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

Inputs from Program Managers
Small Business Training Week #18

25 April 2018
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DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited (16 OCTOBER 2017)
PMW 160 Portfolio

ADNS (WAN)

CANES (LAN)

ACS (App Hosting Platform)

LEGACY (LAN)
System Complexity

- 6-7 Security Enclaves per ship
- 100’s to 1000’s of Users per Ship
- Various quantities of Sub, Unit and Force Level platforms
- Multiple HW / SW Baseline permutations
- Numerous Hosted Applications & Connected systems
- Training & Maintenance

**CANES Interface Complexity**

**Application Baseline Sponsoring Activity**

**Force Level Platform Complexity**

**Unit Level Platform Complexity**
<table>
<thead>
<tr>
<th>PMW 160 S&amp;T Capability GAPS</th>
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<tbody>
<tr>
<td><strong>CANES</strong></td>
</tr>
<tr>
<td>• Architecture to host ACS</td>
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<tr>
<td>• Automation on CANES</td>
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<tr>
<td>• Agile Enclave for mission req.</td>
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<tr>
<td>• HW/OS Agnostic Modular Solution</td>
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<td><strong>ADNS</strong></td>
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<tr>
<td>• Composable and Virtualized Network Functions</td>
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<td>• Increased Network Routing Agility and Data Transport Efficiency (QoS)</td>
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<td>• Methodology for Dynamic Load Balance</td>
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<tr>
<td>• Improve Ship to Ship Communication at all level</td>
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<tr>
<td><strong>TOP 5 Capability GAPS</strong></td>
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<tr>
<td>• Architecture to host ACS</td>
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<td>• Automation on CANES</td>
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<tr>
<td>• Cyber Defense/Detect/Alert/Prevention (IA)</td>
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<tr>
<td>• Methodology for Load Balance (ADNS)</td>
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<tr>
<td>• Modular Application Services (ACS)</td>
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<td><strong>ACS</strong></td>
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<tr>
<td>• Modular Application Services</td>
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<tr>
<td>• Data Analytics</td>
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<tr>
<td>• Data Fusion</td>
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<tr>
<td><strong>Cyber Security</strong></td>
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<tr>
<td>• Cyber Defense/Detect/Alert/Prevention proactively</td>
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<tr>
<td>• Anomaly Detection for cyber defense with Machine Learning</td>
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PMW 160 TD / APM S&T Roles with Market Research

Service Acquisition Process

1. Form the Team
2. Review Current Strategy
3. Market Research
   - 3.1 Take a team approach to market research
   - 3.2 Determine data sources
   - 3.3 Standardized interview guide
   - 3.4 Conduct market research (providers & consumers)
   - 3.5 Request information from service providers
   - 3.6 Analyze market research
   - 3.7 Document market research and trends
   - 3.8 Recommend Development/Integration/Investment Decisions
4. Requirements Definition
5. Acquisition Strategy
6. Execute Strategy
7. Performance Management

Mission Requirement

Mission Results

Mission Requirement

Mission Results

* 75 Industry/Academia demos/conferences/meetings on a variety of topics
* 20 Government Engagements
* Quarterly TD BAA for 5+ years Roadmap
* Targeted use of DARPA, RIF, FNC, SBIR, STTR
Contracts

Fleet Installations
- ADNS Inc III: 129 complete, 44 in progress
- CANES: 67 complete, 43 in progress
- ISNS Upgrades: 126 complete, 6 in progress

Production Contracts
- ADNS IDIQ MAC Production contract
- CANES IDIQ MAC Production contract

Service Contracts
- Engineering, PM Support, Logistics, Installation, Etc.

Upcoming Opportunities
- CANES Baseline Analysis of Alternative Services (BAAS)
- CANES Virtual Training
Discussion

Industry - Thank you for your support to PMW-160 and the Fleet!

And many more …