



**Program Executive Office
Command, Control, Communications,
Computers and Intelligence (PEO C4I)**

**PMW 790 Shore And Expeditionary
Integration Program Office**
NDIA Briefing

**27 October 2015
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Statement A: Approved for public release; distribution is unlimited (21 OCTOBER 2014).

**Information Dominance
Anytime, Anywhere...**





Outline

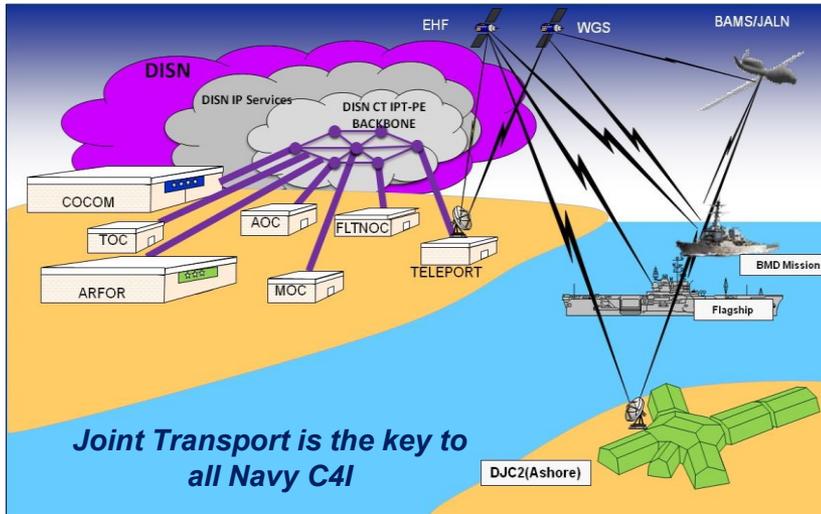


- ➔ • PMW 790 Overview, What We Do...
- Major Programs and Projects
- Challenges
 - Shore Environment
 - Expeditionary
 - Science and Technology (S&T)
- Small Business Engagements
- Future Solicitations



We Connect

Providing assured connectivity between tactical forces and higher commands



STACC connecting Fleet, MOCs, Joint and Expeditionary



Support for Operation Tomodachi



Demonstrated by:

- ✓ **Global Shore C2 Connectivity:** Shore Tactical Assured Command & Control (STACC) program provides assured communications for critical Navy and Joint partners
- ✓ **COOP Contingency:** Providing connectivity during failover
- ✓ **Expeditionary C2:** Flexible network and communications configurations to support full range of military operations
- ✓ **Messaging:** Strategic and Tactical

20+ Major Shore Sites

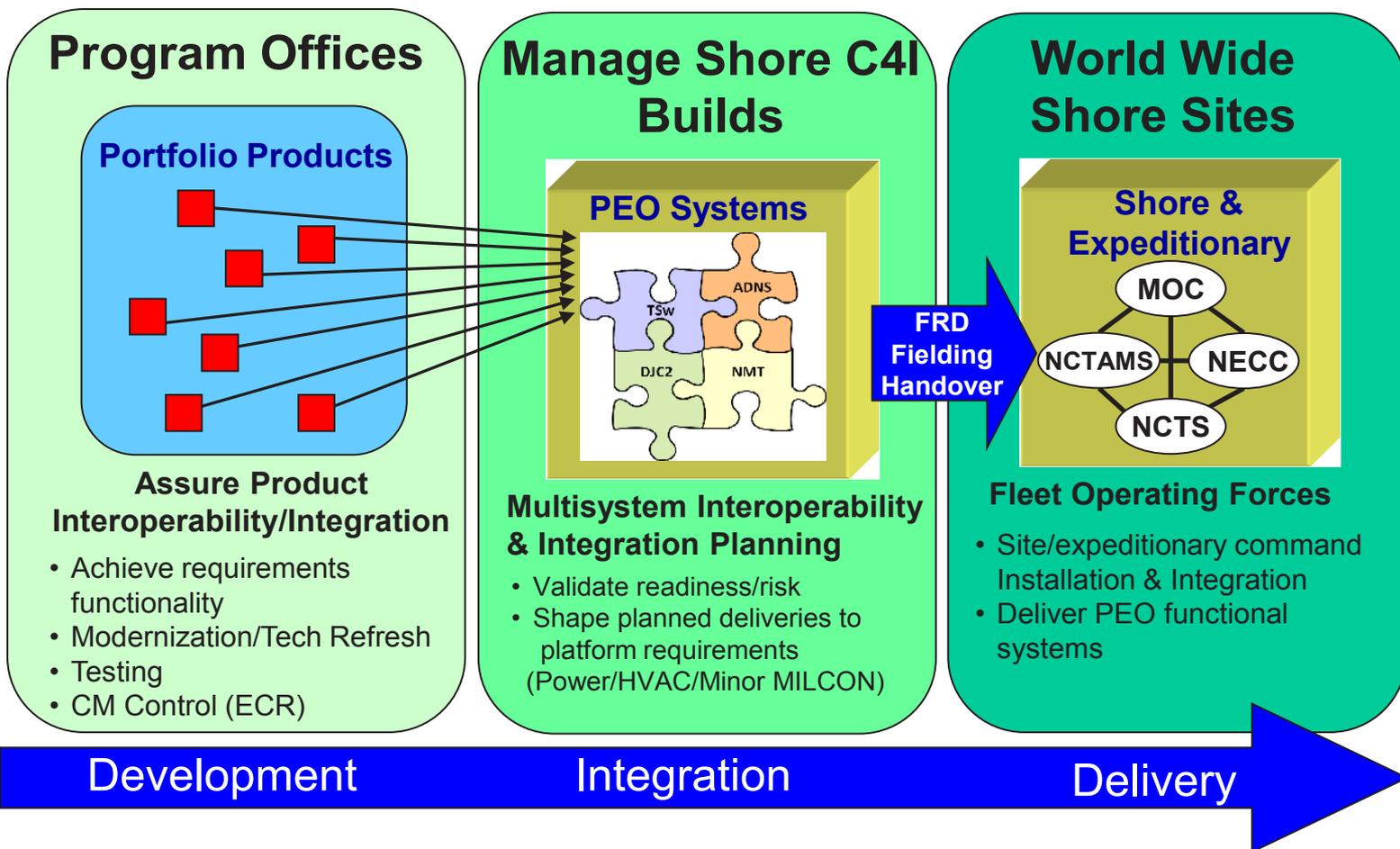
NCTAMS (2) NCTS (5) MOCs (9)
DOD Gateway (7)

12 Expeditionary Commands



We Integrate

Fielding aligned and integrated C4I solutions and capabilities for shore and expeditionary forces



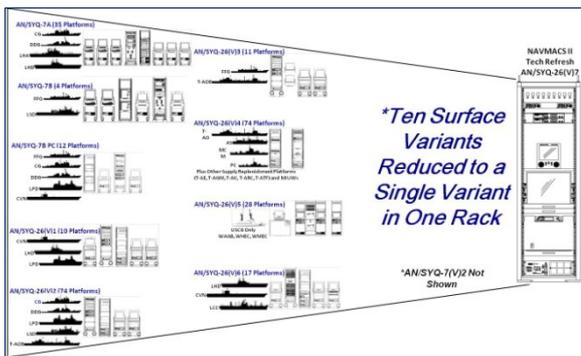


We Support

Ensuring cradle-to-grave shore and expeditionary C4I capabilities are fully supported and cost effective

Accomplished through:

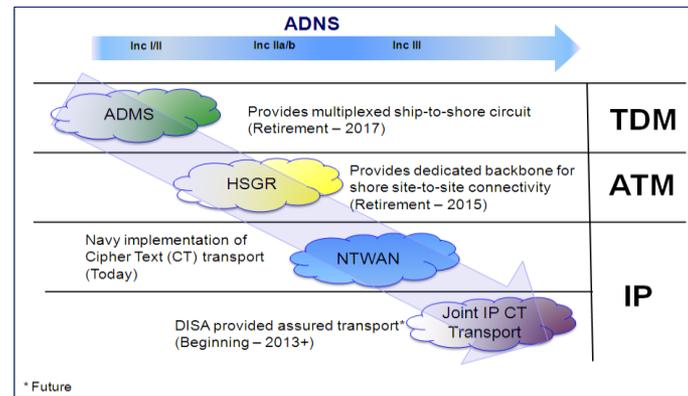
- ✓ **Information Assurance:** Compliance, Certification, Type Accreditation, IAVM
- ✓ **Integrated Logistics Support (ILS):** Technical Support, Help Desk, Training, Spares, Technical Publications, Warranties
- ✓ **Modernization:** Tech Insertion/Tech Refresh, SWAP Reduction, Enhanced Bandwidth



