PM AMSA Overview

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PEO Aviation Organization

Program Executive Office Aviation

- Apache
- Unmanned Aerial Systems
- Advanced Turbine Engines
- Future Attack Reconnaissance Aircraft
- Future Long Range Assault Aircraft
- Utility
- Cargo
- Fixed Wing
- Multi-National Aviation

- Assured Airspace Access Systems (A3S)
- Aerial Communications & Mission Command (ACMC)
- Aviation Architecture & Environment Exploitation (A2E2)
- Aviation Ground Support Equipment (AGSE)
PM Aviation Systems Transformation

- PM Air Traffic Control
- PM Aviation Mission Equipment
- PM Degraded Visual Environment
- PM Aviation Ground Support Equipment

- PM Assured Airspace Access Systems
- PM Aerial Communications and Mission Command
- PM Aviation Architecture and Environment Exploitation

PM AMSA focused on delivering Multi-Domain Operations Capability
**MISSION:**
Design, Develop, and Deliver Advanced Aviation Technologies that Provide Soldiers an Overmatching Operational Advantage

**VISION:**
Enable the Aviation Enterprise to Win Today and Tomorrow in a Unified Networked Operational Environment
AMSA Scope

• 53 distinct Product lines, $326M FY21 Annual Budget, Over 1,409 Fieldings in FY20
• Provide common commodities to Aviation Enterprise
  – Communication, Networking, Planning, Mission Command, Mission Processing, APNT, AGSE, ATC
• Enable Multi-Domain Operations by providing capabilities for the Enduring Fleet
• Provide risk reduction by providing capabilities for the Future Fleet
• Serve as PEO primary touchpoint to:
  – APNT CFT
  – Network CFT
  – JADC2 CFT
  – Mission Command GOSC
  – Airspace Control
  – National Airspace Inter-Agency Working Group
Assured Positioning Navigation & Timing

- Aviation APNT Strategy focused on PACE plan
  - Embedded Global Positioning Service (GPS) Inertial EAGLE-M (EGI)
  - Multi-platform Anti-Jam GPS Navigation Antenna (MAGNA)
  - Resilient Software Assurance Modifications (RSAM)
  - Alternate PNT Capability
Aviation Mission Common Server

• Aviation Mission Common Server (AMCS)
  – Modular avionics server with a distributive architecture that enables the ability to rapidly host software applications for various capabilities (i.e. sensor fusion, AI, cyber protection, etc).
  – Provides the mission processing and integration of advanced communications needed for Joint All-Domain Operations
  – Provides Army Aviation an Open System Architecture (OSA) digital backbone with Future Airborne Capability Environment (FACETM) Interfaces
  – Facilitates the exploitation of native platform and platform sensor/weapon system data
Air to Ground Networking Radio (AGNR)

- Multi-band, multi-mode two-channel ground radio system to provide VHF/FM, SINCGARS, TSM, and MUOS
- Replaces ARC-201D legacy radio
- Provides voice, data and advanced network communications to warfighter
- Brings modernized Crypto
- Utilizing new Aviation Mission Common Server to control radio

Prime Contractors:
Harris Corp, Rochester, NY
Collins Aerospace, Charlotte, NC
Integrated Mission Planning and Airspace Control Tools (IMPACT)

**TAIS Software**
- TAIS is a software-centric mission command system for automated Airspace Control (AC), and enroute Air Traffic Services (ATS) for Corps, Divisions and ATS companies.
- TAIS will evolve to facilitate Air Space Total Awareness for Rapid tactical Execution (ASTARTE) and Joint All Domain Command and Control (JADC2). Common Operating Environment (COE) Convergence of TAIS into the Dynamic Aviation Mission Planning and Execution (DAMPE) will be instantiated across Command Post and Mobile/Handheld Computing Environments (CEs).
- TAIS software was designed to meet both AC and ATS requirements.

**AMPS Software**
- AMPS is a software-centric mission command system with dedicated hardware for pre-mission planning, risk assessment, transfer of mission data to aviation platforms, and post-mission analysis.
- AMPS provides connectivity to Army Mission Command Systems and will evolve to facilitate Joint All Domain Command and Control (JADC2). Common Operating Environment (COE) Convergence of AMPS, Mobile Mission Planning System (MMPS), and Common Secure Data Loader (CSDL) into Dynamic Aviation Mission Planning and Execution (DAMPE) will be instantiated across Command Post Computing Environment (CE), Mounted CE, and Mobile/Handheld CE.
Key Stakeholders

- DA (G-3/5/7, G4, G8)
- USAACE
- Futures Command
  - FVL CFT
  - APNT CFT
  - Network CFT
  - JADC2 CFT
  - STE CFT
- ASAALT
  - PEO C3T
  - PEO Soldier
  - PEO IEWS
  - RCCTO
- AMC
  - AMCOM
  - CECOM
- US Army Combined Arms Center
- FAA
- USAASA

PM AMSA works across the Army Enterprise to enable Interoperability and Convergence
Questions