Naval Information Warfare Center Atlantic
Enterprise Systems Department Overview

Charleston Defense Contractors Association
52nd Small Business and Industry Outreach Initiative
16 October 2019

Mr. Patrick Fitzgerald, SSTM
NIWC Atlantic
Enterprise Systems Department Head
Who is Patrick Fitzgerald?

- 20+ years with Navy and Intel organizations
  - NSWC Carderock & Dahlgren, Joint Warfare Analysis Center, Defense Intelligence Agency, PEO EIS PMW 220 & PMW 240, NIWC Atlantic

- Education
  - BChE, MS Tech Mgmt (Info Sys & Services), MBA; CIO & IT PM – NDU

- Experience
  - Network & Systems Admin, Web Developer, DBA, IT Project & Program Management, and policy development

- Role
  - Focus on supporting IPTs and Division Heads
  - External focus on customer engagement & relationships
  - Coordinating with competency leadership
  - Building relationships across DON & DoD
Enterprise Systems Department

ES Department
FY19: ~475 FTEs

44 Programs / Projects

- Provide automation through development and deployment of modern software-intensive solutions
- Networks and Satellite Communication Gateways
- Hosting for software application and services including private and commercial Cloud services
- Provide software engineering solutions for MPT&E

Enterprise Systems Divisions
Rapidly identify and implement affordable Enterprise IT solutions by promoting innovation, developing our personnel, and forming strategic partnerships across NIWC Atlantic and with our customers.

- Data Center & Cloud Hosting Services (DC2HS) Division
- Manpower, Personnel, Training & Education (MPT&E) Division
- Enterprise Business Systems (EBS) Division
- Infrastructure Systems (IS) Division

Major Sponsors

- PMW 205
- PMW 220
- PMW 240
- PMW 250
- PMW 280
- PMS 444
- NAVSEA 04I
- DISA

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Changes

▼ Enterprise Systems Department

- New Department Head
- New Division Heads
  - EBS: Jim Barr (selected)
  - Infrastructure: Cathy Young (retired) – Brett Huffman acting
  - DC2HS: Teri-Lee (career rotation) – Bobby Thornton acting

▼ General

- IWRP – many of our customers are leveraging it
- Digital Transformation – PMW 240 awarded TPC&P task order to implement the MyNavy HR transformation on 6 Sep ($385M)
- Acting with urgency (time to capability) key focus area
Enterprise Systems Department

Total FTE ~ 1,311
GOV/MIL ~ 475
CTR ~ 836

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Enterprise Systems Thrust Areas

▼ Enterprise Networks
- Vision: Partner with PMW 205 to improve the performance & affordability of NGEN
  - Latency testing with numerous stakeholders

▼ Software Development (DevSecOps)
- Vision: Drive cultural change to embrace SecDevOps across NIWC Atlantic & our customers
  - Partnering with Expeditionary Dept., 5.0, and PEO EIS to change IT delivery culture

▼ Cloud & Data Center Services
- Vision: Enable a hybrid cloud solution for the Navy, including:
  - Ruthless automation enabling workforce shift to value-added enterprise services and engineering support
  - Digital Core Services offerings

▼ Mobility & Mobile Application Design
- Vision: Enable access to information on any device, anywhere, including:
  - Improved user experience, resiliency, operational capabilities, & ability to leverage talent
  - Enable Classified and U//FOUO mobility solutions; explore 5G

We must respond to challenges and opportunities with urgency as our new operational standard

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The DC2HS Division is responsible for providing infrastructure hosting and sustainment services to support DoD strategic and operational objectives, transition and Integration efforts to move systems from legacy data center sites to our hosting environments and for developing modernization initiatives to create more secure and commercial-ready systems. For all of the environments we provide services for, we also provide Engineering Services, as well as required supporting services (Database, Cybersecurity, etc.).

