

Shore C2ISR & Integration Department Introduction and Overview

16 July 2024

Mr. Bruce Carter, SSTM

Department Head Shore C2ISR and Integration

CDR Alexander Williams, USN, OIC, Europe/Africa

LCDR Tricia Nguyen, USN, OIC, Middle East

Mr. Donovan Lusk, Command and Operations Centers Div. Head

Mrs. Chris Litwin, Special RECON., Surveillance, & Exploitation Div Head

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Mr. Greg Stevenson, Force Protection Solutions Div Ops Mgr

Mr. Myke Payne, Defense Health IT Div. Ops Mgr

Mr. Billy Rollins, Industrial Controls Systems & Applications Div. Head





Shore C2ISR & Integration Department Overview

Mission

Enable Naval and Joint Readiness by providing integrated Command, Control, and Intelligence products and services that allow for secured mission execution through sound engineering and implementation.

Vision: Delivering Engineered Shore C2ISR solutions that matter to the Warfighter and Nation.











Major Customers

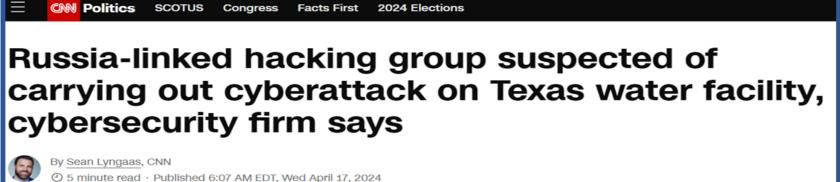
- Commander, Navy Installations Command
- Marine Corps Installations Command
- Naval Air Systems Command
- Naval Facilities Engineering Command
- Defense Health Agency

Divisions

- Defense Health Information Technology
- Industrial Controls Systems and Applications
- Special Reconnaissance, Surveillance and Exploitation
- Force Protection Solutions
- Command and Operations Centers
- Air Traffic Control Engineering



Russia In The News





evolved



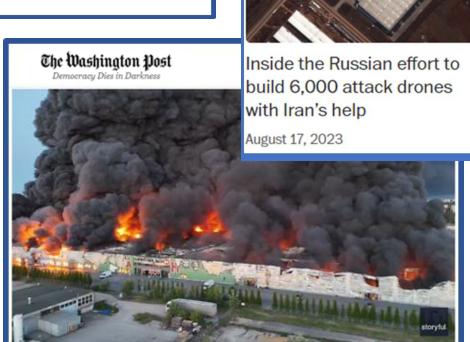
By Nick Paton Walsh, Sarah Dean and Karolina Jeznach, CNN. Video by Clayton Nagel, CNN

② 7 minute read · Updated 5:34 AM EDT, Wed July 10, 2024

Russia recruits sympathizers online for sabotage in Europe, officials say Europe has been grappling with an increase in Moscow-led sabotage attacks as Russia turns its focus to increasing the cost of Western support for Ukraine.

The Washington Post

By Souad Mekhennet, Catherine Belton, Emily Rauhala and Shane Harris



Arsonists burned down Marywilska 44 Shopping Center on May 12 in Warsaw. Polish police arrested nine

men allegedly involved in a Russian criminal ring, (Video: Wawa Hot News 24 via Storyful)

The Washington Post

Democracy Dies in Darkness



China In The News



US Indo-Pacific Commander 'very, very concerned' about Chinese aggression in South China Sea



Chinese hackers spent 5 years waiting in U.S. infrastructure, ready to attack, agencies say

Chinese hackers spent 5 years waiting in U.S. infrastructure, ready to attack, agencies say

The report is one of the first public indications that Chinese hackers have had years of access to U.S. infrastructure.

The Washington Post

TECH POLICY

China's cyber army is invading critical U.S. services

A utility in Hawaii, a West Coast port and a pipeline are among the victims in the past year, officials say

By Ellen Nakashima and Joseph Menn

December 11, 2023 at 6:00 a.m. EST





FBI Director Christopher Wray on April 18 warned national security and intelligence experts, as well as students, that risks the government of China poses to U.S. national and economic security are "upon us now"—and that U.S. critical infrastructure is a prime target.

