, as long as they are meeting the intent of the process and providing the right level of knowledge to ensure that he can still manage the risks of all the Navy enclaves (ONE-Net, IT-21, NMCI, and Legacy).

In spite of the fact that most of the general public doesn't know about ODAA, the organization has a significant impact on national security.

"We have so much hands-on contact with all aspects of Navy technology that if we don't do things right we can really lead the Navy astray," Chalut explained. "If we weren't here, operations would be compromised, and the Navy's computer systems could be infiltrated. We are engaged on the front line of our nation's network defense." ■



USS McCain trains Royal Australian Navy Instructors

Story & photo by MC2 Byron C. Linder, Fleet PACEN Det. Japan

Sailors of the Operations department aboard guided-missile destroyer USS John S. McCain (DDG 56) participated in training Royal Australian Navy (RAN) Sailors from August 20-29 while the ship was operating off the coast of Australia in celebration of the centennial anniversary of the Great White Fleet.

Three Sailors serving as instructors from the Royal Australian Navy Tactical Electronic Warfare Signal School (RANTEWSS) embarked aboard McCain to learn the basic functions and capabilities of the Ship's Signal Exploitation

Equipment Increment E (SSEE INC E). Deep within McCain's combat information center, in the ship's signal exploitation space (SSES), McCain's training team successfully ran numerous scenarios and instructions which showed the RANTEWSS Sailors how to train other RAN Sailors on the system vital to a ship's cryptologic mission.

CTR2 Stephen Smith of Altamonte Springs, FL, noted the intensity of the focus on interoperability. "It was great working with the Australians and being part of a collaboration like this," he said. "There was a lot of knowledge and experience exchanged."

Smith added the level of access allowed to ensure a successful

collaboration was unprecedented. "For another country to come into this space is exceptional," he continued. "Aside from the Cryptologic Technicians here aboard the McCain, no one goes into SSES. But working with the Australians went beyond just work. We got to see them function as a Navy, and it was an enlightening experience."

USS John S. McCain, commanded by CDR John S. Banigan, is one of seven Arleigh Burke-class guided missile destroyers assigned to Destroyer Squadron (DESRON) 15 and is permanently forward-deployed to Yokosuka, Japan.



(Left to right) CTM1 Arie Beugelsdijk (NIOC Yokosuka Japan) discusses a Ship's Signal Exploitation Equipment Increment E (SSEE INC E) antenna with POCTS Josh Rampant (RANTEWSS) while embarked onboard USS JOHN S MCCAIN (DDG 56) during her participation in the 100th Anniversary Celebration of the Great White Fleet's visit to Australia.



(Clockwise from left) IT2 Jawan Bryant (left) and IT2 Christopher Stewart bring in accessories for PCU George H.W. Bush (CVN 77)'s local area network. (Above) IT1(SW) Michael Ellis brings computer supplies aboard PCU George H.W. Bush (CVN 77).

Computers coming on line aboard America's newest carrier

Story & photos by MCC(SW/AW) Aaron Strickland, PCU Bush Public Affairs

Information Systems Technicians from Pre-Commissioning Unit (PCU) George H.W. Bush (CVN 77) recently completed the initial installation of a massive Local Area Network (LAN) aboard the ship.

Nearly 400 of the 2,700 computers projected to be installed are connected to the network on America's newest aircraft carrier, under construction at Northrop Grumman Newport News Shipyard, according to IT1(SW) Michael Ellis.

"This new network is massive," Ellis said. "We've been working almost around the clock -- until early in the mornings to pull it together."

Twenty people in three divisions of the ship's Combat Systems Department started working on the installation July 30. Before then, PCU Bush had been using a temporary LAN supplied by Navy Supervisors of Shipbuilding, Conversion & Repair, according to ITC(SW/AW) Vernell Horton.

"We were unique in having a temporary network up before the ship was operating," Horton said. "Really, it allowed for an almost seamless transition, and allowed us to have computers long before the ship was ready."

"Everyone needs e-mail and access to Web-based learning," said Combat Systems Information Officer, LT Travis Dawson. "Our job has been to make that possible. We want to ensure that everything runs smoothly and is secure."

According to ITCS(SW) Pamela Joseph, the first two days of the installation were virtually non-stop as preparations began to install two domain controllers, two exchange servers, three file servers and a one gigabyte ethernet connection. The system consists of multiple unclassified and classified networks.

"We were working between a remote warehouse (where the computers were stored before coming aboard ship) and the ship," Joseph said. "We were down for four days, loading computers and permanent switches onboard."

Additionally, during those four days, the installation team had to load every workstation with the Common Personal Computer System Environment (COMPOSE) operating system and all shipboard specific software applications, according to Joseph. "We spent a lot of time taking a few steps forward and a few backward, but we've taken it all in stride," said IT2 Christopher Stewart.

Progress has been steady, according to Ellis. "We have been cloning 70 to 75 computers per day," he added. "We had to install software onto new computers virtually every day."

The Automated Data Processing (ADP) center became a blur of servers, switches, computers, laptops and printers being inventoried onto the ship then rushed out to a LAN outlet, according to Joseph. All of the activity was intended to make the transition as seamless as possible.

"It's been fulfilling to see it come to life," Ellis said. "The many headaches we've seen; it makes you feel fulfilled when it's done."

IT1(SW/AW) Jamad Smalls echoed the feeling of satisfaction with the job being accomplished, but noted that being in a shipyard construction environment has added to the difficulty.

"It's been a challenge, having to navigate through the shipyard and all the hoses and wires they have strung around the ship," he said. "At the end of the day, it's about making our customers happy."

Ellis, who has been aboard since July, 2006, said he has been amazed at the progress of the LAN system.

"I was here when we had two PCs on the ship," Ellis said. "Now we have eight servers. Most ITs won't see something like this in their entire career."

In the end, it allows PCU Bush Sailors access to the data they need to do their jobs and carry out the mission.

"I'm proud to have been a part of the installation," Dawson said. "This is something that everyone uses every day. When I've seen people up and running, it's been very satisfying."

DoD names NCTAMS LANT's DEFY Program #1

From NCTAMS LANT Public Affairs

NCTAMSLANT's Drug Education For Youth (DEFY) program has been selected by the office of the Assistant Secretary of Defense for Health Affairs as the winner of its Community Drug Awareness Award for 2007.

The award was presented to CAPT Lee R. Johnson Jr., NCTAMSLANT commanding officer, and DEFY Program Coordinator, Sharon Shaw at a Pentagon ceremony in October. It recognizes the best drug awareness and outreach program within the Navy including participation in Red Ribbon Week activities and successfully spreading the anti-drug message throughout its community.

