Army Data and Analytics Platforms (ARDAP) AFCEA Breakout Session

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U.S. Army PEO Enterprise Information Systems

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Since Last Year

- PEO EIS reorganized in order to better align to senior leader priorities and support Soldiers
  - The Army Enterprise Systems Integration Program (AESIP) charter was disestablished
  - The Army Data and Analytics Platforms (ARDAP) program was chartered

ARDAP Mission: To accelerate Army leader informed decisions and Warfighter mission accomplishment by ensuring near real-time availability of command and logistics information and data.

Data Broker	Data Management as a Service (Platform Provider)	Analytics as a service (Full Service)

PEO EIS = Program Executive Office Enterprise Information Systems

Description and Objectives

ARDAP manages a portfolio of systems that will modernize Army business processes and enable scalable, agile and trusted data platforms integrated with data services/applications, visualization and analytic tools to facilitate fact based and resource-informed decision-making.

ARDAP WILL:

- Operate data management principles
- Optimize systems

- Establish open and flexible architecture
- Design for maximum correctives

To support

ARMY OBJECTIVES

- Make Data Visible, Accessible, Understandable, Trusted, Interoperable, Secure (VAUTIS)
- Accelerate data driven decisions
- Decrease time to field software
- Operational data and cloud enabled at echelon
- Machine learning and artificial intelligence enabled mission execution, automated systems

ARDAP = Army Data and Analytics Platforms

ARDAP Programs

GCSS-Army — GLOBAL COMBAT SUPPORT SYSTEM - ARMY

Tactical logistics ERP system
- Connects supply chain logistics and finances
- Centralizes property accountability
- Enables timely command decisions
- Automates supply chain operations
- Tactical maintenance capability

AMIS — AUTOMATED MOVEMENT AND IDENTIFICATION SOLUTIONS

Automated transportation and identification solutions
- Increases unit movement efficiencies
- Increases asset tracking visibility
- Supports rail, air and ship loading
- Provides near real-time location reports
- Worldwide visibility through satellite tracking

LIS — LOGISTICS INFORMATION SYSTEM

Legacy logistics systems for lifecycle management
- PBUSE for property book and unit supply accountability for tactical operations
- ULLS-A(E) for rotary wing aviation maintenance performed by tactical units and Installation Fixed-Base activities
- SAAS-MOD for ammunition ordering, receipt, storage, issue and auditability for tactical units

AESIP — ARMY ENTERPRISE SYSTEMS INTEGRATION PROGRAM HUB

Army business process integration
- Normalizes and synchronizes master data for consumption in the logistics business process
- Single business warehouse to collect and aggregate Army logistics data
- Enhanced data visualization of near real-time readiness information to improve decision support capabilities

ARMY VANTAGE — DATA ANALYTICS PLATFORM

Enterprise data analytics and management platform
- Common, integrated data management
- Connects to new and legacy systems
- Draws data in any form at any scale
- Data analysis and visualization dashboards
- Allows the Army to "see itself" through a continuous, real-time perspective
- Shows the current and predicted future state of the Army

GFIM — GLOBAL FORCE INFORMATION MANAGEMENT

Dynamic global force structure and employment data system
- Allows senior leaders and combatant commanders to make data-driven force structure decisions faster and with confidence
- Provides standardized force structure data that is visible, accessible and understandable
- Authoritative data to support the Deploy to Redeploy, Retrograde process

EBS-C

Modernizes existing processes
- Implements a modernized approach to Army business processes through re-engineering
- Will provide force planning, equipping, readiness and deployment capabilities
- Enables procurement, human resources, technology and finance activities

Where We Need Industry Input

- ## Modernization
  - Machine Learning / Artificial Intelligence
  - Automation
  - Business Process Re-engineering
- ## Data Platforms
  - Disparate Data Sources
  - Data Integration
  - Data Virtualization
- ## Data Management
  - Data Quality
  - Data Catalogs
- ## Self-Service Business Intelligence
  - Governance
  - Analytic Tools

Subordinate Program Overview Charts

Global Combat Support System - Army

Mission: Provide the Army with modernized logistics and financial capabilities, master data management, enterprise aviation logistics, and enhanced business intelligence / business warehouse capabilities

Capabilities	FY21 Program Priorities
Enterprise Resource Planning solution that tracks and manages unit maintenance (ground and air), total cost of ownership, and other logistics-related financial transactions for all Army units. Major Focus Areas: • Property Book • Supply Operations • Tactical Maintenance • Enterprise Aviation Logistics • Logistics Management • Tactical Finance Functionality	• Enterprise Aviation Integration • Army Pre-Positioned Stocks • Medical Logistics • Disconnected Ground Solution (with Improved User Experience) • Cloud Migration • ECC and Aircraft Notebook Sustainment

ECC = Enterprise Central Component

Army Enterprise Systems Integration Program Hub

A technical component of GCSS-Army

Mission: Provide the capability to integrate Army business processes by providing a single source for centralized master data management, business intelligence and analytics and enterprise hub services.