"The PRC [People's Republic of China] has made it clear that it considers every sector that makes our society run as fair game in its bid to dominate on the world stage, and that its plan is to land low blows against civilian infrastructure to try to induce panic and break America's will to resist," he said in remarks at the Vanderbilt Summit on Modern Conflict and Emerging Threats in Nashville.

But he suggested that partnerships with both the private sector and academia can be powerful tools in the quest to neutralize this threat.



Changing Business Landscape In Shore C2ISR and Integration Department – Update

Work Shaping (an update)

- Defense Health Modernization System Support
- DLA Automated Fuel Handling
- IT Systems Support CNIC
- Reviewing all Projects Annually
- Trending towards R&D efforts and partnerships
- Naval is a priority <u>and</u> Navy is a component of any Combatant Command; therefore, Joint Interoperability is extremely important!

▼ Focus on Major Initiatives

- OCONUS Support / Naval Integration (Mission Engineering, Data Science, Autonomy)
- Shoreside Configuration Management
- Global Naval Electronic Security Solutions
- Electronic Warfare Capabilities
- Cyber Operations
- Enabling Warfighter Decision Superiority
- Employment of Artificial Intelligence wherever we can and as often as we can



Fifth & Sixth Fleet AOR Overview

CDR Alexander Williams
NAVWAR Officer in Charge Europe & Africa

LCDR Trica Nguyen
NAVWAR Officer in Charge Middle East





NAVCENT Fifth Fleet Overview

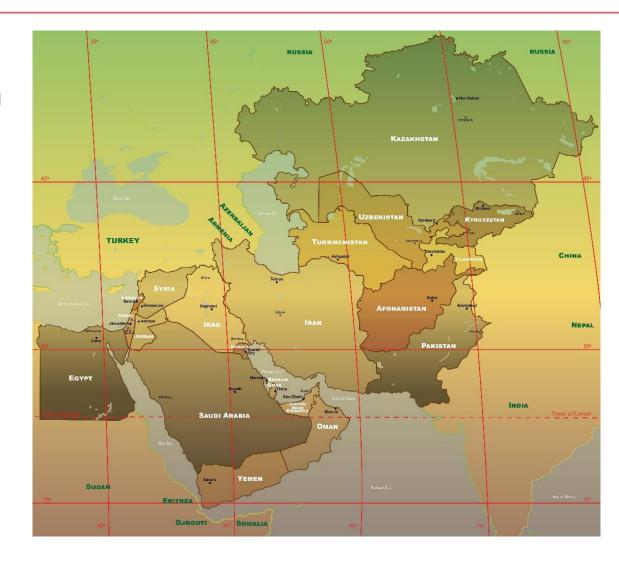
- ▼ Mission: Conduct maritime security operations, theater security cooperation efforts, and strengthen partner nation's maritime capabilities to promote security and stability in the C5F AOR.
 - Spans 21 nations from Africa, across the Middle East, to Central and South Asia.

▼ Lines of Effort:

- Deter Iran
- Counter Violent Extremist Organizations (C-VEOs)

Functional Priorities

- Regional Constructs
- IAMD/C-UAS





NAVEUR/AF and Sixth Fleet Overview

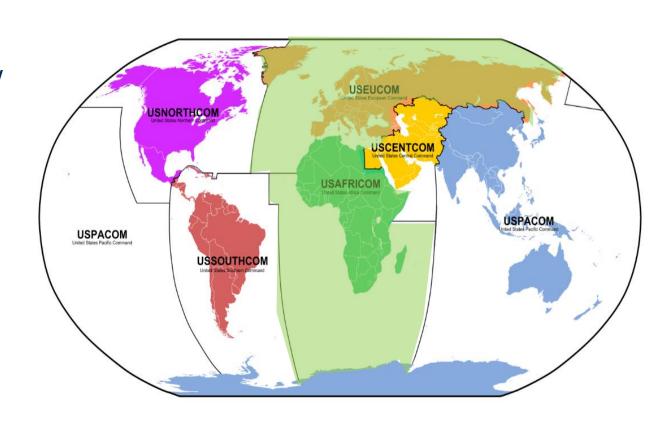
- Mission: Conduct the full range of maritime operations and theater security cooperation in concert with Coalition, Joint, Interagency, and other partners to advance security and stability in the C6F AOR
 - AOR supports both USEUCOM and USAFRICOM