Total Gov’t ~ 113
Total Contractors ~ 249
Total Military ~ 5
## Cloud Technologies and Services IPT

### Description
- The Cloud Technologies and Services (CTS) IPT is responsible for providing Commercial Cloud Brokerage and Cloud Engineering Services to support DoD and DON.
- Provides brokerage for Amazon Web Services (IL2, IL4/5) for IaaS and OPEN (IL2) for SaaS/PaaS Web Hosting. Will begin providing brokerage for Azure (IL4/5) IaaS and Salesforce (IL4) SaaS beginning in FY20.

### NIWC Atlantic Role
- Provide Cloud Subject Matter Expertise to NIWC Atlantic and DC2HS Division regarding: Cloud Migrations (DC2HS Transitions), Cloud Operations (DC2HS Managed Services), Cloud Security (DC2HS Cyber), and Cloud Access (DC2HS CAP)
- Enable Command Growth in the Cloud Technology Growth Area (TGA)
- Supports guiding Mission Owners to developing Cloud Native and Cloud Aligned applications.
- Integrate Cloud Native Services and Technologies
- Provide Cloud Security and Business Management via Cloud Broker Authorization and CAP Authorization

### Projects
- AWS IL5 Shared Services
- Azure CSP Onboarding through Brokerage
- Salesforce CSP Onboarding through Brokerage
- DevSecOps via Openshift in AWS
Hosting and Infrastructure IPT

Description

- The Hosting and Infrastructure Services IPT is responsible for providing infrastructure hosting and sustainment services.
- Offers three hosting environments: two Component Enterprise Data Centers (CHAS and NOLA) and a Navy Enterprise Disaster Recovery Center (NEDRC) in KC, and shared services available to Mission Owners both on-premise environments and commercial cloud environments (AWS, Azure, etc.).

NIWC Atlantic Role

- Two of the designated CEDCs are within NIWC Atlantic with supporting services and engineering activities
- Operate NEDRC for all Enterprise DR Hosting
- Provide Shared Services
- Support modernization of infrastructure and new capabilities based on changing technologies using a Core Engineering Team
- Operate Millington Data Center (MDC) in support of MyNavy HR Transformation activities

Services and Projects

- Infrastructure as a Service (IAAS) for CEDCs and at the NEDRC (Includes sustainment and build of virtualized compute and storage and the supporting networks).
- Shared Services for CEDC and CSP Mission Owners
- 24/7/365 Service Desk and Tier 1 System Administration Support for all DC2HS environments with on-call reach out to tier 2 and 3
- Co-Location of legacy systems within CEDCs

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The Transition and Integration IPT is responsible for consolidating multiple Navy Information Systems into approved Component Enterprise Data Centers (CEDC), Commercial Cloud, or other Navy approved hosting environments.

- Mission Owner (MO) information systems are funded by different sponsors to consolidate applications into an approved hosting location.

**NIWC Atlantic Role**
- Virtualize existing DON information systems
- Improve the Navy’s cyber security posture by reducing the risk footprint from many system owner operated data centers to a few enterprise data centers
- Reduce personnel costs, decrease number of personnel required to operate legacy data centers
- Increase Navy footprint within the cloud
- Collaborate with Mission Owners through an Integration Documentation phase to develop documents and architecture drawings to support migration and cyber security needs of the systems.

**Projects**
- MO IL4 Migrations in Cloud
- MO IL5 Migrations in Cloud
- AWS Integration Automation
Manpower, Personnel, Training & Education (MPT&E) Division

Description

Operational Relevance
- Sustaining and modernizing Navy and MyNavy Human Resources (HR) legacy software systems with a focus on MyNavy HR Transformation to migrate over 200 legacy systems to a modern COTS solution and architecture. The Navy’s consolidation of over 90 Navy Help Desks (Navy Enterprise Service Desk) is officially transitioning to the MPT&E Division on 1 Oct 2019.

Total Gov’t ~204
Total Contractors ~500

MPT&E Division Head
Mark Krause

Sea Warrior PMW 240 IPT
Enterprise Systems and Services PMW 250 IPT
The PMW 240 IPT provides support to PMW 240 for MyNavy HR transformation and legacy systems. Support includes sustainment, transformation, and modernization of more than 40 MyNavy HR systems that support the sailor through career and life events.

