Program Update

NAVSEA Cybersecurity Industry Day

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RDMIL Brian K. Antonio
PEO LCS
Littoral Combat Ship

Two different ship variants that meet the same requirements:
- Lockheed Martin Monohull
- Austal Trimaran
- 52 Small Surface Combatants Planned
  - Ships 1-32 Modular LCS (MCM, SUW, ASW)
  - Ships 33-52 Frigate (FF) (Multi-mission SUW/ASW)
- Common MP to Seaframe Interface; governed by an Interface Control Document (ICD)

Modular Mission Packages
- Mine Countermeasure (MCM), Surface Warfare (SUW), Anti Submarine Warfare (ASW)
- Acquired from multiple sources (gov’t/industry)
- Advanced manned/unmanned vehicles & sensors
- Embarked for single, focused missions
- Conformance to ICD provides for embarkation of any Mission Capability

Fleet Introduction and Sustainment
- Readiness; Manpower, Personnel, and Training; Fleet Introduction; Logistics; Mission Package Support
LCS Cyber ROADMAP

- One network – multiple functions/systems
- One Authority to Operate (ATO) for platform

- Enclaves for boundary defense
- Updated network infrastructure
- One ATO for network plus various Platform IT accreditations for systems
Opportunities at the Ship Level

- Two ships variant network infrastructures alignment
- Cyber Interoperability Shore Based and Lab Testing
- Cyber certification requirements management and consistency documentation
  - New Anti-tamper Requirements
  - Support for obsolete technology
  - Configuration management
Mission Packages Opportunities

- Alignment with the seaframe Cyber Security implementation to avoid duplication of effort
  - Host Based Security System (HBSS)
  - Private Key Infrastructure (PKI) Authentication

- Streamline patching (Software/Information Assurance) strategy utilizing best practice

- Net-ready KPPs (Key Performance Parameter)
Overall PEO LCS Cyber Priorities

• Understand and frame the problem

• Bring onboard the right expertise

• Fix what we have; design with the future in mind
Frigate - the Future Cyber Hardened LCS

- Frigate = Modified LCS (Surface Warfare and Anti-Submarine Warfare multi-mission)

- Design for:
  - Platform Network Architecture (PNA) that incorporate future cybersecurity methods and standards
  - Defense-In-Depth Functional Implementation Architecture
  - Opportunities for multi-mission vice focused-mission capabilities

Cyber Security is a part of acquisition for design, development, maintenance and sustainment of our systems
Cybersecurity Point of Conduct

Director of Cybersecurity - (202) 781-3488