Red Ribbon Week originated as a tribute to Special Agent Enrique "Kiki" S. Camarena, a narcotics agent with the Drug Enforcement Administration. Camarena was kidnapped and murdered in 1985 by drug traffickers in Guadalajara, Mexico. His death enraged many Americans in his hometown of Calexico, CA, and they began to wear red ribbons to commemorate his sacrifice. The anti-drug message spread quickly, and in 1988, the National Family Partnership took the Red Ribbon celebration nationwide. Camarena's widow, Geneva, is the president of the Enrique Camarena Educational Foundation. She was one of the guest speakers at this year's ceremony and Johnson felt honored to meet her. Additionally, the award is a tribute to the hard work and leadership that has been displayed by the all-volunteer staff.

"The staff committed themselves to more than 5,000 on and off-duty hours of community service last year,"

Johnson said. "Their accomplishment is due to superior leadership and dedication to educating our young people about healthy, drug-free lifestyles."

DEFY was established at NCTAMSLANT in 2000 with 10 adult volunteers and 20 military or DoD civilian dependent youths between the ages of 9-12. Today, the program has grown to nearly 75 volunteer mentors and guest speakers, and 60 youth participants.

In FY 2007, the DEFY team held a food drive that netted 300 pounds

program continues to inspire all those involved, and, in turn, inspire the participants to succeed."

In addition to the leadership/drug education curriculum, DEFY topics include Self-Management Skills (Solving Conflicts, Goal Setting, and Resistance Skills), general social skills and physical fitness. Youth participants also attended the Colors ceremony at the Norfolk Naval Base every morning, marched, sang, and participated in various physical fitness activities.

Shaw attributes the combination of the classroom curriculum, community involvement and mentoring for the recognition their DEFY has received.

"DEFY is a well-rounded program that has results," she said. "You can see a huge change in both the children's attitudes and their confidence by the end of the program."

She added that she also receives several positive comments from parents about their children's participation in DEFY. "The parents love the program," she said. "They want to bring their children back again the following summer; however, the kids can only go through one time."

DEFY is a year-long, two-phase program that starts with a summer leadership camp,

and continues with monthly activities that build on the lessons learned in the first phase. Upon graduation, the participants are out-placed into other programs that keeps them involved in their community and in activities that promote healthy, drug-free lifestyles.

Shaw said there is also a very important factor in keeping DEFY youth interested. "We make it fun," she said. "While we do maintain structure and have classroom activities, it's also a lot of fun too." ☺☺

of food and raised almost \$400 in donations that were distributed to local food banks.

Shaw said the children see their mentors' pride reflected in their uniforms, volunteer service to their country, moral convictions, and their willingness to selflessly give back. "Providing a tangible source of pride to a child -- someone who will listen to their hopes and fears -- this is the power of a true role model," she added. "These are the reasons that the DEFY



(Left to right) Deputy SECDEF Gordon England; Sharon Shaw, DEFY program coordinator; CAPT Lee Johnson Jr., NCTAMS LANT CO; and Dr. Ward Casscells, Asst. SECDEF Health Affairs pose after receiving the Community Drug Awareness award for 2007.



(Above) A PEA member takes a look overboard on the USS Missouri at the impact site of a Japanese Kamikaze Zero from the attack on Pearl Harbor. (Inset left to right) NIOC Hawaii PEA Sailors receive a detailed description of the elaborate weapons system of the battleship USS Missouri from within her gun turret. Sailors head up the ladder toward the Combat Information Center aboard the USS Missouri.

Academy Challenges NIOC Hawaii Sailors

By LTJG Carrie K. Sanders, NIOC Hawaii Public Affairs

CTII Shauna Hunt from Navy Information Operations Command Hawaii recently reestablished the Personal Excellence Academy, a program that hadn't been active at the command since the late 1990s.

The PEA is a five-day training program held quarterly for a target audience of Sailors E-4 and below. The purpose of the program is to provide valuable training to junior Sailors to better prepare them to step forward into their first leadership roles.

The topics covered during the PEA include naval heritage and core values, physical fitness, financial responsibility, stress management, personnel records and professional conduct.

Students participate in a color guard, conduct morning colors and undergo a uniform inspection. Major events

held during the weeklong experience include an in-depth tour of the USS Missouri Battleship, a mock Captain's Mast and a graduation ceremony headed by the CO and XO.

Hunt pointed out the importance of the PEA, saying, "Of the nearly 60 Sailors who graduated from the PEA this year, and those who were active in the legacy PEA, none have ever been to Captain's Mast."

Hunt has thoroughly enjoyed the entire evolution from the first PEA she conducted last February to what it has become now. She relies on feedback from the previous academies to continuously shape the program to provide the most benefit.

This iteration of the PEA was bittersweet for Hunt. She will be changing duty stations soon and has passed the PEA duties to a new, yet similarly energetic petty officer.

"I will miss the program here at Kunia," said Hunt. "The command and Sailors benefit from it and so do I." ☺☺

NCTAMS PAC Sailors host 19th Annual 'Operation Aloha' dinner

Story & photos by MC1 Michael Hight, U.S. Pacific Fleet Public Affairs

HALEIWA, HI -- Sailors from Naval Computer and Telecommunications Area Master Station, Pacific (NCTAMS PAC) joined volunteers to provide and serve a hot holiday meal to the homeless here on Nov. 27.

The NCTAMS PAC Sailors, along with the Waiialua Community Association and Girl Scouts from Troops 360 and 530, shared the Thanksgiving spirit with others by giving back to the community.

"This is the nineteenth straight year we have hosted Operation Aloha," said CAPT Janet Stewart, commanding officer, NCTAMS PAC. "Everyone at the command looks forward to this event each year."

Operation Aloha is a Thanksgiving Day tradition during which volunteers offer a holiday meal, including entertainment, for Oahu's North Shore community.

Sailors and civilian employees along with their family members dedicated long hours throughout the year to



Sailors from NCTAMS PAC serve a Thanksgiving meal sponsored each year by the Waiialua Community Association and supported by Sailors, their family members and other community groups.



ITSN Lanita Thompson pours gravy for guests during the 19th Annual "Operation Aloha" Thanksgiving dinner.

raise funds and collect canned food items in preparation for the event.

"This year we raised just over \$18,000 and collected 5,000 pounds of non-perishable food items," said LT Ralph Stephens, NCTAMS PAC technical control division officer and this year's coordinator. "We have also received many charitable contributions, including 30 turkeys, from local companies."

Every year, the Waiialua Community Center hosts the Thanksgiving dinner. With the help of children from St. Michael's School and Wahiawa Girl Scouts the simple gymnasium is transformed into a festive hall.

"It's great to see the children willing to help out so openly," said Stephens. "Not only are we making an impact on the lives of those less fortunate, but also the lives of the community's youth."