Operational Relevance

- Enables improved service delivery to our Sailors, their families, and the Fleet.

Total Gov’t ~153 (MF & NWCF)
Total Contractors ~350
Enterprise Systems & Services PMW 250 IPT

Description
- The Enterprise Systems & Services PMW 250 IPT provides system/software engineering, systems security engineering, RMF, acquisition, and full life cycle support.

Operational Relevance
- Work is aligned with NAVWAR Core Mission Areas, directly supports Naval Forces in Information Dominance achievement and are planned for Naval operations.

Total Gov’t ~ 53

E2S PMW 250 IPT Lead

- Department of the Navy (DON) Tasking, Records, and Consolidated Knowledge Enterprise Repository (TRACKER)
- Naval Justice Information System (NJIS)
- Risk Management Information (RMI)
- Talent Management System (TMS)
- Joint Air Logistics Information System (JALIS)
- Navy Enterprise Service Desk (NESD)
- PEO EIS Engineering Support

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Enterprise Business Solutions Division

Description
- Provides Engineering, Cybersecurity & Program Management support across the System Development Life Cycle to deliver enterprise systems to support the Navy, DoD, and Air National Guard. Major Customers include PMW 205, PMW 220, PMS 444, Command Navy Reserve Forces Command, NAVSUP, ASN (RDA), Navy IG, Navy History and Heritage Command, Air National Guard, NAVSEA, and the Navy War College.

Operational Relevance
- Enabling the Navy's move toward business transparency and accountability across its major System Commands: NAVAIR, NAVWAR, NAVSUP, and NAVSEA while significantly reducing costs.

EBS Division Head
Jim Barr

Navy and Federal Networks & Systems IPT
Christina LaRussa-Martin

Acquisition Logistics and Personnel Systems IPT
Daniel Cohen

NAVSEA Business Systems
Jim Barr

Total Gov't ~ 119
Total Contractors ~ 24
Total Military ~ 0

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Navy and Federal Networks & Systems IPT

**Description**
- Provides Engineering, Cybersecurity, Logistics, Configuration/Change Management & Program Management support across the System Development Life Cycle to support naval and federal networks and systems.

**Operational Relevance**
- Improve the performance of our enterprise networks to Achieve High Velocity Outcomes.
- Supports auditability and Navy resource planning.

Total Gov’t ~ 59
Total Contractors ~ 6
Total Military ~ 0

NFNS IPT Lead
Christina LaRussa-Martin

Naval War College
PMW 220/ePS
PMW 205/NMCI
OPNAV N9I

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Description
- Nine projects in support of Acquisition, Supply Chain, Personnel, Financial and Maintenance information systems.

Operational Relevance
- Provides information/metrics for Navy Reserve Ops, Naval History Public Website and Naval Curator Archive & Museum Support, Shipboard Logistics, Navy Cash, quality of life, and Naval Aircraft Interfaces. ASN (RD&A) workforce and program management support tools. Supports ANG order writing.

Total Gov’t ~ 34
Total Contractors ~ 10
Total Military ~ 0

ALPS IPT Lead
Daniel Cohen

Navy Cash (NAVSUP N4)
NRDW (Navy Reserve Cmd)
NHHC
LASS (NAVSUP N62)
eDACM (ASN RD&A)
RDAIS (ASN RD&A)
SMART Aircraft (NAVAIR)
AROWS (Air National Guard)
NIGHTS (Navy IG)
Supports PMS 444 with the planning, acquisition, delivery and life cycle sustainment of NMMES-TR, the replacement shore maritime maintenance information technology solution that will enable the execution of ship maintenance and repair for the naval shipyards, intermediate maintenance facilities, regional maintenance centers, and other industrial activities worldwide. Supports NAVSEA PMO-IT in management of NMMES legacy applications.