NAVMACS support multiple variants while migrating to single variant



Flexible, deployable C2 capabilities



STACC support on TDM and ATM while migrating to IP



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Portfolio Overview

Shore Command Systems & Integration

1. Shore Tactical Assured C2 (STACC) - ACAT IV(M)
2. Maritime Operations Center (MOC) - Project



Joint Communications Systems

3. Messaging (C2OIX, NC3) - Project
4. Telephony - Project
5. Joint (UHF) MILSATCOM Networks Integrated (JMINI) - ACAT IV(T)



Expeditionary Systems and Integration

6. Deployable Joint Command and Control (DJC2) - ACAT IAC Inactive
7. Navy Expeditionary C4I - Project



Platform Integration

8. Site Integration - Multiple Projects
9. Design Center





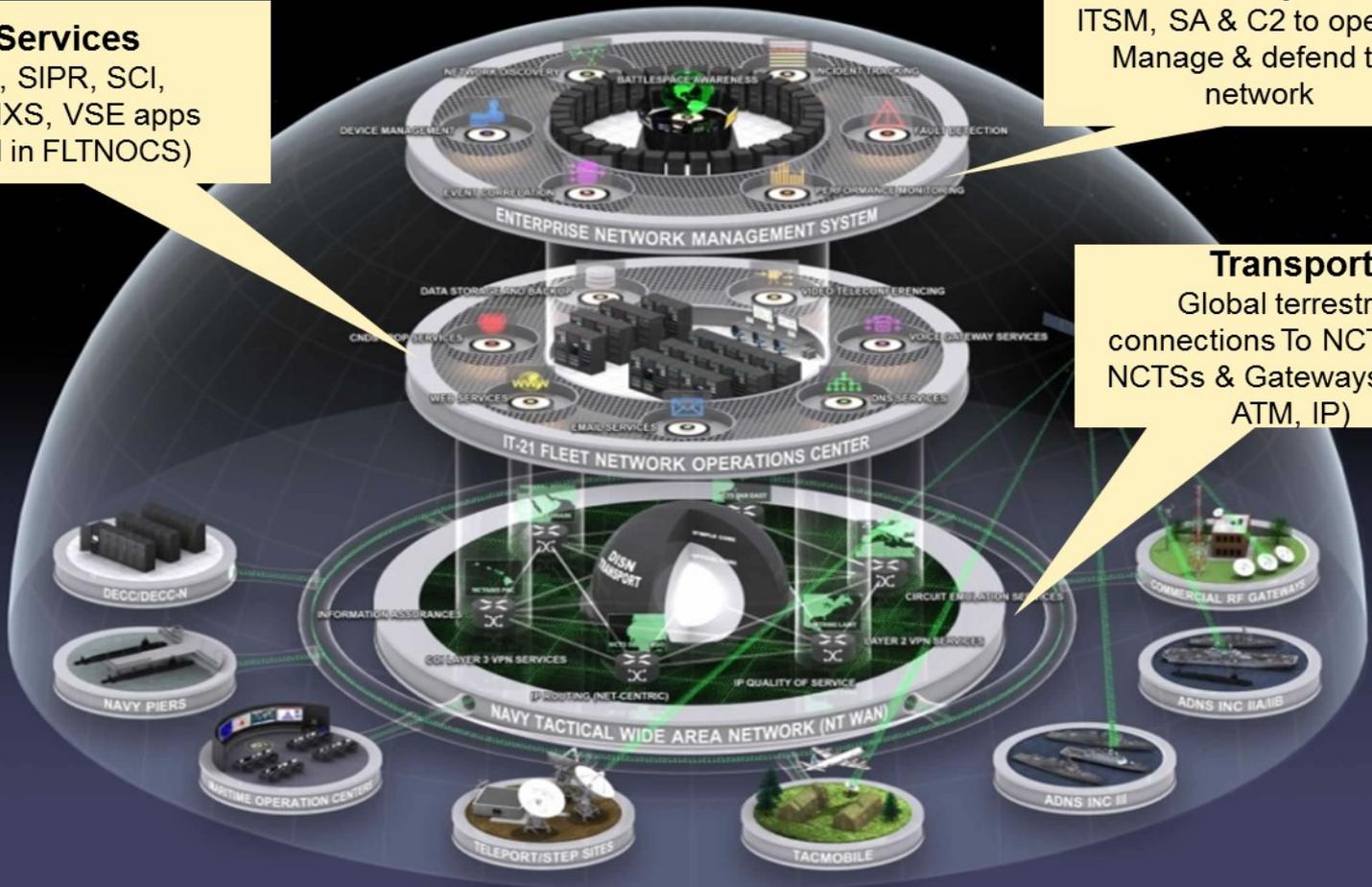
Shore Tactical Assured C2 (STACC) Foundation for C4I Services



IP Services
NIPR, SIPR, SCI,
CENTRIXS, VSE apps
(hosted in FLTNOCS)

NetOps
ITSM, SA & C2 to operate,
Manage & defend the
network

Transport
Global terrestrial
connections To NCTAMSSs,
NCTSs & Gateways (TDM,
ATM, IP)





Managing the Tactical Network

Enterprise Network Management System (ENMS)

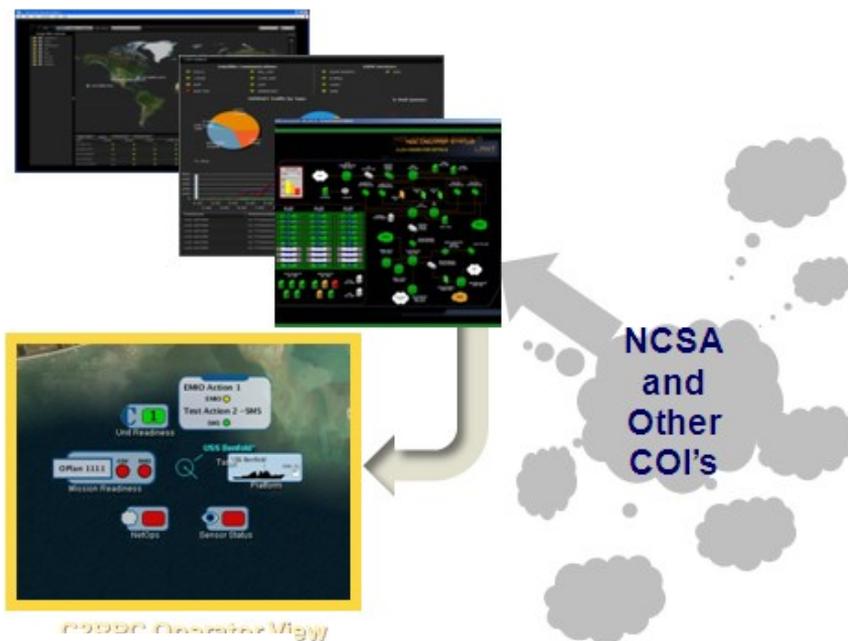


Monitor/Manage capability of the shore network infrastructure with end-to-end visibility of IT-21 Navy Shore C4I systems and services using ITIL/ITSM framework and CM to provide:

- Predictive/Preventive Network Management
- Real Time Service Incident detection
- Performance trending and event tracking
- Automated Ticket Management System (TMS)
- Predictive Root Cause Analysis (RCA)
- Feeds MTC2 for CDRs SA

Delivering ENMS 3.0:

- Incident, Problem, Knowledge, & CM ★ New
- Event and Ticket Management ★ Enhanced
- Hosted in FLTNOG
- Sites to receive BMC Tech Refresh:
 - PAC (Completed-FY14), LANT (Completed-FY14)
 - 2 installs planned for FY16