▼ Lines of Effort:

- Deter Russian aggression against NATO
- Counter VEO's
- Partnership Building

▼ Functional Priorities:

- Coalition Communications
- Unmanned Systems
- Data Science and Data Engineering





Operational Update

Unmanned Technology

BALTOPS 23: A testbed for new technology

June 15, 2023 — As in previous years, U.S. Sixth Fleet is partnering with the U.S. Naval research enterprise to bring the latest advancements in emerging unmanned technologies to conduct mine countermeasures (MCM) operations. To forward these efforts, Sailors and Marines are experimenting and integrating with Unmanned Underwater Vehicles (UUVs), Unmanned Aerial Vehicles (UAVs), and Unmanned Surface Vehicles (USVs). ... MORE »



Enhancing Partnerships

Exercise Sea Breeze 24, a Ukraine/US led multi-national Mine-Countermeasure exercise successfully completed in Scotland

July 8, 2024 — Exercise Sea Breeze took place of the west coast of Scotland for the second year where NATO and Ukrainian warships were supported by staff from 11 countries based in King George V docks in Glasgow. This two-week Mine Countermeasure exercise took place in the Firth of Clyde and Northen Minches, which was a culmination of two years of training for the Ukrainian staff and MCMV crews enabling them to successfully plan, control and execute mine countermeasure activities in a range of scenarios... MORE >>

BALTOPS 24 concludes in Kiel, Germany

June 22, 2024 — Twenty NATO Allies concluded the 53rd iteration of exercise Baltic Operations 2024 (BALTOPS-24) in Kiel, Germany, June 20, 2024... MORE >>

NATO Allies Participate in Joint Personnel Recovery Exercise

June 19, 2024 — Service members assigned to Helicopter Sea Combat Squadron (HSC) 28, in coordination with British and Lithuanian allies, participated in a personnel recovery exercise June 10, 2024, in the Baltic Sea... MORE >>







Command and Operations Centers Division Mission and Opportunities

Mr. Donovan Lusk
Command and Operations Centers
Division Head





Command and Operations Centers Division Overview

Primary Customers

- 2nd/3rd/4th/5th/6th Fleets
- NAVCENT
- NAVEUR/NAVAF
- Fleet Forces Command
- NCTAMS LANT/PAC
- NAVWAR HQ 4.0
- PMW 790
- MARCORSYSCOM
- EUCOM
- AFRICOM
- NORTHCOM
- OSD
- USAREUR
- National Guard Bureau
- Shore C3

What We Provide to support the warfighter

- Naval and Joint Command and Operations Centers
 - Maritime Operations Centers (MOCs)
 - Joint Operations Centers (JOCs)
 - Area Defense Sectors
- MILCON C4ISR Engineering, Integration, and Testing
- C2 Capability Development
- Multimedia Collaboration and Display Systems
- Data Science and Engineering
- Exercise Planning (Solutions Development and Deployment)





Command and Operations Centers Division

Opportunities

▼ Looking Forward:

- DoD/Navy/Warfighter Solutions
 - Shore C3 PMO: Support to centralize Maintenance and Modernization of Shore IW Platforms
- Integrating with Science and Technology
 Department to deploy capabilities to Fleet customers
- Blending of Mission Engineering, Systems
 Engineering, Data Science, and DEVSECOPS
 into unique C2 Capabilities
- Acceptance of Digital Engineering Products that are outside of current Standards
- How to prepare digital models for data analytics





Special Reconnaissance, Surveillance and Exploitation Division Mission and Opportunities

Mrs. Christine Litwin
Special Reconnaissance, Surveillance and Exploitation
Division Head





Special Reconnaissance, Surveillance, and Exploitation Division Overview

Primary Customers

- Joint Strike Fighter F35 Program Office
- National Security Agency (NSA)
- Defense Intelligence Agency (DIA)
- Test Resource Management Center (TRMC)
- Naval Air Systems Command (NAVAIR)
- Office of the Under Secretary of Defense (OUSD)
- National Reconnaissance Office (NRO)
- Space Systems Command
- Navy Tactical Exploitation of National Capabilities (TENCAP)