Operational Relevance

- Supports Chief of Naval Operations depot level and Fleet intermediate level availabilities of aircraft carriers, submarines, and ships to meet national mission objectives.

**Description**

**Operational Relevance**

- Supports Chief of Naval Operations depot level and Fleet intermediate level availabilities of aircraft carriers, submarines, and ships to meet national mission objectives.

**Total Gov’t ~ 25**

**Total Contractors ~ 8**

**Total Military ~ 0**

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Description

- IS Division provides Engineering & Program Management services. Major customers include the Defense Information Systems Agency (DISA) Gateway Program Office and Teleport Program Office (TPO), Defense Intelligence Agency (DIA), US Army - Engineering Research & Development Center (ERDC), PEO EIS and NAVIFOR.

Operational Relevance

- Provide systems engineering, acquisition, and life cycle support to DISA and Joint Warfighters through the R&D, Test & Accreditation (T&A), production, fielding, and sustainment of Satellite Communications and C2 Enterprise Services infrastructure solutions.

Total Gov’t ~ 84
Total Contractors ~ 63

IS Division Head
Brett Huffman

Satellite Communications (SATCOM)

DISA Enterprise Services (DES)

Special Networks
Satellite Communications (SATCOM) IPT

Description
- The SATCOM IPT is responsible for providing engineering and integration support for the development and evolution of the Enterprise Architecture.

Major Accomplishments and Systems
- SATCOM Unified Net-Centric System (SUNS) (48 Sites)
- Enterprise SATCOM Gateway Modem (ESGM) with Management
- Implemented 19 Navy Multi-Band Terminals & 13 Modernization of Enterprise Terminals
- MUOS to Legacy Gateway Component, to DISN, and MUOS Voice gateway
- Supporting Joint SATCOM community/warfighters including ground forces in remote theater locations with current and emerging technologies.
- Services to AFRICOM AOR in support of SOCOM Mission UAV Dissemination Requirements.

Total Gov’t ~ 31
Total Contractors ~ 40

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DISA Enterprise Services (DES) IPT

Description
- Provides engineering, software development, and technical resources to the DoD to enable the “edge user” to pull information from any available source with minimal latency to support net-centric operations. Enables decision-making superiority resulting in increased mission effectiveness and enhanced operational execution.

Operational Relevance
- Established a Joint Service Integration Lab which provides engineering, development, integration, testing, and experimentation of cyber, mobile and network solutions for both enterprise and tactical applications.

Total Gov’t ~ 25
Total Contractors ~ 6

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**DES IPT Lead**

- **DES IPT Tech Lead**
- **Support Staff**
- **DoD Mobility (DMCC)**
- **SCAP**
- **GCCS-J / GCCS-JE**
- **DISA SATCOM Tools**
Special Networks IPT

Description

- JWICS is the DoD Intelligence Community (IC) TOP SECRET/SCI Network component of the Department of Defense Information Enterprise (DoD IE). JWICS supports the real-time dissemination of IC work products and provides unified secure communications for members of the IC.
- The Navy Sensitive Compartmented Information/Compartmented Access Program (SCI/CAP) Program provides support to PEO EIS to determine reference architectures and technical refresh/sustainment.
- HPCMP/DREN provides networking abilities to share cutting edge science and technology, supercomputing, test and evaluation, and acquisition engineering capabilities.

Operational Relevance

- JWICS provides TOP SECRET / SCI communications to the Warfighter, National Command Authority and Federated users.
- Supports Joint Intelligence communications and operations in accordance with Director National Intelligence (DNI) Instructions.

Total Gov’t ~ 27
Total Contractors ~ 15

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Serve our Nation by delivering information warfare solutions that protect national security.

WIN THE INFORMATION WAR.

NIWC Atlantic is part of the Naval Research & Development Establishment (NR&DE)

Glassdoor: https://www.glassdoor.com/Overview/Working-at-SPAWAR-Systems-Center-Atlantic-EI_IE638508.11,41.htm
NAVWAR Contract Directorate Office: https://e-commerce.sscno.nmci.navy.mil

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