**Fielding to Fleet NOCs
to be completed by
Q3 FY16**

Real Time Situational Awareness of the IT-21 Network



STACC is the IP Service Provider

FLTNOG 2.2 to 2.5 Enhancements

Navy-unique NIPR/SIPR/Web/Email Services & Other C2 apps for Afloat & Ashore users

Critical Core FLTNOG Services

- *Email Store and Forward (SMTP)*
- *Web (HTTP, HTTPS), Web cache*
- *NIPRNet, SIPRNet Access*
- *Domain Name Service (DNS)*
- *Local Email – Exchange*
- *Automated Logging (Syslog)*
- *Local High Density Storage (NAS)*
- *Local Backup and Restoral*
- *Global Backup and Restoral*
- *Failover/COOP*
- *Patch Remediation* **Enhanced**
- *Storage Area Network upgrade* **Enhanced**
- *Global AAA* **New**
- *Network Virtualization* **New**
- *Data recovery update* **New**
- *Quality of Service* **New**
- *Enhanced NetOps Services* **New**

Planned FLTNOG Services to be hosted

- *CHAT*
- *Full Motion Video*
- *Widget Storefront*
- *MSC-ANOC*
- *C2OIX - Command and Control Information Exchange (C2OIX)*

Virtualization of the FLTNOG serves as the foundation to provide Infrastructure as a Service (IaaS) which results in increased “hosting” capabilities and decreases CODB for many POR’s

Final Upgrades to be completed by Jan ‘16



Virtual Secure Enclave

- Virtual Secure Enclave (VSE)
 - Application Service Point – *NCTAMS/NCTS (4 NOCs + NCTS FE)*
 - Client node – *Major C2 sites (MOCs, CTFs, JTFs, etc.)*
 - Any workstation able to use Citrix plug-in (i.e. don't need new clients)
 - Controlled interface with the outside world
 - Existing CDS tools used as cross enclave guards (e.g. RadMer)
 - US Only SECRET domain
 - Protected Transport
- Hardened enclave designed for Assured C2 in a Disconnected, Intermittent, Limited (DIL) environment
- VSE 3.0 Installations
 - 3 installs in FY16
- Thin Client Workstation Installations
 - 3 installs in FY16
- Utilizing VSE to support USS Blue Ridge (LCC 19) EDSRA
 - Yokosuka VSE 3.0 Upgrade

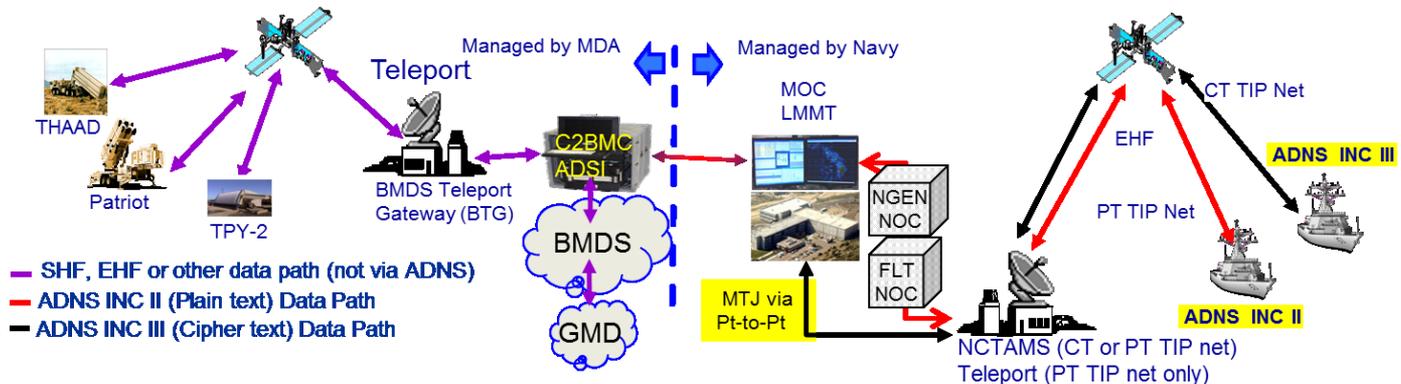
Baseline System Demonstrated and Operational in PACOM AOR



MOC in the Middle (MITM)

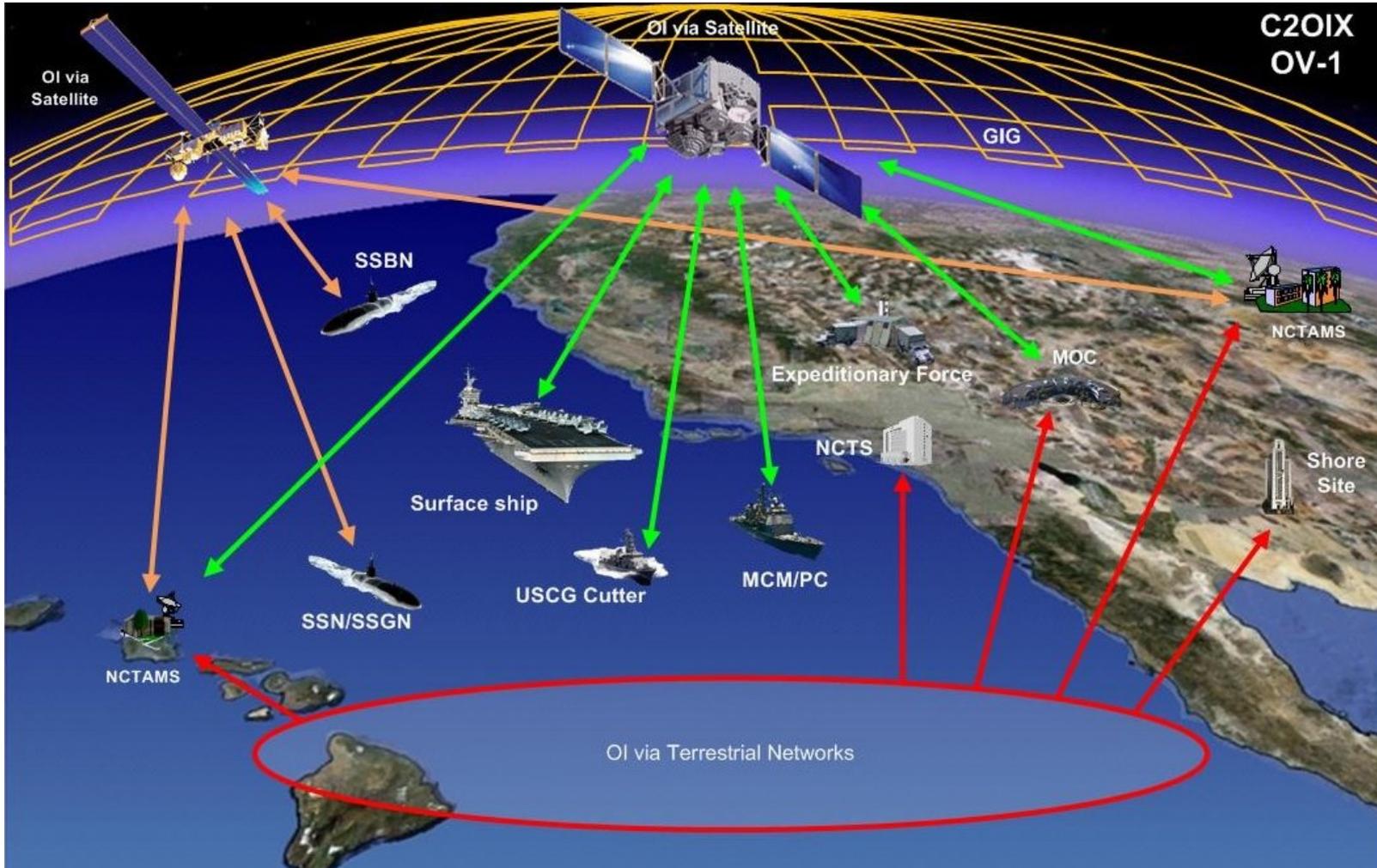
- MOC In the Middle (MITM) along with PMW 150 LMMT, expands the MOC's role from “monitor” to “monitor and manage” for Integrated Air Ballistic Missile Defense (IAMD)/Ballistic Missile Defense (BMD) track data exchange
 - Enables routing of Navy BMD ship ADNS Inc. III CT traffic over the NTWAN to MOC LMMTs and then on to the BMD Communications System for JFCC IAMD
 - Deploying MITM to 5 MOCs--enables advanced communications capabilities between Navy BMD platforms, NCTAMS, Fleet NOCs, MOCs, C2BMC and BMDS elements
 - **MITM operational now; installation of firewalls to address security issues recently completed**