"This is just one of the many great things our military does throughout the year for the local community," said U.S. Rep. Mazie Hirono. "Residents of all ages open their hearts for each other and we become one big family."

At the end of the day, more than 400 people enjoyed the meal put together by the NCTAMS PAC team.

"In my 26 years in the military, this is by far the most heart-warming experience that I have ever had the pleasure to be a part of," said Stewart.

NIOD Hawaii Sailor joins Presidential flight to NY

From NETWARCOM Public Affairs

CTIC(AW/NAC) Shenequa S. Cox, a linguist at Naval Information Operations Detachment Hawaii, was recently selected as the Navy representative to accompany President George W. Bush on Air Force One to participate in Veterans Day events aboard the USS Intrepid Sea, Air and Space Museum in New York.

Each of the other services also had a representative who accompanied the president on Air Force One and participated in the event.

Cox said the experience was incredible. "The president welcomed us into his airborne office and immediately put us all at ease," she said. "He was extremely down to earth and excited about our shared Texas backgrounds. He spoke candidly about his post-presidential plans and sincerely thanked us all for our voluntary service."

The president gave each of the service members a presidential coin during the flight to New York, after which everyone joined him in "Marine One" (the presidential helicopter) on the flight to USS INTREPID where they landed on the flight deck and attended the re-dedication ceremony.

Bush told the crowd of more than 2,500 veterans and about 500 active duty service members, that he was honored on his last Veterans Day as commander in chief to travel with these men and women who volunteered to serve the nation in a time of war.

"Veterans have inspired troops such as these. Veterans have inspired me," the president said. "I was raised by a veteran. I appreciate the commitment to our country that the veterans have made. I am committed to making sure that today's service members, veterans, and their

families get all the health care and support they need from the federal government for agreeing to serve in a time of danger."

Bush also emphasized that, "our nation is blessed because our liberties have been defended by brave men and women in the past. And we are blessed to have brave men and women defend our liberties today. It is time to say to our veterans, 'We love you, we respect you and we thank you for serving the United

States of America.'" During their flights from Washington to New York and back on Air Force One, Cox and the other military representatives had an opportunity to meet with the

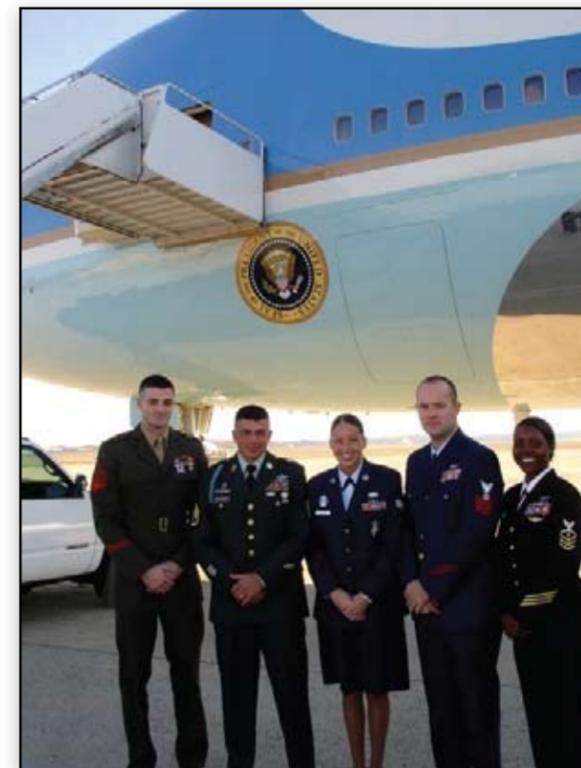
president and Mrs. Bush. According to White House Press Secretary Dana Perino, "The president thought the service members were inspiring and that he enjoyed spending time with them." On their return flight to Andrews Air Force Base, he chatted with the service members over dinner, asked about their families and thanked them again for their service. "We, of course, thanked him for the gracious invitation and made sure he knew we were just honored to be there," Cox added.

Cox said she was grateful for the honor of spending Veteran's Day with the president. "I am truly grateful to have been chosen to represent the Navy team, and I am extremely humbled -- as any number of Sailors definitely deserved this as well," she said. "I only hope I have served and represented you well, because none of this would be possible without all of you."

Cox also gave a special 'thank you' to her parent command, Navy Information Operations Command (NIOC) Hawaii, Navy Information Operations Detachment (NIOD) Kaneohe Bay, the Misawa Flyers, and the entire Naval Network Warfare Command family for their leadership, guidance, and continued support. "This was truly an unforgettable experience," concluded Cox.

The Dallas native has received the Air Medal with "4" strike flights, two Navy/Marine Corps Commendation medals, three Navy/Marine Corp Achievement medals, and medals for her service as part of the Global War on Terrorism and the military campaigns in Afghanistan and Iraq. She was selected as the 2007 Naval Network Warfare Command Sea Sailor of the Year.

EDITOR'S NOTE: Excerpts were taken from previously published articles by John Riley of the Dallas Morning News and Linda D. Kozaryn from the American Forces Press Service.



(Left to right) Marine Sgt. John Badon, Army SSG Michael Noyce-Merino, Air Force SrA Alicia Goetschel, Coast Guard PO1 Christopher Hutto, and Navy CTIC(AW/NAC) Shenequa Cox pose for a group shot before boarding Air Force One at Andrews Air Force Base, Washington, DC. The group accompanied President Bush throughout Veterans Day activities in New York. (Official U.S. Government Photo)



LEGION OF MERIT

CAPT Robert Zellmann, NIOC Suitland



BRONZE STAR MEDAL

CTM3 Matthew O'Bryant, NIOC Maryland



PURPLE HEART

CTM3 Matthew O'Bryant, NIOC Maryland



DEFENSE MERITORIOUS SERVICE MEDAL

LT Brian Broadwell, NIOC Maryland
 CTTTCM Michael Callis, NIOC Colorado
 LCDR Terry Carwile, NIOC Maryland
 CWO3 Phillip Gilbert III, NIOC Maryland
 CTR1 Matthew Hamilton, NIOC Maryland
 CTTCS Gary Hatten, NIOC Colorado
 CTR1 Jack Manning, MNF-Iraq
 CTT1 Ana Norgaard, NIOD Yakima
 CWO3 Leticia Overton, NIOC Maryland
 CTR1 Richard Perucca, MNF-Iraq



