



## PMW/A 170

### Communications & GPS Navigation Program Office

#### Who We Are and What We Do

As the Navy's Communications & Global Positioning System (GPS) Navigation Program Office, PMW/A 170's mission is to provide and support interoperable, cost-effective communications and position, navigation and timing services; assured, resilient communications; and GPS navigation to enable information warfare for maritime forces.

#### Top Programs

- **Navy Multiband Terminal (NMT) (ACAT IC)**

NMT is the fourth-generation military satellite communications system for Naval platforms. NMT provides joint interoperable protected and wideband satellite communications via Advanced Extremely High Frequency (AEHF), Milstar, Ultra High Frequency Follow-on (UFO), Polar, Defense Satellite Communications System (DSCS) and Wideband Global SATCOM (WGS) satellites. NMT includes variants for three international partners: the United Kingdom, Canada and The Netherlands.

- **Commercial Broadband Satellite Program (CBSP) (ACAT III)**

As the Navy's next-generation Commercial SATCOM Program of Record, CBSP provides the only source of wideband SATCOM to Patrol Coastal (PC) and Mine Countermeasure (MCM) ships and diversity for MILSATCOM on Unit Level Variant (ULV) class ships (as funding becomes available) as well as augments MILSATCOM on Force Level Variant (FLV) ships. The associated architectures significantly increase data throughput, Navy Anti-Access Area Denial (A2AD) posture and SATCOM reliability and space resiliency by providing band diversity, assured access and redundancy for MILSATCOM.

- **Digital Modular Radio (DMR) (ACAT III)**

DMR is a four-channel, high-capacity, software-programmable tactical radio providing interoperable Line of Sight (LOS), Beyond Line of Sight (BLOS) and SATCOM (UHF) C4I capabilities to the fleet. The program is currently porting Integrated Waveform (IW)/ Mobile User Objective System (MUOS) /GEN 3 ALE waveforms onto DMR.

- **Battle Force Tactical Network (BFTN) (ACAT III); SubNet Relay/High Frequency Internet Protocol (SNR/HFIP)**

Battle Force Tactical Network (BFTN) provides LOS and BLOS network TCP/IP connectivity for ships and submarines via the High Frequency (HF) and Ultra High Frequency (UHF) radio spectrum at data rates of 19.2Kbps (HF) and 64Kbps (UHF). NAVAIR provides BLOS connectivity for aircraft via HF using Aviation High Frequency Internet Protocol (aHFIP).

- **GPS-based Positioning, Navigation, and Timing Service (GPNTS) (ACAT III)**

GPNTS is the Navy's next-generation surface positioning, navigation and timing (PNT) system. It provides mission-critical, real-time PNT data services for weapons, combat, navigation and other C4I systems requiring PNT data.

- **Network Tactical Common Data Link (NTCDL) (ACAT III)**

NTCDL is the Navy's next-generation tactical common data link system which provides significant increase in capability over the currently fielded Communication Data Link System (CDLS) (which has single point-to-point connectivity) by providing end-to-end networked and multiple simultaneous CDL mission capability.

#### FY17-20 Priorities

- **NMT:** A2AD Development Efforts including Adaptive Coding and Wideband Anti-Jam Modem System (WAMS); Installation and Fielding; Follow-on Operational Test and Evaluation (FOT&E) in 3QFY17; Wideband Anti-jam Modem System Mini-Hub & Modem Contract Award Q2FY20
- **CBSP:** CBSP Lease Contract Transition; Bandwidth Efficient Technologies Integration and Fielding; Radome Upgrade for L-Deck; Follow-on Developmental Test in FY18
- **DMR:** IW/ MUOS Procurement and Fielding; High Frequency Distribution Amplifier Group (HFDAG) Deliveries Ongoing; IW/MUOS Follow-on Contract Award 3QFY17
- **BFTN:** Initial Operational Test & Evaluation and Follow-on Terrestrial BLOS A2AD Communications
- **GPNTS:** Operational Assessment in Q2FY17; Production Contract Award Q4FY17; Milestone C Q3FY17; Government Testing Q2FY19-Q4FY19; GPS Modernization across Navy
- **NTCDL:** Engineering & Manufacturing Development (EMD)/Low Rate Initial Production (LRIP) Phases

#### Contact Information