Current: MOC in the Middle Managing Navy BMD data interface to C2BMC



Navy Messaging Modernization

C2OIX Project - Command and Control Official Information Exchange



- Facilitates Organizational Messaging between surface ships, submarines, shore and tactical mobile units by leveraging existing RF paths and shore enterprise networks
- Provides Commanders with the capability to exchange C2 official information while afloat or embarked



Reduction of Afloat Systems NAVMACS II AN/SYQ-26(V)7



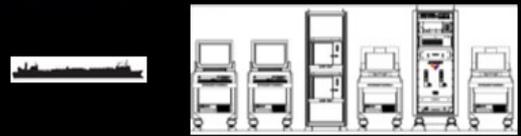
1 Single-rack Variant eliminates 10 Multi-rack Variants



AN/SYQ-7A (22 Platforms)



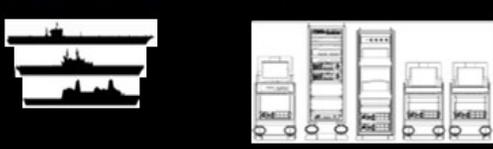
AN/SYQ-7B (2 Platforms)



AN/SYQ-7B PC (6 Platforms)



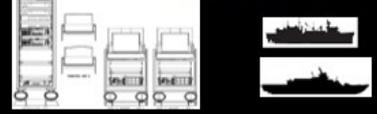
AN/SYQ-26(V)1 (10 Platforms)



AN/SYQ-26(V)2 (57 Platforms)



AN/SYQ-26(V)3 (4 Platforms)



AN/SYQ-26(V)4 (38 Platforms)



AN/SYQ-26(V)5 (24 Platforms)



AN/SYQ-26(V)6 (12 Platforms)



AN/SYQ-26(V)7 (32 Platforms)

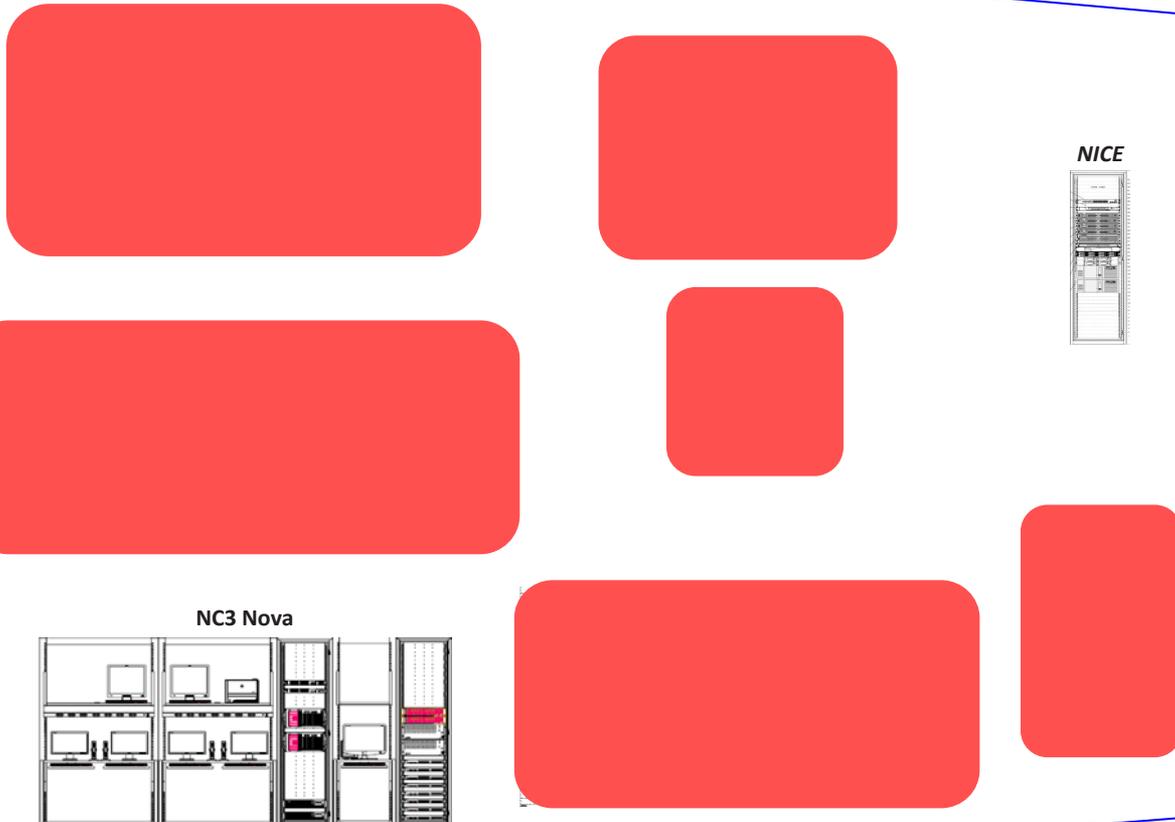


- Total Navy Reductions (Afloat):
 - HVAC Savings.....15.88 BTUh/yr
 - Power Savings.....4.6M kWh/yr
 - Weight Savings.....108.72 tons
 - Modern Operating System
 - Graphical User interface (GUI)



Shore Messaging Modernization

Legacy NCTAMS LANT Messaging Systems



Tech Refresh Shore Messaging Systems

C2OIX Applications Hosted on FLTNOG

UARNOC and PRNOC

- C2OIX as a service hosted in a Virtualized FLTNOG environment on NIPR & SIPR enclaves

C2OIX System

NCTAMS LANT and NCTAMS PAC

- TS C2OIX System hosting FMX and CUDIXS



NC3 Nova (EAM Only)

