



## PMW/A 170

### Communications & GPS Navigation Program Office

#### Who We Are and What We Do

As the Navy's Communication & 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 dominance 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 (UHF) 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 PCs, MCMs, FFGs, diversity for MILSATCOM on Unit Level Variant (ULV) class ships (as funding becomes available), and 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. Program is currently porting IW/MUOS 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 UHF radio spectrum at data rates of 19.2Kbps to 128Kbps (HF) and 64Kbps to 1.9Mbps (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) (single point to point connectivity) by providing end-to-end networked and multiple simultaneous CDL mission capability.

#### FY16-18 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 2QFY16
- **CBSP:** CBSP Lease contract transition in FY16. Bandwidth efficient technologies integration and fielding
- **DMR:** High Frequency Distribution Amplifier Group (HFDAG) Deliveries Ongoing; Integrated Waveform (IW)/ Mobile User Objective System (MUOS) Procurement and Fielding Strategy Decision 1QFY17; IW/MUOS Follow-on Contract Award 2QFY17; MUOS Fielding Decision Review (DR) Q4FY18
- **GPNTS:** Government Independent Verification & Validation (IV&V) Q1FY16-Q3FY16; Operational Assessment in Q4FY16; Milestone C Q3FY17; Production Contract Award Q3FY17
- **NTCDL:** Milestone B in 2QFY16; Engineering & Manufacturing Development (EMD)/Low Rate Initial Production (LRIP) Contract Award in 4QFY16; Preliminary Design Review (PDR) 3QY17; Critical Design Review (CDR) 1QFY18
- **JALN-M Demonstration:** FY16 – Program Management Review (Oct), Critical Design Review (Dec), Integration Test Readiness Review. FY17 – Technical Readiness Review and Integration Test Readiness Review. FY18 – Demonstration and final report

#### Contact Information

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