What We Provide to support the warfighter

- SIGINT: Sensor Integration and Software Defined Radio capabilities
- Artificial Intelligence: Data Generation, Data/Model Standardization
- Cybersecurity: Zero Trust and Penetration Testing
 - Cyber Range: planning and execution of large- scale, complex, distributed cybersecurity events satisfying customer requirements
- Cloud Computing and DevSecOps
- Infrastructure Engineering





Special Reconnaissance, Surveillance, and Exploitation Opportunities

▼ IWRP OTA Opportunities

- F-35 Joint Program Office: Combat Data Systems PMO
 - Mission Portable Server System
 - Inline Encryption/Filter Device
 - Mission Planning Environment Cross Domain Solution
- IC Sponsor (Classified Aug 2024)
 - Identity, Credential, & Access Management (ICAM)
 - Disconnected Operations (DDIL)



Air Traffic Control Engineering Division Mission and Opportunities

Mr. Robert Heaton
Air Traffic Control Engineering Division
Chief Engineer





Air Traffic Control Engineering Division Overview

Primary Customers

- NAVAIRSYSCOM/ PEO(T) PMA-213
- 9th Air Force (AFCENT)
- NAVWARSYSCOM/ PEO C4I PMW120
- National Science Foundation (NSF)
- FAA
- HQ Air Combat Command (ACC)
- HQ Air Force Life
 Cycle Management
 Center (AFLCMC)
- HQ Air Force Flight Standards Agency (AFFSA)

What We Provide

- Air Traffic Control facilities to include Radar, Towers, Communications, and Airfield Lighting Control
- ATC/METOC/C2 Design, Engineering, and Integration
- Aviation Command and Control (AC2) Services
- ATC Logistics and Configuration Management

NAVAIR 1992 MOA established SPAWAR Systems Center (now Naval Information Warfare Center) Atlantic as an ATC Center-of-Excellence to support shore-based ATC & Landing systems and programs worldwide





Air Traffic Control Engineering Division

Opportunities

▼ Looking Forward:

- Appropriate cyber support and experience across all projects/products, to ensure they meet cyber compliance requirements and continuous monitoring (CONMON). Specifically, completing STIGS and Scans, and working with individual product lines to apply patches in the fleet, as well as providing the documentation to support Authorities to Operate (ATOs).
 - Experienced network engineers to help design a future network architecture for the VIDS, FOCIS, DASR (Eurocontrol ASTERIX IP), and Radios (Eurocontrol ED-137C) to maintain compliance with current ATOs and implement Zero Trust Authority where required.
- Innovative website architecture team to assist NIWC ATCED build and populate a comprehensive technical online repository for the Navy and Marine Corps ATC Enterprise.

▼ Successes:

- Polar Programs Operations Support Contract Awarded Chickasaw Alliance Group 8 Jul 2024
- Polar Programs Cyber Security Support (SeaPort TO) Information Systems Solutions (ISS) 1QFY24

▼ Future:

 ATC Special Programs [Aviation] Support Equipment Management System (SEMS) / Metrology and Calibration (METCALS) Support contract – planned FY25 award



Force Protection Solutions Division Mission and Opportunities

Mr. Greg Stevenson
Force Protection Solutions
Operations Manager





Force Protection Solutions Division Overview

Primary Customers

- Marine Corps Installations Command (MCICOM)
- Commander, Navy Installations Command (CNIC)
- U.S. Secret Service (USSS)
- National Geospatial-Intelligence Agency (NGA)



What We Provide to support the warfighter

- Integrated capabilities, situational awareness, detection and deterrence, command and control, and coordinated emergency response deploying ESS/EMS solutions around the globe
- ESS/EMS cyber secure, baseline configurations for installations while increasing the ease of maintainability
- Maintain Navy and USMC ESS labs to ensure standardization, systems configuration and cyber compliance
- ESS / MNS Technical Service Agency for USMC

Designated Technical Manager for Navy ESS*; executing procurement, installation, training, and

sustainment

* Per NAVADMIN 193/22

Executing Integrated Product Teams

Navy ATFP

Naval Enterprise Solutions

Marine Corps ESS

Presidential / Joint Systems & Applications





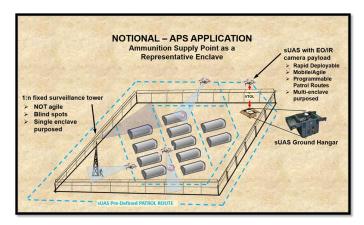
Emergent Technology Implementation Efforts