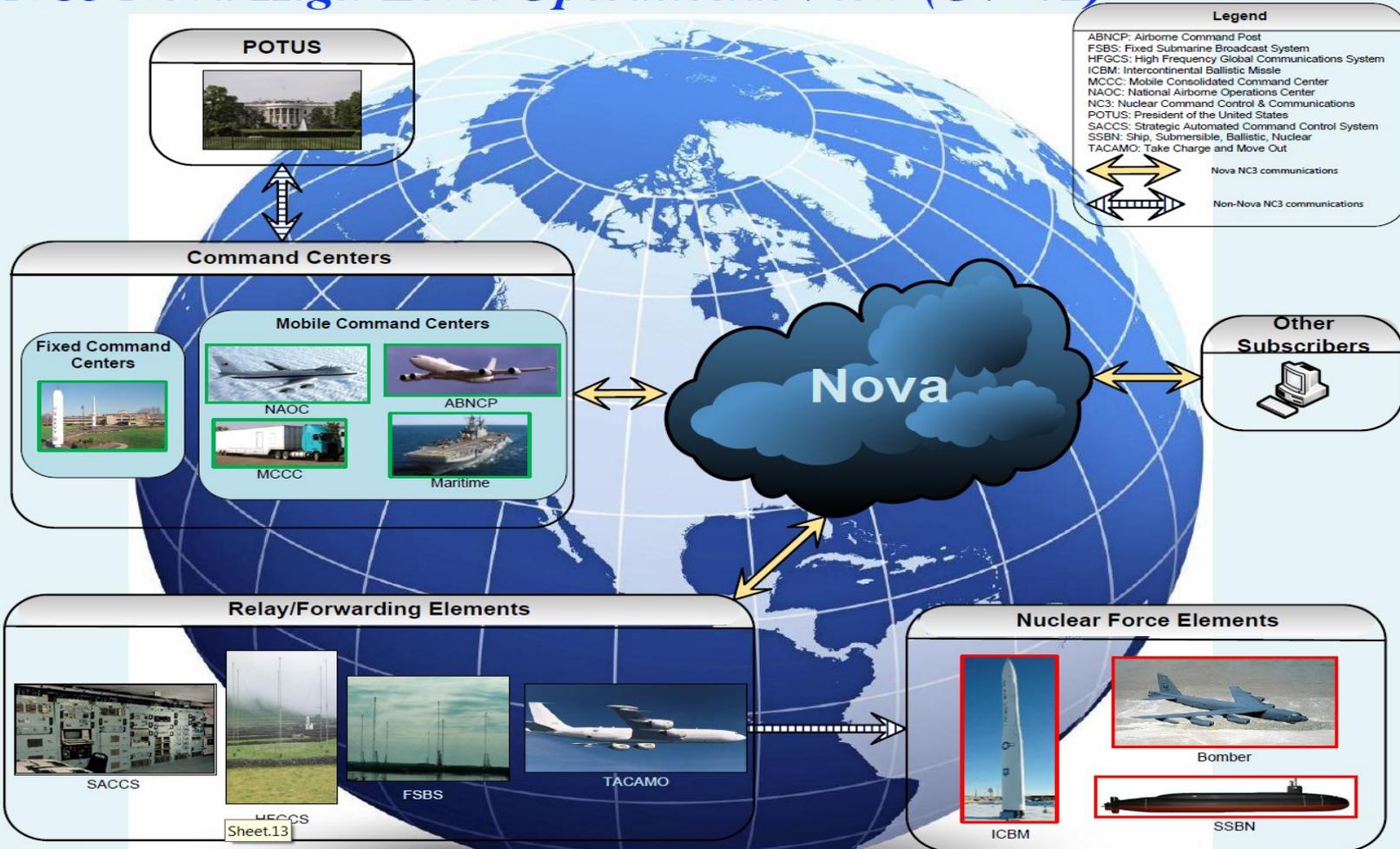


Reduction of Shore Messaging Systems, Reduced Cost and Complexity



NC3 OV-1

NC3 Nova High-Level Operational View (OV-01)



Sheet.13

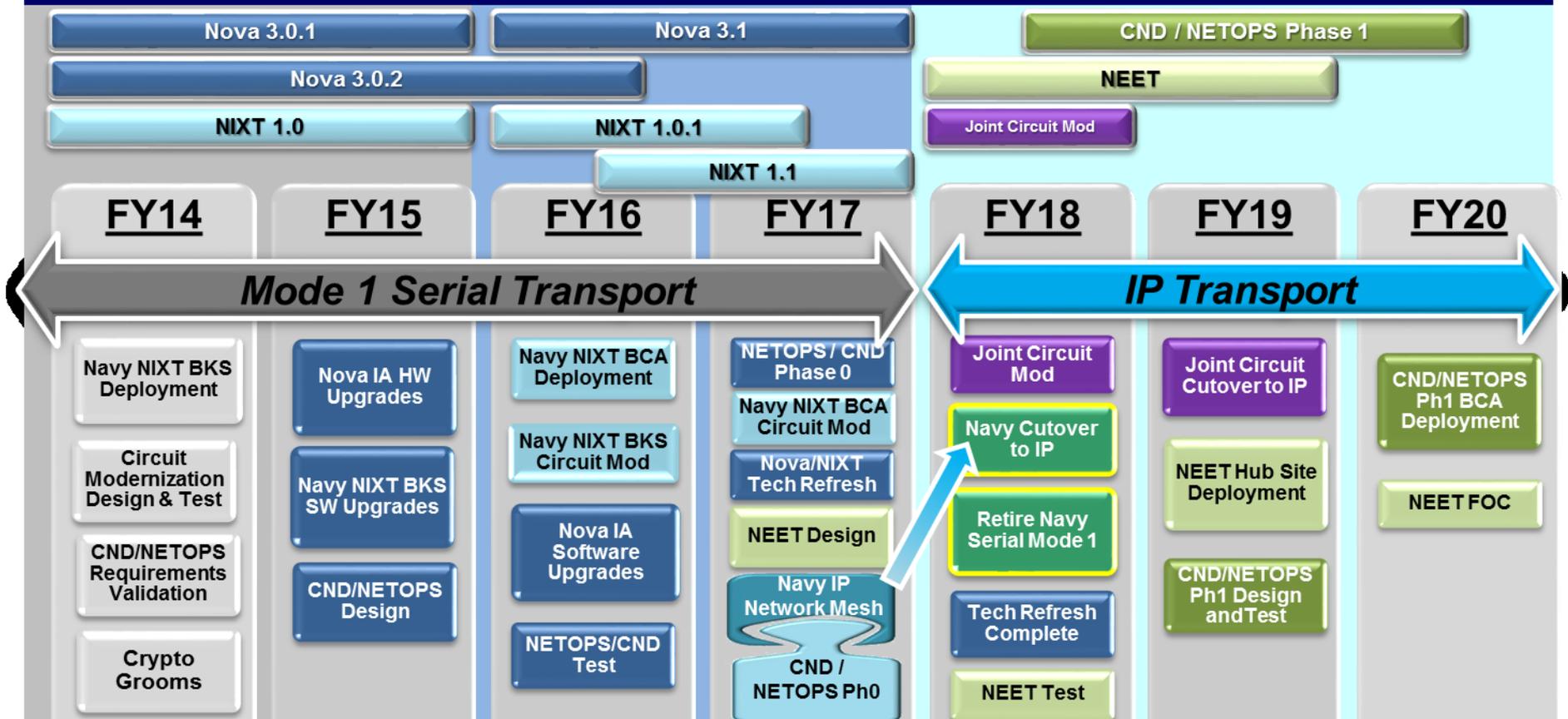


Nova (NC3) Modernization Strategy



NC3 Circuit Transition

V.6 - 6/04/15



NETOPS and Situational Awareness

Current

- Local SA only
- Manual Reporting

Interim

- Phase 0
 - Core Nova Sites
 - EAM Backbone CND/SA

End State

- Phase 1
 - NC3 Situational Awareness / CND
 - Navy and Joint Sites

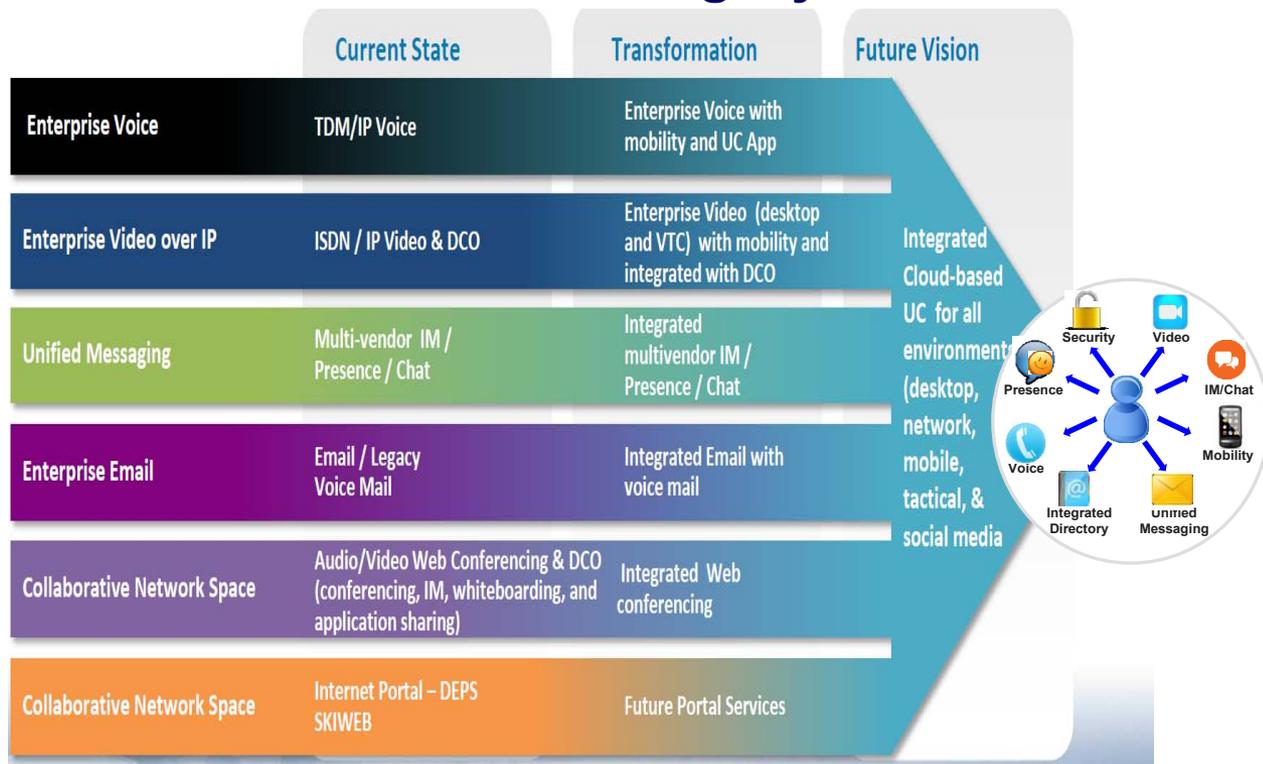


Unified Capabilities (UC)