MERITORIOUS SERVICE MEDAL

CWO3 Terri Rea, NIOC Norfolk
 CDR Boyd Zbinden, NCTSI San Diego



JOINT SERVICE COMMENDATION MEDAL

CTR2 Anthony Adams, NIOC Maryland
 CTT2 Richard Blatt, NIOC Hawaii
 CTT2 April Bifford, NIOC Maryland
 CTN1 Chad Brigrance, NIOC Maryland
 CTA2 Antoinette Bush, NIOC Maryland
 CTR2 John Caldwell, MNF-Iraq

LT Charles Cha, JSOTF-Philippines
 LTJG Bart Cheney, NIOC Maryland
 CTT1 Jacquelyn Clark, NIOC Georgia
 CTN2 Taylor Clausen, NIOC Maryland
 CTR1 Aaron Collar, NIOC Hawaii
 IT1 Rhonda Combs, 333rd Trng Sqdr Keesler AFB
 IT2 Christopher Cooper, NIOC Sugar Grove
 CTM2 Marcela Denniston, NIOC Hawaii
 CTN1 James Dodson, NIOC Maryland
 CTN1 Angela Embry, NIOC Maryland
 CTT2 Melinda Finch, NIOC Texas
 CTT2 Jessica Graves, NIOC Texas
 CTT1 Rachael Griggs, NIOC Georgia
 CTT2 Sarah Gunderson, NIOC Hawaii
 CTN1 James Hamilton, NIOC Hawaii
 CTR1 David Hankins, NIOC Sugar Grove
 CTN1 John Herchig, NIOC Maryland
 CTN1 Darren Hogan, NIOC Maryland
 CTIC Andrea Hurlley, NIOC Georgia
 CTT2 Janelle Ireton, NIOC Georgia
 CTT1 Jennifer Jarrett, NIOC Georgia
 CTT2 Jason Johnson, NIOC Georgia
 CTT1 William Johnson, NIOC Maryland
 SK1 Robert Kovacs, NIOC Sugar Grove
 CTR1 Trever Logan, NIOC Hawaii
 CTRC Gabriel Moore, NIOC Sugar Grove
 CTR2 Daniel Morrison, NIOC Hawaii
 CTN2 Duane Nako, NIOC Hawaii
 MACS Marcus Nieves, Joint Task Force
 CTN2 Adam Overman, SOFT Liaison Element-Afghanistan
 LT Andrew Paige, NIOC Maryland
 CTR1 Cipriano Ruvalcaba, NIOC Texas
 CTN1 Dean Schyvincht, NIOC Texas
 CTRC Danny Staton, NIOC Texas
 CTR1 Dustin Tieskoetter, CSG STRATCOM
 LTJG Kelly Torres, MNF-Iraq
 CTIC Daniel Trachl, NIOC Georgia
 CTT1 Kim Tran, NIOC Hawaii
 CTN2 Bethany Walters, NIOC Maryland
 CTR1 William Webster, NIOC Sugar Grove
 CTN1 Trent Whitney, NIOC Texas
 CTT2 Jay Wilkinson, NIOC Hawaii
 CTIC Sarah Yeom, NIOC Hawaii
 CTT2 Robert York, NIOC Texas



NAVY AND MARINE CORPS COMMENDATION MEDAL

LCDR Jamie Achee, NIOC Suitland
 ITCS Toni Asbill, NIOC San Diego
 LCDR Vincent Augelli, NCTS Bahrain
 CTT1 Amy Avellaneda, NIOC Hawaii
 CTTICM Ernest Ayers, NIOC Bahrain
 CTTMCS Brent Barnes, NNWC Ft Meade
 CTRC Lisa Billingsley, NIOC Georgia
 CTTIC Alexander Brown, NIOC Norfolk
 LNC Joseph Brown, NCTAMS PAC Wahiawa
 CTRC Ronnie Brown, NIOC Georgia
 LTJG Alexandra Buckley, NIOC Maryland
 LCDR Todd Chipman, NCTAMS PAC Wahiawa
 CMDCM Marie Clark, NIOC Suitland

CTIC Russell Crandall, NIOC Hawaii
 CTT1 Emily Dabruzzo, NIOC Hawaii
 LCDR Robert Damsky, NNWC Fort Meade
 CTNC Arthur Depew, NCDOD Norfolk
 CTRCS Trisha Dixon, NIOC Suitland
 CTICS Michelle Evans, NIOC Maryland
 SKCS Jimmy Fernandez, NCTS FE Yokosuka
 CTRC Jeffrey Gendason, NNWC Fort Meade
 YNC Havis Gill, NIOC Maryland
 LCDR Christopher Gregg, NR NIOC Devens
 ITC Patrick Hahn, NETWARCOM Norfolk
 ITC Malcolm Hall, NCTS Bahrain
 ITC Sheldon Hall, NCTS Bahrain
 ITCS Mauri Hampton, NR NIOC NORFOLK
 CTRC Dustin Hefley, NIOC Suitland
 IT1 Kathryn Heydon, NIOC Maryland
 LT Jaime Hill, NETWARCOM Norfolk
 CTOCM Nancy Hobart, NETWARCOM Norfolk
 ITC Jose Jones, NCTAMS LANT Det Rota
 CTT1 Michelle Kwon, NIOC Maryland
 LT Kenneth Lee, NIOC Sugar Grove
 CTIC Roger Leikness, NIOD Brunswick
 MACS Garnet Lever, NCTAMS PAC Wahiawa
 ETCS Timothy McGarry, NETWARCOM Norfolk
 CTR1 Jason McKay, NIOD Kaneohe Bay
 LCDR Jeffrey Moore, NIOD San Antonio
 LT Ricky Munson, NETWARCOM Norfolk
 CTTIC Robert Partin, NR NIOC Orlando
 CTT1 Aaron Phillips, NIOC Hawaii
 CTNCS James Potter, NIOC Maryland
 SKCS Warren Rainey, NIOC Norfolk
 CTRC Todd Rauschendorfer, NIOC Whidbey Island
 LT Eric Rennie, NIOC Suitland
 CDR Thomas Rielly, NR NIOC Fort Meade
 CTR1 Jaffet Rosado, NIOC Suitland
 LCDR Ernesto Salles, NIOD Seoul
 ETC Steven Souslin, MNC-Iraq
 CWO3 William Stocke, NIOC Norfolk
 ITCS Lisa Thomas, NCTS Naples
 CDR Michael Trovato, NETWARCOM Norfolk
 ITCS Bryant Walker, NETWARCOM Norfolk
 CTT1 Brandon Wann, NIOC San Diego
 LCDR Robert Wedgeworth, NIOC Norfolk
 ITC Dennis Wilson, NCMS Det Fort Huachuca
 CTR1 Janelle Wolf, NIOC Suitland
 CTRC Katherine Youngblood, NIOC Suitland