Exploring the utilization of 5G to augment base wide network infrastructure for ESS/EMS

LiDAR scan area of

Software tools to



Testing the use of unmanned systems as a force multiplier



AR/VR - augment training and maintenance for ESS systems



Enable the use of **ESS** sensors and data to inform an integrated defense in depth strategy

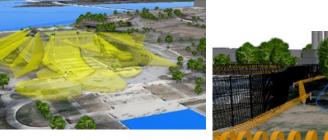


Utilization of LiDAR to create BIM facilities drawings

Sensor detection zones gap/overlap analysis



Generate 3D model from Software







Contract Actions

- ▼ IT-OT-Cybersecurity Engineering Support Large MAC
- ▼ Emergent & Special Security Solutions Large SAC
- ▼ ESS Global Security Solutions Large MAC (30% SBSA Target)



Defense Health Information Technology Division Mission and Opportunities

Mr. Myke Payne
Defense Health Information Technology Division
Operations Manager





Defense Health Information Technology Division Overview

Primary Customers

- Defense Health Agency (DHA)
- Program Executive
 Office Defense
 Healthcare
 Management Systems
 (PEO DHMS)
- USMC/PEO Manpower Logistics and Business Solutions (MLB)
- Navy Bureau of Medicine
- USAF

What We Provide to support the warfighter

 Provide full life-cycle development and support of military health system enterprise IT systems and capabilities in order to support and improve warfighter readiness.

- Division's Key Focus Areas:
 - Hosting & NetOps
 - Engineering & Services
 - Defensive Cyber Operations
 - OpMed Capability
 - Deployment and Integration
 - Surge and Rapid Responses Capability

How We are Reshaping to better support the warfighter

- Enhanced focus on being Innovative and Transformative
- Selectively reshaping work to engage and progress critical Naval and NAVWAR initiatives

EXCELLENC

- Continue strategic effort of "divest to reinvest"
- Expand beyond a solely medical focus
 - Medical/DHA is not going away or losing importance!!!









Defense Health Information Technology

Opportunities

▼ Looking Forward:

- Al Capabilities and Systemic Enterprise Al Adoption Strategies
- Innovative technologies and ways to improve battlefield medical technology and care
- True cost-saving strategies and capabilities



Industrial Control Systems and Applications Division Mission and Opportunities

Mr. Billy Rollins
Industrial Control Systems and Applications
Division Head





Industrial Control Systems and Applications Division Overview

Primary Customers

- Defense Logistics Agency
- USCG

What We Provide to support the warfighter

- Advances innovation, science, and technology for the DLA Distribution/Disposition network through major research & development of new technologies, ideas, business practices, and processes.
- Ensuring the cybersecurity of control systems that may handle sensitive and classified information and are responsible for managing critical USCG logistics operations.





USCG/Automated Fuel Inventory Accountability and Management

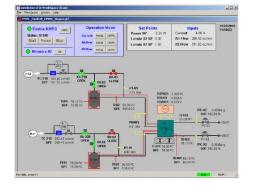
Sponsor: USCG-46

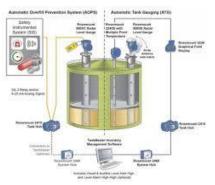
Use Case: Automatic Fuel Inventory and Transaction Monitoring





Technologies Employed: Sensor Integration, Centralized Data Access, Electronic Point of Sale (EPoS) systems and enterprise fuel accounting.





Goals:

- Advanced fuel sensor integration (Automatic Tank Gauging (ATG), Electronic Meter Register Systems)
- Generate custom dashboards/comprehensive reporting
- Provide system training



Locations:

16/25 USCG Air Stations







USCG/Shore Infrastructure Logistics Command

Sponsor: Shore Infrastructure Logistics Center (SILC)

Tasking: Cyber Program and Facility Related Control System

(FRCS) support



Technologies Employed: Network Segmentation, Secure

Goals:

- **Full Cyber Program for FRCS**
- Accreditation using RMF of FRCS starting with advanced metering infrastructure (AMI)
- Obtaining a level 2 maturity model using the Cybersecurity **Capability Maturity Model (C2M2)**