“The integration of voice, video, and/or data services delivered ubiquitously across an interoperable, secure, and highly available IP network infrastructure, independent of technology, to provide increased mission effectiveness to the warfighter” (DISA definition)

Transition from Legacy to UC

- **PMW 790 is working with DON CIO, PMW 205, SPAWAR 5.0, and USMC to enable UC**
 - **Developing UC IP**
- **Executing IP Trunking capability**
- **Scope challenges**
 - **Cyber Security**
 - **Quality of Service**
 - **Training and Manpower**
 - **Rate of Technology change**



Ongoing Partnership with EIS, SPAWAR and USMC HQ



Joint UHF MILSATCOM Network Integrated Control System (JMINI CS)



Facilitating Efficient Satellite Communications for the Warfighter

JMINI CS Mission

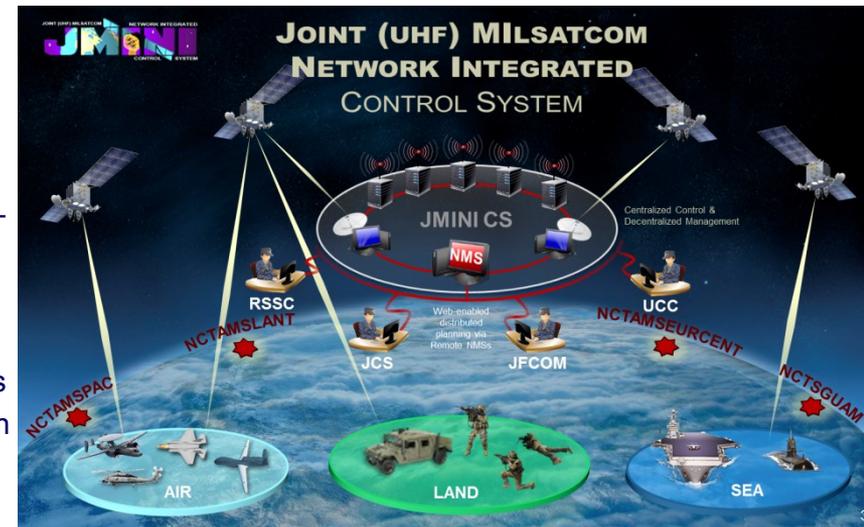
Provide integrated, dynamic, and centralized control of non-processed UHF MILSATCOM 5/25 kHz DAMA and DASA channels to maximize existing resources, and provide decentralized web-based management of those resources for use as a situational awareness tool

Capabilities:

- **System supports full UFO constellation:**
 - 76 DAMA channels per coverage area
 - Mix of 5 kHz and 25 kHz DAMA and DASA channels (MILSTD-188-183A)
- **Network Management System (NMS) supports remote access to communications planning and management**
 - Extends NMS capability to JCS, COCOMs, GSSC, and RSSCs
 - Enables web-based remote planning and management through the SIPRNet

Components:

- **Radio Frequency Distribution System (RFDS)**
- **Channel Controller (CC)**
- **Resource Controller (RC)**
- **Network Management System (NMS)**



**Platforms — JMINI Control Stations at 4 sites:
NCTAMS LANT, NCTAMS PAC, NCTS Guam,
NCTS Naples**

Enables reliable communications for Warfighters and U.S allies in tactical and training environments, and optimizes access to entire UHF MILSATCOM spectrum



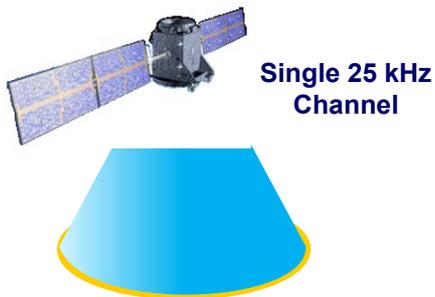
IW CS Capability/Operational Gains



Recent Stand-up of IW capability

- **Integrated Waveform Control System provides both a capacity and capability gain for the UHF SATCOM community – cutover completed April '15**
- **Operational gains include:**
 - Improved UHF system efficiency (more accesses)
 - Simplified terminal operation
 - Doubles the average capacity throughput over one – 25 kHz UHF SATCOM channel

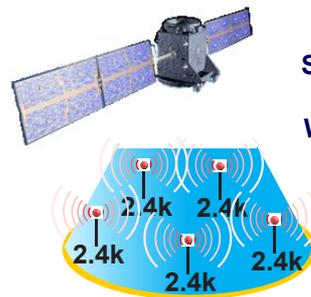
Dedicated Channel



Single 25 kHz Channel

A 25 kHz channel typically supports **one non-DAMA network**

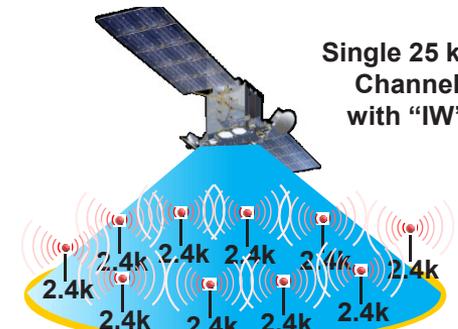
Today's DAMA



Single 25 kHz Channel With Today's DAMA

A 25 kHz DAMA Channel supports up to **5 simultaneous 2.4k Voice networks**

Integrated Waveform (IW)



Single 25 kHz Channel with "IW"

A 25 kHz IW Channel supports an average of **10 simultaneous 2.4k Voice networks**

DAMA – Demand-Assigned Multiple Access



Deployable Joint Command & Control (DJC2)



Fully Integrated Joint System enabling JTF Ops for HA/DR, Drug Interdiction, Homeland Security Defense, and Overseas Contingency Ops

DJC2 Mission

Field an integrated C2 HQ system to enable a commander to set up a self-contained, self-powered, network-enabled JTF HQ anywhere in the world within 6 - 24 hours of arrival

- 3 configurations: Rapid Response Kit (RRK), Early Entry (EE), Core
- Expandable with addition of 60-seat Core Expansion Kits (CEK)
- 5 networks
- Secure Wireless Networking with extension of services
- IP Convergence Suite
- IP-JWICS / DODIIS
- GCCS-J
- Robust 8 Mb comms (GBS, TACSAT)
- Defense Connect Online (DCO) / VTC / Collaboration Tools
- Onsite support manning
- 24/6 Help Desk, Support Portal, training, tech manuals, spares



Design is fully self-supporting, with its own power, environmental control, and SATCOM — augmented with an autonomous rapid response capability

Key Operational Stakeholders

POR DJC2 owners:

- U.S. Pacific Command (PACOM) (2)
 - III Marine Expeditionary Force (III MEF)
- U.S. European Command (EUCOM)
- U.S. Africa Command (AFRICOM)
- U.S. Southern Command (SOUTHCOM)
- Core 2 – NAVEUR (Former SOUTHCOM/U.S. Army South)

Non-POR DJC2 owners:

- U.S. Naval Forces Central Command (NAVCENT)
- Naval Mine and Anti-Submarine Warfare Command (NMAWC)
- Marine Corps Forces Central Command (MARCENT)
- Naval Expeditionary Combat Command (NECC)
- Marine Corps Systems Command Expeditionary C2 Suite (ECCS)

Resource Sponsor: N2/N6



Technology Insertion / Refresh

Funded across FYDP

Tech Insertion (RDT&E, OPN)



Energy Efficiency

Deliverable: Prototype Smart Power Grid
Benefit: Saves cost/energy (FY2013)



Remote Patch Management

Deliverable: Infrastructure that allows remote SW patching by Help Desk
Benefit: Reduces manpower (FY2015)



Next Generation Rapid Response Kit

Deliverable: Smaller, lighter, more capable kit
Benefit: Enhances capability (FY2014 - 2016)



Joint Information Environment (JIE) and Multinational Information Sharing

Deliverable: JIE-aligned architecture changes
Benefit: Supports Joint initiatives, Joint interoperability (FY2015 - 2017)

DJC2 working closely with Joint Warfighters to identify / provide technologies they need ...