JOINT SERVICE ACHIEVEMENT MEDAL

IT3 Roberto Anglin, SOC Central, MacDill AFB
 Sgt Phillip Blair, USMC, NIOC Hawaii
 CTT2 Melody Bree, NIOC Texas
 CTT1 Mark Despain, NIOC Texas
 CTTM1 Christopher Duffy, NIOC Hawaii
 CTN1 Keith Elinkowski, NIOC Maryland
 CTN2 William Erickson, NIOC Maryland
 CTT2 Steven Finch, NIOC Texas
 CTN2 Kristen Franza, NIOC Maryland
 CTT2 Jennifer Gunn, NIOC Maryland
 CTR3 Matthew James, NIOC Maryland
 CTRSN Krista Jamison, NIOC Maryland

CTT2 Daniel Joseph, NIOC Hawaii
 CTN3 Christopher Kroner, NIOC Maryland
 CTT2 Roseann Langsdorf, NIOC Maryland
 IT2 Timothy Licano, AJFC Naples
 CTT2 Anne Lucier, NIOC Hawaii
 CTR2 Ryan McClure, NIOC Georgia
 CTT2 Keeley McDonald, NIOC Maryland
 CTR1 Steven McDonald, NIOC Georgia
 IT2 Traci Miller, NIOC Hawaii
 CTR1 Carlos Ocasio, NIOC Maryland
 CTT1 David Olivas, NIOC Texas
 MA2 Cara Richardson, NIOC Hawaii
 CTN2 Dale Roberts, NIOC Maryland
 CTT2 Zaki Rucker, NIOC Georgia
 CTR2 Jennifer Sangster, NIOC Maryland
 IT2 Ira Schoeppey, NIOC Hawaii
 CTR2 Justin Shaff, NIOC Misawa
 CTT2 Ann Sonnier, NIOC Hawaii
 CTR2 Jeffrey Speed, NIOC Misawa
 CTT2 John Steil, NIOC Hawaii
 MA1 Timothy Sutton, NIOC Hawaii
 CTR3 Ryan Thornhill, NIOC Misawa
 IT2 Ellen Tudor, NIOC Hawaii
 MA2 Leatrice Williams, Jr., NIOC Hawaii
 CTR1 Theresa Williams, NIOC Misawa
 CTR2 Michael Youngmans, NIOC Hawaii



NAVY AND MARINE CORPS ACHIEVEMENT MEDAL

CTR1 Patricia Acevez, NIOC Suitland
 HM2 Justin Adams, NIOC Texas
 CTN2 Thomas Adams, NIOC Norfolk
 IT1 Terrence Alford, Sr., NCTS FE DET CHINHAE
 IT1 Jackus Allen, NCTS Bahrain
 CTT1 John Allen, NIOC Hawaii
 IT1 Trensina Allen, NCTS Bahrain
 YNC Donella Anderson, NIOC Hawaii
 IT1 Shannan Arney, NAVSOC DET CHARLIE
 SK2 Nilo Bagsic, NCTS Far East Yokosuka
 CTT2 Angela Baker, NIOC Georgia
 ET2 Kenneth Barnes, NCTAMS PAC Wahiawa
 CTN1 Laura Baxter, NIOC Norfolk
 IT1 Tenille Baylis, NCTS Far East Yokosuka
 CTT2 Brian Berke, NIOC Georgia
 CTR2 Jermaine Blyther, NIOC Suitland
 CTN2 Kevin Boswell, NCDOD Norfolk
 IT2 Keith Bridges, NIOC Maryland
 IT1 Tauriland Brinkley, NCTS Far East Yokosuka
 IT1 James Brown, NCTAMS PAC Wahiawa
 IT1 Ricky Bryant, NCTAMS LANT Norfolk
 IT1 Melissa Bundy, NCTS Naples
 MC3 Travis Burcham, NETWARCOM Norfolk
 IT1 Etnnie Burnett, NCTS Far East Yokosuka
 IT1 Michael Butler, NCTAMS PAC Wahiawa
 CTR1 Chanell Carrington, NIOC Norfolk
 YN1 Gabriel Charron, NIOC Maryland
 IT3 Queenie Cheung, NCTS FE DET Okinawa
 CTR2 Brian Chase, NIOC Hawaii
 IT1 Edy Claudio, NIOC Maryland
 CTT1 Mickey Cleveland, Jr., NIOC Texas
 CTT1 Marc Cole, NIOC Maryland

IT2 Terrance Collier, NIOC Norfolk
 IT2 Christina Crawford, NCTAMS PAC Wahiawa
 CTT2 Ryan Cross, NIOC Maryland
 BM2 Melvin Davis, NIOC Norfolk
 LT Suzanne Delaney, NIOC Maryland
 CTR2 Michael Deno, NIOC Misawa
 IT1 Teia Donovan, NCDOD Norfolk
 CTTM1 David Eikleberry, NCTAMS LANT Det Hampton Roads
 IT2 Christopher Erhart, NIOC Yokosuka
 MA3 Ryan Evans, NIOC Sugar Grove
 CTTIC Carson Febus, NIOC Texas
 IT1 Erick Felton, NCTS Naples
 ITC Mark Fitz, NCTS FE DET Okinawa
 CTN2 Donald Flower, NR NIOC Minneapolis
 CTT1 Jessica Forsythe, NIOC Hawaii
 CTN2 Jeremy Frink, NIOC Texas
 CTIC Kasey Gallardo, CARSTRKGRU EIGHT
 IT2 Ceferino Garay III, NCTAMS PAC Wahiawa
 IT2 Emily Garcia, NCTAMS PAC Wahiawa
 CTT1 Richard Gargan, NIOC Hawaii
 CTN2 Christian Gerling, Jr., NCDOD Norfolk
 IT2 Tanisha Goins, NCTAMS PAC Wahiawa
 CTT2 Timothy Gray, NIOC Georgia
 CTR1 Jason Greer, CARSTRKGRU EIGHT
 CTR1 Charles Gregory, NIOC Georgia
 ET1 John Groom, NCTAMS PAC Wahiawa
 CTTIC Stephanie Harris, NIOC Texas
 CTTM1 Stephen Healy, NIOC Yokosuka
 CTT1 Nicolette Hensley, NIOC Norfolk
 CTTM1 Darrell Herschel, NIOC Hawaii
 CTTIC Jesse Hess, NIOC Hawaii
 CTTM1 Thomas Hess, NIOC Maryland
 LTJG Leighton Hill, NIOC Texas
 CTR1 Christie Hoban, NIOC Misawa
 CTTM1 Lawrence Hodgson, NIOC Yokosuka
 CTR2 Erik Holmes, NIOC Maryland
 CTR2 Joshua Hughes, NIOC Hawaii
 CTRSN Michael Humphries, NIOC Georgia
 IC1 Oscar Hunt II, NCTAMS PAC Wahiawa
 CTT2 Janelle Ireton, NIOC Georgia
 MC3 Crystal Jackson, NIOC Maryland
 CTR2 Joshua Jackson, NIOC Hawaii
 CTT1 William Jackson, NIOC Hawaii
 IT2 Christopher Kammerer, USS Laboon (DDG 58)
 IT1 Nicole Katzaman, NCTAMS LANT Norfolk
 CE1 Darrell Kegler, NCTAMS LANT Det Guantanamo
 ET1 Phillip Kendall, NCTS FE DET Okinawa
 IT1 Dustin Knauff, NCTAMS LANT Det Rota
 CTN1 Scott Krueger, NIOC Norfolk
 CTN1 James Lamecker, NR NIOC Minneapolis
 IT2 Christian Landry, NIOC Hawaii
 CTT1 Jason Levandowski, NIOC Georgia
 LT Derby Luckie, NCTS Far East Yokosuka
 CTR2 Travis Malestic, NIOC Hawaii
 LT Kennard Massie, NCTSI San Diego
 IT3 Danny McCoy, NCTS Naples
 IT1 Thomas McDaniel III, NCTS Far East Yokosuka
 ET2 Kevin Miles, NCTAMS PAC Wahiawa
 ET2 Matthew Miller, NCTAMS PAC Wahiawa
 YN2 Ronald Miller, NIOC Colorado
 CTR1 Andrew Minikus, NIOC Yokosuka
 CTT2 Nathan Moore, NIOC Hawaii
 IT2 Anthony Murphy, NCTAMS PAC Det Puget Sound
 CTT1 Niles Nelson, NIOC Maryland
 CTN1 Scott Nelson, NR NIOC Minneapolis