Provide cybersecurity consultation, analysis, remediation, site assessments, inventory collection and vulnerability

assessments

Locations:

50+ sites with AMI

FRCS = USCG wide

Cybersecurity Capability **Maturity Model**











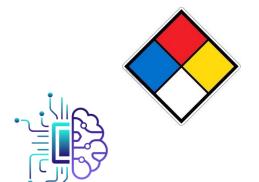
DLA/5G Smart Warehouse

Sponsor: Defense Logistics Agency

Use Cases: Indoor, Outdoor, Hazmat, and Classified Inventory

Management





Goals: Automated inventory management, asset visibility and tracking, audit readiness









Locations:

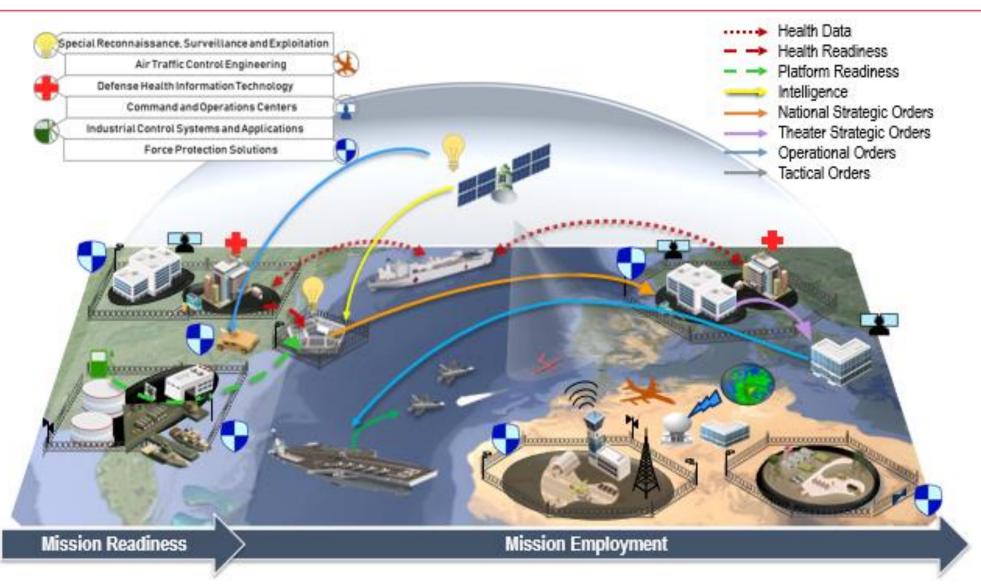
- Oklahoma City, OK
- Albany, GA
- Anniston, AL







Shore C2ISR Department Operational View





Questions?

"It follows then as certain as that night succeeds the day, that without a decisive naval force we can do nothing definitive, and with it, everything honorable and glorious."

"President George Washington, 15 November 1781, to Marquis de Lafayette. [The Writings of George Washington from the Original Manuscript Sources 1745-1799. vol.23. (Washington, D.C.: U.S. Government Printing Office, 1937): 341.]



George Washington.

"I wish to have no Connection with any Ship that does not Sail fast for I intend to go in harm's way."

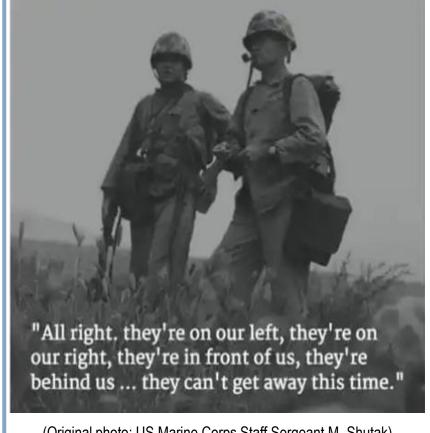
Captain John Paul Jones, 16 November 1778, in a letter to le Ray de Chaumont. [Morison, Samuel Eliot. John Paul Jones: A Sailor's Biography. (Boston: Little, Brown and Company,







Lt. Gen. Lewis "Chesty" Puller, USMC



(Original photo: US Marine Corps Staff Sergeant M. Shutak)