Joint Vision 2020

Tech Refresh (O&MN, OPN)



Laptop Refresh (FY2015 - 2016)

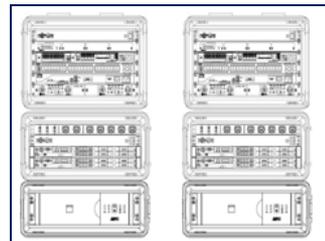
Benefits: Solve obsolescence, maintain IA security posture, upgrade capabilities



SATCOM Upgrade (FY2013 - 2015)



Infrastructure Upgrade (FY2014)



IT Upgrade (FY2014 - 2015)

TI/TR Overview

- TI funded to insert high priority, mature new technologies into system to meet emergent Warfighter needs
- TR funded to address system/component obsolescence
- TI/TR fielded in spirals
- Includes participation in COCOMs' JCTDs



Navy Expeditionary Support

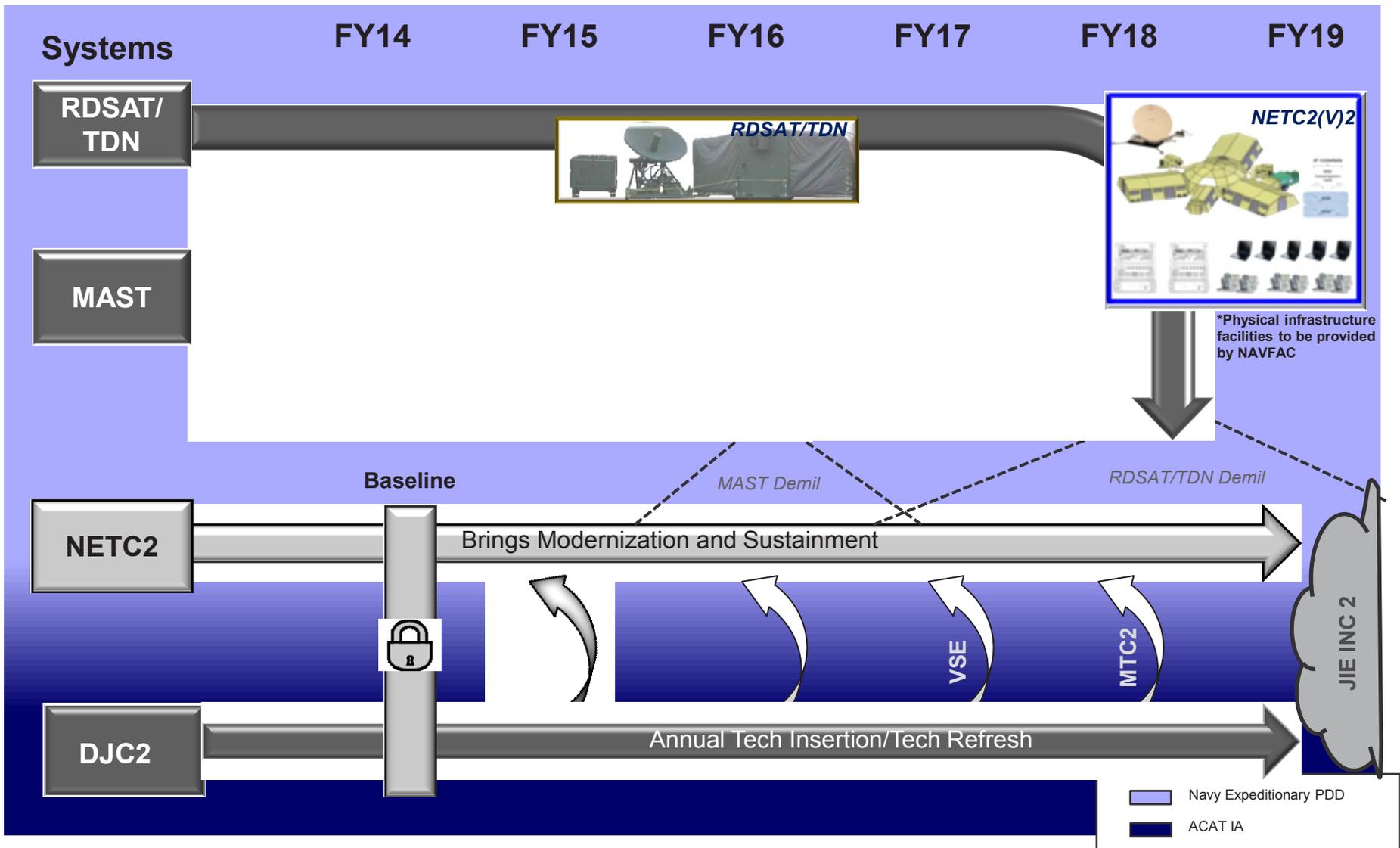


Pillar	Description	NECC	NBG	EOD TECH DIV	NMAWC	NSW
Large Scale Communication Systems (LSCS) 	<ul style="list-style-type: none"> Currently provides C2 solutions via the following systems: MAST, NETC2, ESCC, and RDSAT/TDN. Will converge LSCS to the modular and scalable NETC2 to support CNO's vision of reduction of variance and to drive down sustainment costs. Final demil: MAST in FY16 and RDSAT/TDN in FY20. 					
TOA Management/ SYSCOM Managed TOA 	<ul style="list-style-type: none"> Configures and maintains TOA listing, and assists in development of annual buy plan. Maintains C4I equipment in support of System Command (SYSCOM) Managed Tables of Allowance (TOAs) (SMT) for 2 Maritime Prepositioning Ship Squadron (MPSRON) Battalions (P25) and 2 MPSRON Regiments (P29). 					
Blue Force Tracker (BFT) 	<ul style="list-style-type: none"> Provides logistics documentation, training, help desk services, program management support, configuration management coordination, and equipment assessment for joint BFT/Force XXI Battle Command Brigade and Below (FBCB2) product line in Navy Vehicles and Combatant Craft. 					
Vehicles and Boat Integration Support 	<ul style="list-style-type: none"> Coordinates and procures Government Furnished Equipment (GFE) and coordinates Installation and Integration (I&I) efforts for C4I equipment on vehicles. The project provides consultation to NAVSEA Carderock on C4I solution sets for boats. 					
Portable Radio Program 	<ul style="list-style-type: none"> Provides handheld, man pack, vehicular and base station variants fulfilling HF/VHF/UHF LOS/SATCOM requirements that provide secure and reliable voice and data communications in all environments. Leveraged PRP Project in PMW 170 to gain procurement efficiencies. 					

Scopes C4I Support to Expeditionary Customers and Aligns with DOD Initiatives



Expeditionary LSCS Roadmap





C4I Vehicle & Boat Integration



AN/PRC-152A



UHF/VHF LOS
UHF SATCOM
DAMA

AN/PRC-117G (2 Nets)



SINGGARS
Have Quick 2

SATCOM



VHF RADIO



Radar/Depth Sounder/VHF Radio

FBCB2 (BFT)



Force XXI Battle Command, Bridgae
and below Blue/Red SA

Radio Control/
Intercom System

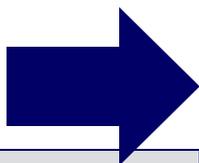


Integrate C4I onto 3,000+ Vehicles at 2 Sites

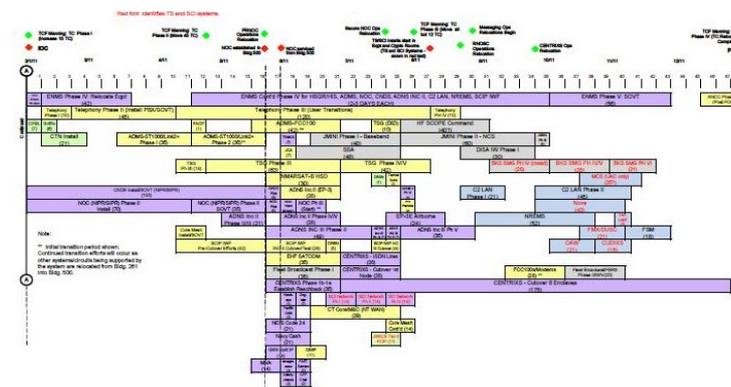


8. Site Integration

- **NCTAMS PAC transition (P-173):**
 - Relocated 102 C4I systems
 - Maintained ops during transition