CTI2 Bryan Noynsoudachanh, NIOC Hawaii
 IT2 Robert Oleary, NIOC Maryland
 CTR1 Eliu Ortiz, NIOC Suitland
 IT2 Rajon Osborne, NCTAMS LANT Norfolk
 CTT2 Anthony Oubre, NETWARCOM Norfolk
 CTR1 Denise Owens, NNWG Fort Meade
 CTN1 Salena Oxenford, NIOC Norfolk
 CTT2 John Palmer, NIOC Maryland
 LTJG Brett Pancoast, NIOC Misawa
 CTR2 Rebecca Parrish, NIOC Georgia
 IT1 Josephine Patti, NCTS Naples
 IT3 Alejandro Pena, NCTS Naples
 CTT1 Christopher Penafiel, NIOC Maryland
 LT Phillip Petersen, NIOC Norfolk
 IT2 Aarin Phillips, NCTS Naples
 IT2 Kimberly Pierceall, NCTAMS PAC Wahiawa
 IT2 Ryan Plyar, NIOC Hawaii
 CTTM1 Kenneth Powell, Jr., NIOC Pensacola
 IT2 Christopher Rea, NCTS Far East Yokosuka
 ET2 William Raez, Jr., NCTAMS LANT Det Hampton Roads
 MA3 Markus Ramsey, NIOC Sugar Grove
 CTR1 Richard Rice, Jr., NIOC Suitland
 CTT1 Brandon Riggio, NIOC Bahrain
 CTR1 Justin Rodriguez, NIOC Maryland
 IT1 Candice Rook, NMCI Det Norfolk
 CTT1 Richard Samek, NIOC Norfolk
 CTTM1 John Schneider IV, NIOC Norfolk
 CS1 Christopher Shearin, NIOC Georgia
 CTR1 Cristopher Shepard, NIOC Misawa
 CTN2 Quincey Shepherd, NIOC Norfolk
 CTR2 Matthew Shortall, NIOC Maryland
 CTR2 Scott Shumaker, NIOC Maryland
 MC3 John Siller, NIOC Maryland
 YN2 John Slappy, Jr., NCMS Washington
 CTT1 Clint Smith, NIOC Georgia
 CTT2 Logan Smith, JTF-HOA
 ETC Steven Souslin, NCTAMS LANT Norfolk
 IT2 Laurie Steiger, NIOC Hawaii
 LT Ralph Stephens, NCTAMS PAC Wahiawa
 ENS Jay Stucki, NIOC Hawaii
 CTR1 Crystal Suda, NIOC Bahrain
 LCDR David Swanson, NR NIOC Devens
 CTT2 Shayne Tabbert, NIOC Georgia
 CTT2 Shawna Tarr, NIOC Bahrain
 CTR1 Nicole Katzaman, NCTAMS LANT Norfolk
 CE1 Darrell Kegler, NCTAMS LANT Det Guantanamo
 ET1 Phillip Kendall, NCTS FE DET Okinawa
 IT1 Dustin Knauff, NCTAMS LANT Det Rota
 CTN1 Scott Krueger, NIOC Norfolk
 CTN1 James Lamecker, NR NIOC Minneapolis
 IT2 Christian Landry, NIOC Hawaii
 CTT1 Jason Levandowski, NIOC Georgia
 LT Derby Luckie, NCTS Far East Yokosuka
 CTR2 Travis Malestic, NIOC Hawaii
 LT Kennard Massie, NCTSI San Diego
 IT3 Danny McCoy, NCTS Naples
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 ET2 Kevin Miles, NCTAMS PAC Wahiawa
 ET2 Matthew Miller, NCTAMS PAC Wahiawa
 YN2 Ronald Miller, NIOC Colorado
 CTR1 Andrew Minikus, NIOC Yokosuka
 CTT2 Nathan Moore, NIOC Hawaii
 IT2 Anthony Murphy, NCTAMS PAC Det Puget Sound
 CTT1 Niles Nelson, NIOC Maryland
 CTN1 Scott Nelson, NR NIOC Minneapolis



COMBAT ACTION RIBBON

CTM3 Matthew O'Bryant, NIOC Maryland

CIVILIAN LENGTH OF SERVICE AWARDS

Maria McDaniel, NCTAMS LANT - 40 years

Thomas Brewer, NCTAMS LANT Brunswick - 35 Years
 Ronald Flagg, NCTAMS LANT Norfolk - 30 Years
 Joseph Moehlman, NCTAMS LANT Det HR - 30 Years
 Carmond Robbins, NETWARCOM Norfolk - 30 years
 Elizabeth Tabor, NCTAMS LANT Norfolk - 30 Years
 Joanna Abell, NETWARCOM Norfolk - 25 years
 Giuseppe Bossa, NCTS Naples - 25 Years
 Marlinda Hodges, NETWARCOM Norfolk - 25 years
 Walter Kraslawsky, NETWARCOM Norfolk - 25 years

