



## PMW 160 Tactical Networks Program Office

### Who We Are and What We Do

PMW 160 is the Navy's program office for tactical networks, providing mission effective, affordable and cyber resilient networks for Navy tactical forces. PMW 160 delivers integrated wide area, local networking and computing and data systems afloat to support a robust network of geographically dispersed Navy, joint service and coalition forces.

### Top Programs and Services

- **Consolidated Afloat Networks and Enterprise Services (CANES) (ACAT IAC)**

CANES is a Chief of Naval Operations-directed program that delivers an afloat warfighting network platform. Replacing five existing networks, CANES enables the next generation of command and control (C2) and intelligence, surveillance and reconnaissance capabilities and significantly increases operational effectiveness by hosting or connecting hundreds of warfare, C2, intelligence, logistics, business and administrative applications across multiple security domains. CANES provides data, transport, computing, voice and video services, systems management, enterprise services and cybersecurity functionality. Through constant competition, government-owned data rights, and use of open architecture standards, the program reduces Navy network total ownership costs. CANES achieved Initial Operational Capability in October 2013.

- **Automated Digital Network System (ADNS) (ACAT II)**

ADNS supplies the tactical wide area network (WAN) capabilities of the naval communications system, providing surface ship, submarine, airborne, tactical-shore and shore-based WAN gateway services management. Since its initial deployment in 1997, ADNS has evolved through multiple increments. Increment III increases network capacity by adding the ability to utilize higher bandwidth available with newer satellite communication (SATCOM) systems. Efficiency is increased by converging to all-IP voice/video/data and implementing dynamic load distribution across SATCOM links.

- **Legacy Network Systems (LNS) (ACAT II/III)**

LNS is the predecessor to CANES and is comprised of Integrated Shipboard Network System (ISNS), Sensitive Compartment Information Networks (SCI Networks) and Combined Enterprise Regional Information Exchange System-Maritime (CENTRIXS-M). LNS provides the infrastructure and services for numerous applications, systems, and services. LNS also provides Fleet Commanders and Coalition forces the necessary tools to communicate and collaborate on various enclaves from Non-Secure Internet Protocol Router (NIPR)/Secure Internet Protocol Router (SIPR) to coalition networks. SCI-N is the cryptologic system backbone that connects the warfighter to the Intelligence Community (IC).

- **Application Integration (AI)**

AI Identifies, assesses, integrates, and tests all systems and applications using network services and transport provided by CANES, ISNS, ADNS, SCI Networks, SubLAN (Submarine LAN), and CENTRIXS-M. This process ensures shipboard networks application baselines are fully integrated and cyber ready to support Navy missions afloat.

- **Agile Core Services (ACS)/Core Enterprise Services (CES)**

CES: Manages the engineering, integration, and sustainment of the PMW 160 software line. CES comprises Operating Environment (OE), Agile Core Services (ACS), Systems Management (SM), and Software Asset Management (SAM). OE develops, integrates, tests, and sustains the software baselines for CANES, Legacy Networks and SubLan. ACS provides the service-oriented architecture for CANES, including the Navy Tactical Analytics Framework. SM provides the software tools and standard operating procedures to ensure the stability and responsiveness of the CANES system.

### FY17 Priorities

- CANES installations and technology improvements to pace the cybersecurity threat and increase mission effectiveness
- Legacy Network Systems Operation Rolling Tide (ORT) Windows XP eradication and cyber resiliency efforts
- Improve agility, speed and effectiveness of integration testing and certification of hosted and connected applications
- ADNS Increment III surface and shore installations, including Service Pack 3 initial fielding