- **MSC to FLTNOC transition**
 - Relocation of Broadway (ANOC) & Pensacola (BNOC) to UARNOC/PRNOC
 - FY16-17
- **Future MILCON projects**
 - CVW-5 Atsugi to Iwakuni relocation (FY17)
 - Rota, Spain (P-621, FY17)
 - NCTAMS LANT (P-913, FY18)
- **Additional Projects**
 - C7F EDSRA Temp MOC Ashore (FY16-17)
 - UCLASS services at fixed shore sites
 - NOPF Modernization at Whidbey Island, WA and Dam Neck, VA





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Challenges

Shore Environment



- Secure, assured communications is essential at every level (continental U. S. to the forward-deployed warfighter)
 - Warfare is increasingly conducted by networks of platforms, weapons, sensors, and EW systems.
 - C2 of networks poses complex algorithmic and software challenges, particularly with intermittent connectivity, limited data rates, and robustness against network disruption from electronic and physical attack.
- Network Operations (NetOps)
 - Manage and control modes of operation
 - Collect performance data from multiple networks
 - Network risks
 - Mitigation of vulnerabilities arising from new features that make networks more efficient (growing reliance on “trust relationships”)
 - Defeating network reconnaissance and surveillance and countering denial of service
 - Expanded use of wireless networks raises likelihood of network compromise
 - Need next generation Systems Management with automated patch/update management across the enterprise





Challenges

Shore Environment cont.



- Sys-of-Sys integration & enterprise constraints
 - Complex, interdependent systems across many PORs
 - JIE, Cloud, VSE, DCC and other initiatives
- Priority to reduce requirements for SWAP
 - *Need improvements for expanded deployability, flexibility and survivability for broad C2 missions*
- Fiscal realities – need to reduce costs
 - Leveraging commercial capabilities and cost efficiencies in military environment while ensuring reliability, robustness and security of infrastructure, devices and applications.
 - *Need innovative concepts and technologies that offer cost advantages while allowing adaptability and/or rapid refresh technologies that advance system-level performance.*



Innovative Concepts for

- Components
- Hardware
- Firmware
- Software
- Power Systems
- Simplified Porting
- Capabilities against Multiple Platforms



Challenges

Shore Environment cont.

- Trend for increasingly large quantities of tactical data for C2 and ground-based exploitation in contested environments
 - *Need new approaches and technologies to provide survivable, standoff communications that are difficult for adversaries to detect, exploit and counter.*
- Positive Control of the electromagnetic (EM) spectrum
 - EW systems of adversaries becoming increasingly sophisticated
 - *Need system approaches for active and passive EW techniques to counter advanced networked and agile systems with asymmetric capabilities possessed by adversaries by close-in remote sensing coupled with advanced jamming and spoofing.*
- Increasing use of Unmanned vs. Manned Systems
 - Expanding Drone/UAS/UUV and BMD capabilities present integration challenges
- Increased system autonomy
 - Self-organizing network technologies, less people in-the-loop
- Increasing network capacity and scaling in congested RF spectrum
- Man-made and natural electromagnetic interference (EMI) and EMP risks



Challenges

Expeditionary Environment



Biggest challenge: Size

Footprint, Weight, Cube



Other challenges:

- *Secure deployable C2 / Information Assurance (IA)*
- *Interoperability / Commonality of systems*
- *Well-trained operators*
- *Electromagnetic Spectrum Management*
- *Interference on frequencies*
- *Sharing of situational awareness capabilities*
- *Clearances and access*
- *Co-location of Coalition HQ's on U.S. platforms*



New challenge:

Anti-Access Area Denial (A2/AD)
(Expeditionary C2 in a denied environment)



S&T Activities & Gaps

- **Small Business Innovative Researches (SBIRs)**

- Simple Profiler for Official Information Exchange (Phase II Option with Sonalysts)
- NetOps Analytic as Service (NaaS) (Phase II with Intelligent Automation)
- Voice, Video & VTC Cross Domain System (Phase II with Trident in FY16)
- Expeditionary Solid Oxide Fuel Cell (Phase I or II in FY16)

- **Technology Insertion Program for Savings (TIPS)**

- NC3 EAM Enhanced Technology (NEET)

- **SSC PAC (STI)/SSC LANT (NISE)**

- Reduction of SMS HW & SW Footprint – Transiting to NAVMACS 3.3

- **Joint Capabilities Technology Demonstration (JCTD)**

- Unified Command & Control (UC2) – Commercial Solutions for Classified (CSfC)/Agile Virtual Enclaves (AVE)
- Transitioning to STACC in FY17, JIE/MPE

- **PEO C4I 2015 PMW 790 Capability Gaps for S&T**

- Fleet Broadcast Replacement
- Tiered Enterprise Patch Management Solution
- CDS Network Management Services
- NOC & Deployed Convergence/Optimization/Resilient Infrastructure Services
- Multilevel Security (MLS) Voice and VTC
- NetOps SA for Crypto, Communication and Networks Devices
- Deployed Access to Multi-Enclave Cloud
- BW Efficient Data Synchronization
- Tactical Mission Partner Gateway
- JMINI/IW CS Radio Reduction/Replacement
- Messaging Enhancement Capability



Outline



- PMW 790 Overview, What We Do...
- Major Programs and Focus Areas
- Challenges
 - Shore Environment
 - Expeditionary
 - Science and Technology (S&T)
- ➔ • Small Business Engagements
- Future Solicitations



Small Business Engagements



- **PMW 790 Seaport-e Task Order (NS01)**
 - Support Services – Program Management and Systems Engineering
 - Small business set aside
 - \$45M Contract awarded 1 Sept 2014
 - 56 FTEs between prime and industry partners
- **PMW 790 Seaport-e Task Order (NS11)**
 - Support Services - Systems Acquisition, Systems Engineering, Logistics, Installation Management and Shore Integration Design and Planning
 - Small business set aside
 - \$42M Contract awarded 1 Oct 2012
 - 54 FTEs between prime and industry partners



Small Business Engagements



- RedHawk IT Solutions LLC
 - Ancillary equipment IDR follow-on for Navy Expeditionary
 - 8(A) Small business set aside
 - \$2.374M Contract awarded in 2015
- Zibiz Corp
 - H/W, S/W licenses, license renewals, warranty renewal for Navy Expeditionary and STACC
 - 8(A) Small business set aside
 - \$889K Contract awarded in 2015
- Blue Tech Inc.
 - Software Renewal for STACC
 - \$27K Contract awarded 2015
- Intelligent Automation Inc.
 - SBIR Phase II Contract – SANA System Development
 - \$1M Contract awarded 2015



Outline



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Future Solicitations



- Potential Small Business Opportunities
 - 4 hardware/software procurements planned for FY16
 - 2 procurements for Telephony, 2 procurements for Expeditionary
 - Details forthcoming on e-Commerce
 - <https://e-commerce.sscno.nmic.navy.mil>



Summary

- Foundational Program Office with both Product and Platform roles
 - Diverse stakeholder base
 - Responsible for “multi-platform” Shore and Expeditionary domain
- Aligned with today’s Fleet requirements and driving Efficiencies
 - Real Time Situational Awareness of the Tactical Network
 - Enterprise Solutions – NetOps, VSE, Assured Comms, VoSIP, VTCoSIP
 - Equipment & Footprint reductions – Virtualization, Messaging, Expeditionary Convergence and Consolidation
 - Future Technologies – S&T, Experimentation,
- Challenges—increasing trend of interdependency and complexity
 - Robust, secure, efficient technology insertion needed at an affordable price
- Multiple Support Services Task Orders under Seaport-e
 - SB Support Services – awarded October 2012 and August 2014
- Other solicitations forthcoming.
 - Multiple hardware/software procurements for Telephony and Expeditionary
 - Others, TBD...