Edward Pendleton, NETWARCOM Norfolk - 25 years
 Max Isenhower, Jr., NCTAMS LANT Norfolk - 20 Years
 Gregory Miller, NCTS Jacksonville - 20 Years
 John Molinski, NCTAMS LANT Det Cutler - 20 years
 Kisha Parris, NETWARCOM Norfolk - 20 years
 Susan Posavetz, NCTAMS LANT Norfolk - 20 Years
 Sandra Showen, NAVNETWARCOM - 20 years
 Christine Carobine, NETWARCOM Norfolk - 15 years
 Christopher Gibbon, NCTAMS LANT Norfolk - 10 Years
 Antonieta Logan, NCTAMS LANT Norfolk - 10 Years
 Kevin Maker, NCTAMS LANT Det Cutler - 10 Years

Record Handshake stands



(Left to right) U.S. Coast Guard Petty Officer 1st Class Richard McCulley, an intelligence specialist stationed at Cryptologic Unit - Hawaii and U. S. Navy CTT3 Kirk Williamson from Kunia Regional Security Operation Center count down the minutes at the Aloha Stadium, Aiea, HI on Aug. 16. The two were going for the Guinness World Record for the Longest Handshake during a charity drive for the local Big Brothers, Big Sisters of Honolulu. The previous record for an uninterrupted handshake was nine hours and 19 minutes. McCulley and Williamson are now officially in the Guinness World Record book as handshaking record holders with a recognized time of 10 hours. (Photo by Petty Officer 3rd Class Michael De Nyse, U.S. Coast Guard)

EDITOR'S NOTE: For more information about this special event, please refer back to the Fall Edition of the InfoDomain magazine, page 43.

NCTAMS LANT Det HR civilian earns second 'Coordinator of the Year' accolade

Story & photo by Joseph Moehlman, NCTAMS LANT

Melinda Meade, Node Site Coordinator (NSC), at the Naval Computer and Telecommunications Area Master Station Atlantic Detachment Hampton Roads was recently selected as the Defense Information Systems Agency (DISA) Node Site Coordinator of the Year for 2008. This is the second year in a row that she has been selected for this prestigious honor.

Known throughout DISA simply as "Mindy," constituents can be assured when dialing her number to receive a cheerful "Mindy speaking" when she answers. Her consistent upbeat and friendly disposition leaves customers with a sense of satisfaction whether or not she was able to accommodate their request.

To be selected as the "best of the best" for the second straight year is a tremendous honor, one that Meade humbly accepts.



Melinda "Mindy" Meade

IN MEMORIAM

A CELEBRATION OF LIFE
 ETCM(SW/AW) ALLAN ANDREWS
 JULY 27, 1967 - NOVEMBER 7, 2008

"Missed...but never forgotten"

SERVICES WERE HELD NOVEMBER 12, 2008
 AT LYNNHAVEN UNITED METHODIST CHURCH,
 VIRGINIA BEACH, VA WITH A RECEPTION
 AT THE LITTLE CREEK AMPHIBIOUS BASE
 CPO CLUB



DIVERSITY

AFRICAN AMERICAN HISTORY MONTH

Sailor gains recognition as "Rising Star"

By ET2 Craig Black, NCTS Sicily

Throughout the Navy and our Nation, as well as in major corporations and organizations, diversity is a guiding principle and essential element. Americans from diverse backgrounds have made significant contributions to their organizations by providing innovative ideas and insights, based on their unique perspectives.

For the past 12 years, the Career Communications Group (CCG) has recognized minority women for their achievements in the fields of information technology, computer and information sciences, bioinformatics and digital arts.

This year's annual National Women of Color Science, Technology, Engineering and Math (STEM) conference was held in Dallas and was sponsored by CCG Incorporated, the publisher of "Women of Color Magazine" and IBM Corporation.

Among the attendees was IT2 Shawntavia Keaton from the Naval Computer and Telecommunication Station Sicily.

Keaton received recognition as a "Rising Star" for her accomplishments in the U. S. Navy over the past seven years. Others in attendance at the conference included CEOs, Astronauts, Teachers, Captains, and other top performing women who have been making major impacts in their fields.

"To be in the company of women who have achieved greatness in their career areas was an overwhelming experience," said ITC John Lyles from NCTS Sicily. "The experience was inspiring. It should lay the blueprint for all young women to follow and strive for excellence in any endeavor they choose to pursue."

He commented that, Keaton presented herself with the highest caliber of professionalism and impressed all who came in contact with her. He said she represented the Navy, Naval Air Station Sigonella, and NCTS Sicily well.

Born in St. Petersburg, FL in 1982, Keaton

is no stranger to achievement or recognition. In 2001, she graduated Cum Laude from James Campbell High School in Hawaii. She went on to join the Navy enrolling in the Delayed Entry Program and departed for boot camp in April 2002.

Keaton's talents and dedication became apparent at her first assignment aboard the USS BLUE RIDGE, the Flag Ship of the Commander, Seventh Fleet in Yokosuka,



IT2 Shawntavia Keaton poses with her award.

Japan. There, she earned her Surface Warfare Specialist pin as a seaman apprentice, making her one of the most junior Sailors in the Navy to qualify in almost 10 years. As a result of her hard work and dedication, she was acknowledged as the Junior Sailor of the Quarter and later as the Junior Sailor of the year. She received her first Navy and Marine Corps Achievement Medal (NAM) shortly thereafter.

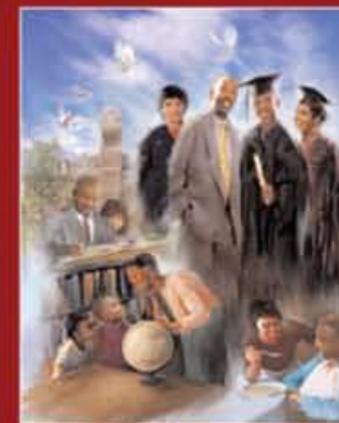
Her next assignment was U.S. Naval Forces

Central Command (NAVCENT) Manama, Bahrain, from January 2005 to January 2007. There, she supervised the daily operations of the Joint Worldwide Intelligence Communications System (JWICS), and was the Automated Message Handling System (AMHS) administrator. Again she was recognized for her commitment and hard work when she was selected as the 2005 Blue Jacket of the Year and advanced to petty officer second class through the Command Advancement Program. She was then awarded her a second NAM.

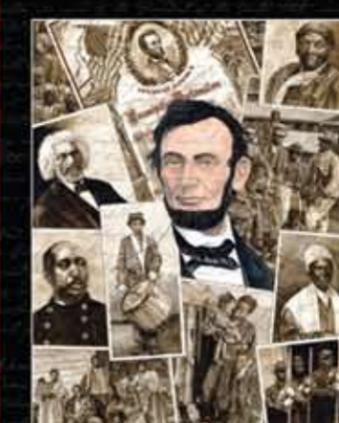
Keaton continues to strive for excellence. Currently she is stationed at NCTAMS Sicily serving as an Information Assurance technician, responsible for ensuring the safety and security of the naval computer networks at NAS Sigonella.

