



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

Command and Control Systems (PMW 150) Overview *NDIA Fall Forum 2021*

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*Deliver threat-based C4I and space capabilities to enable
the fleet to compete, deter and win — tonight*





Mission: *We provide Intuitive, Innovative, and Resilient Command and Control and Tactical Communications Solutions to the Warfighter*

Vision: *Enable Better Decisions Faster*





PMW 150

Command and Control Systems

We provide Intuitive, Innovative, and Resilient Command and Control and Tactical Communications Solutions to the Warfighter

Maritime C2

Maritime C2 division consists of systems (GCCS-M, MTC2, NAOC2) designed to equip Fleet Commanders and their operational assets with the command and control systems they require to accomplish their missions.



Tactical C2

Tactical C2 division (Link 16, C2P, LMMT) is responsible for developing, fielding, and supporting Joint and Coalition tactical data link (TDL) capabilities in accordance with the Joint Tactical Data Enterprise Services Migration Plan (JTMP), the DoD roadmap for TDL implementation.



NILE

NILE cooperative development program has developed the Link 22 (to replace Link 11) networking capability, referred to as the System Network Controller (SNC), and the standards and specifications for the other components of a Link 22 capability.



Defensive C2

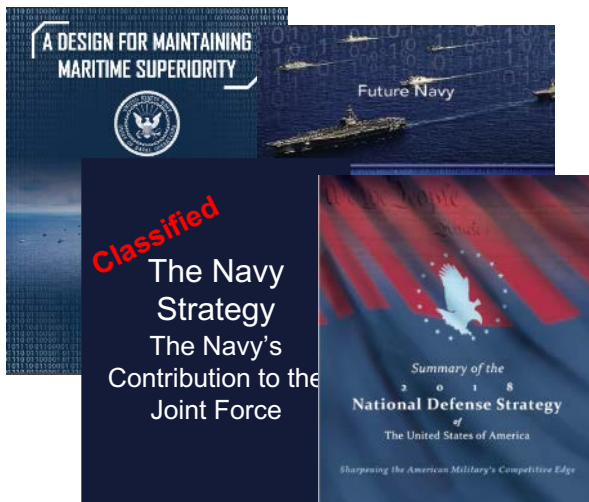
Defensive C2 also known as Joint Project Lead CBRN Information Management / Information Technology (JPL CBRN IM/IT), is responsible for building enterprise solutions to provide the common warning and reporting, hazard prediction, and decision support backbone for the collection, analysis, and dissemination of Chemical, Biological, Radiological, and Nuclear (CBRN) information.



Enable Better Decisions Faster



PMW 150 Lines of Effort



PMW 150 is working to realize the Naval Operational Architecture (NOA) by using the tools and authorities granted to accelerate delivery of needed capabilities, *Enabling Better Decisions Faster.*

GCCS-M and MTC2 are moving from monolithic to containerized, modular architectures, implementing micro-services, developed via DevSecOps processes leveraging common services to accelerate the delivery of Maritime Decision Aids and Battle Management Aids to the Fleet.

ATDLS is working to accelerate Link 16 Crypto Modernization and advanced Tactical Data Link capabilities while modernizing the C4I to Combat System interface and enhancing Link Management capabilities. These new capabilities enable Communications as a Service (CaaS) and are central to building the Naval Tactical Grid (NTG).

MISSION OUTCOMES

Strengthen Naval Power at and from the Sea

Data-Driven Decisions

Logistics Capability Ashore and At Sea

Achieve High Velocity Outcomes

Operational Architecture

Artificial Intelligence & Machine Learning (AI/ML)

Additive Manufacturing

Rebuild Military Readiness

Reform Business Practices

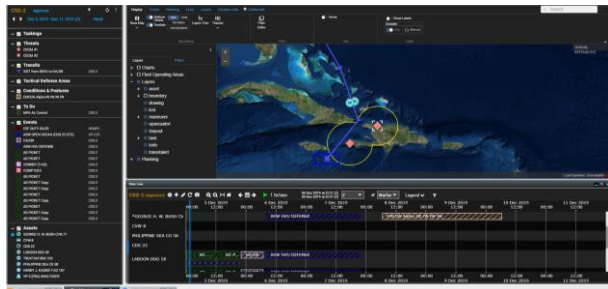
Auditability/Accountability



Automating the Planning Process MTC2 and BMAs



COAs
& Forces Laydown



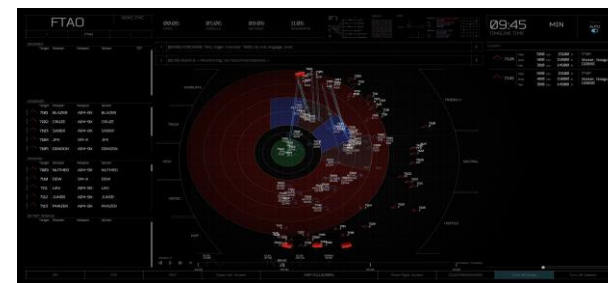
Dynamic COA
Branches and Sequels



Defense
Plans



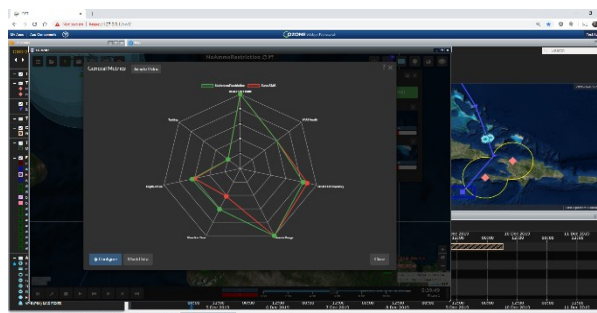
Engagement Analysis



Products and Automated
Updates:

- Multiple COA Comparison
- Comparative Metrics
- Branches and Sequels
- Drill Down into key Metrics
- Automated update/COA back to MTC2 Synch Matrix

Selected COA



COA Comparison

MTC2 working with BMA's from multiple sources with Common Data and API's



Opportunities

- Vehicles
 - C2 MAC Contract (RFI Released, RFP Pending)
 - Multiple OTA Consortia
 - Prize Challenges (as needed)
 - Small Business Innovation Research (SBIR)
 - Cooperative Research and Development Agreements (CRADA)
- Areas of Focus
 - Microservices
 - Automated testing
 - UI/UX Design
 - AI/ML
 - Virtual Training



Questions?



Better Decisions Faster

(What does it mean?)



Give decision makers everything they need to quickly make and execute tactical and operational decisions, all in one place, at the right time, in a way that they can easily comprehend

So that...

They can achieve our Navy and our Nation's strategic goals, deter or defeat our adversaries, and effectively support our allies



Accelerated delivery of required capability that is affordable, integrated and interoperable