Keaton oversees the issue of Public Key Infrastructure (PKI) certificates for both Navy personnel and the Italian Local Nationals who work at Sigonella. She also serves as an Equal Opportunity Committee member, Assistant Command Fitness Leader and Leading Training Petty Officer, yet she still finds time to volunteer at the Navy and Marine Corps Relief Society Thrift Store. She recently earned her Associates degree in Business Administration, graduating Summa Cum Laude from the American InterContinental University Online.

These accomplishments highlight only a portion of Keaton's overall commitment to excellence, which led to her selection as NCTS Junior Sailor of the Quarter for the 3rd quarter of 2008. Keaton's supervisor, Aixa Olivera, said that Keaton is extremely determined and committed to her work. "She strives to do it right the first time and is extremely determined," Olivera said. "She is a real go-getter and will work with little or no supervision to get the job done. She is absolutely a great asset and I am proud to be able to work with her."



National African American History Month



BLACK HISTORY MONTH
"Quest for Black Citizenship in the Americas"



Ship's Namesake honors BMCM Brashear

Secretary of the Navy, Dr. Donald C. Winter, announced the naming of the seventh and eighth Military Sealift Command ships of the Lewis and Clark-class Auxiliary Dry Cargo ships (T-AKE) as Carl Brashear and Wally Schirra. T-AKE 7 honors Master Chief Boatswain's Mate (Master Diver) Carl M. Brashear (1931 - 2006). In 1970 Brashear became the first Black-American master diver in U.S. naval history, despite a crippling injury.

Born in Tonneyville, KY, Brashear later joined the Navy in February 1948 at the age of 17. Confined to the galley, like most Blacks and Filipinos of the era, Brashear decided early on in his career to make deep-sea diving his profession, which was unheard of for a Black-American Sailor at the time. He was admitted to the Navy Dive School and overcame a seventh grade education to have a notable career as a navy diver. However, in 1966, he lost half his left leg during a diving mission.

Through remarkable courage and force of will, he convinced Navy officers that he was capable of performing his duties, even as an amputee. In 1998, he became one of



T-AKE Carl Brashear

only seven enlisted men to be enshrined in the naval archives. Brashear's heroic life story and indomitable spirit became the basis for the 2000 film, "Men of

Honor". Brashear died of respiratory and heart failure at the Portsmouth Naval Medical Center, Portsmouth, VA on July 25, 2006.

Upcoming Diversity Conferences

From LCDR Richard A. Borden

CONFERENCE	LOCATION	DATES	WEBSITE
•HBCU/Minority Institutions Conference	TBD.	9 Feb	www.hbcumicconference.com
•Black Engineer of the Year Awards (BEYA)	Baltimore, MD	18-22 Feb	www.blackengineeroftheyear.org
•Heros & Heritage (H&H) Student Leadership Summit	San Antonio, TX	3 Mar	www.herosandheritage.net
•19th Annual Women in Aviation International (WAI) Conference	Atlanta, GA	9 Mar	www.wai.org
•National Association For Equal Opportunity In Higher Education (NAFEO) -- National Conference on Blacks in Higher Education	TBD	9 Mar	www.naefo.org
•National Society of Black Engineers (NSBE) Convention	Las Vegas, NV	25-29 Mar	www.nsbe.org
•Association of Naval Services Officers (ANSO)	San Diego, CA	Apr-May	www.ansomil.org
•Federal Asian/Pacific American Council (FAPAC)	Houston, TX	11-15 May	www.fapac.org
•Nat. High School Drill Team Championships (NHSDDTC)	Daytona, FL	2-4 May	www.thenationals.net/nhsddtc.htm
•Nat. High School Drill Team Championshi	San Antonio, TX	12-17 May	http://nationalimageinc.org/
•Society of American Indian Government Employees (SAIGE) National Training Conference	San Diego, CA	1-5 Jun	www.saige.org

EDITOR'S NOTE: For more information on NETWARCOM's Diversity Program contact LCDR Richard A. Borden at (757) 417-6757 x 6 or richard.a.borden@navy.mil

NIOC MARYLAND

REMEMBERS FALLEN SHIPMATE

Story by MC2(SW) Christopher J. Koons
Photo Illustration by MC2(SW/AW) Justin L. Ailes

A memorial service was held for CTM3 Matthew J. O'Bryant on Sept. 30 at the Calvary Assembly of God Church in Mobile, AL. O'Bryant was killed 10 days earlier in the bombing of the Marriott Hotel in Islamabad, Pakistan.

O'Bryant, 22, who was attached to Navy Information Operations Command in Fort Meade, MD and was on temporary assignment to the Office of Defense Representative Pakistan, died when a suicide truck bomber struck the hotel, killing at least 60 other people. The Marriott was a well-known gathering spot for Westerners living and working in Pakistan.

During the ceremony, O'Bryant's older brother Lawrence, who is also in the Navy, called his deceased sibling a "hero" and a "patriot" who carried on his family's tradition of serving in the military. In addition to Lawrence, two of O'Bryant's cousins are also in the Navy.

"There were four of us in the Navy," said Lawrence. "Well, there's three now, but I guess there will always be four of us because (Matthew) will always be in the Navy."

A native of Theodore, AL, O'Bryant joined the Navy in 2006 after having attended the Art Institute of Atlanta for two years. He had excelled in the ROTC program at Theodore High School.

"He was the nicest person you'd ever know," said O'Bryant's Uncle Roger. "He got along with everybody. He was friendly and was a real good person."

During the service, representatives of various veterans' organizations presented plaques, certificates, and other honors to O'Bryant's family. Alabama State Sen. Ben Brooks brought a certificate of commendation from Gov. Bob Riley. O'Bryant's flag-draped coffin was also flanked by large stands of flowers, including one in the shape of an anchor.

"He was exactly the kind of Sailor we want in the Navy," said CAPT Richard Bodziak, NIOC Fort Meade's commanding officer.

During his time in the Navy, O'Bryant had been awarded the National Defense Service Medal and the Global War on Terrorism Medal. He is survived by his wife, Bridget; parents, Tommy and Barbara; brother, Lawrence; and sister, Janet. He has been posthumously awarded the Bronze Star and Purple Heart medals, along with a Combat Action Ribbon. ❧



DEPARTMENT OF THE NAVY

Naval Network Warfare Command
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2465 Guadalcanal Road
Norfolk, VA 23521-3228

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