Capabilities	FY21 Program Priorities
• Master Data Management: Oversight of the authoritative sources for common data used by multiple systems. • Business Intelligence/Business Warehouse: Processes and tools that transform raw data into pertinent information that shapes leaders' decision-making. • Enterprise Hub Services: Activities involving data brokerage and integration of common IT services.	Data-Driven Projects • Price & Credit • Medical Logistics Minimum Viable Solution • Enterprise Aviation transactional data • Commander's Actionable Readiness Dashboard Cloud Migration • Master Data/Data Lake Capability Sets • Enterprise Portal and Identify Management Cyber Security Audit • Authority to Operate re-accreditation

Automated Movement and Identification Solutions

ARDAP | **AMIS**
ARMY DATA AND ANALYTICS PLATFORMS | AUTOMATED MOVEMENT AND IDENTIFICATION SOLUTIONS

Mission:
- Provide a single point of contact for procurement, technical expertise, training and customer support for TC-AIMS II and RF-ITV products and services
- Support the integration of automated movement and identification technologies into Army and enterprise business processes

Capabilities	FY21 Program Priorities

• Transportation Coordinators' Automated Information for Movements System II (TC-AIMS II) consists of three modules:
  – Unit Move
  – Convoy Planning Highway Regulation
  – Theater Operations (TOPS)
 	
• Radio Frequency In-Transit Visibility (RF-ITV): uses radio frequency, cellular and satellite tracking devices to provide ITV information to track the identity, status and location of cargo from origin to destination
	• Integrate Weigh in Motion (WiM) with TC AIMS II Unit Movement
	
	• Execute Financial Management/Tracking capability to TOPS component
	
	• Align Army G-4 and TRANSCOM requirement to support High Level Objectives (TMAS CRD) and TMS task listing
	
	• Establish FY21 and beyond strategy for In-Transit Visibility

CPD = Capabilities Requirements Document
FY = Fiscal Year
TMAS = Transportation Management Accountability System
TMS = Transportation Management System
TRANSCOM = Transportation Command

Logistics Information Systems

Mission: Responsible for acquisition program management and lifecycle sustainment within cost, schedule, contracts and performance for assigned logistics information systems

Capabilities	FY21 Program Priorities
• Standard Army Ammunition System (SAAS): Legacy system for tactical Ammo supply management • Property Book Unit Supply Enhanced (PBUSE): Legacy system for property accountability and unit supply operations; Used by two Special Operations Commands for classified property accountability • Ammunition Other Transaction Authority (Ammo OTA): Oversight of an OTA contract to obtain a prototype system to support production and a deployment decision of an E2E ammo management capability	• Maintain SAAS cyber readiness and server availability to support tactical and installation ammunition management operations world-wide • Maintain PBUSE application software cyber readiness and functional capabilities until an objective classified capability is delivered • Provide effective acquisition oversight of the Ammo OTA to support the Army objective to achieve an E2E Ammo management capability to replace SAAS

E2E = End to End

Army Vantage

Mission: Allow the Army to "see itself" by providing senior leaders, Soldiers, staff and analytic communities with a common, integrated data platform to visualize and analyze the current and predicted future state of the Army

Capabilities	FY21 Program Priorities

• Vantage spans all data domains, powers a set of configurable views, and provides tools for making data-driven decisions at every level of the Army
 	
• Current Lines of Effort (LOEs) focus on platform configuration, data integration, and user engagement for select critical workflows:
  – Command Toolkit
  – Finance/Return on Investment
  – Strategic Readiness
  – SSA Common Operating Picture
  – Commander's Risk Reduction
	• Continue prioritization of proposed LOEs for Platform integration through COC governance
	• Continue to work with G-1 as the CRRT LOE transitions to sustainment
	• Support process champions, domain data stewards and other subject matter experts to verify and endorse the data and pipeline integration
	• Continue data quality improvements by making all data visible, accessible, understandable and trusted
	• Make data available to external partners through CDP capabilities

CDP = Common Data Platform
COC = Council of Colonels
CRRT = Commander's Risk Reduction Toolkit
SSA = Strategic Support Area

Global Force Information Management

Mission: Provide an integrated, interoperable Global Force Management Data Initiative compliant platform that supplies authoritative Dynamic Force Structure and Dynamic Force Employment data.

Capabilities	FY21 Program Priorities
• Presents near real time Global Force Management (GFM) insight of Army formations down to team level at rest and in motion • Automates FM functions enabling D2RR, DOD GFM, and Joint C2 processes • Authoritative, open data platform for the exchange of unclassified/classified force structure, GFM, and readiness data • Distributes GFM-DI compliant authoritative data	• Project Prototype OTA solicitation • GFIM Prototype Phase 1 (focused on six legacy systems providing 'at rest' Army Force Management data) • Integration with the G-3 Data Lake • Foundation of fundamental Force Management processes and data

C2 = Command and Control
D2RR = Deploy to Redeploy, Retrograde
DI = Data Initiative
DOD = Department of Defense
OTA = Other Transaction Authority

Enterprise Business Systems Convergence

ARDAP | ARMY DATA AND ANALYTICS PLATFORMS | **EBS-C**

Mission: To implement a modernization approach that will improve how all business is done and reported in a rapidly modernizing Army by reengineering existing processes and developing the full range of needed requirements to enable readiness generation, modernization and direct business-related support from the strategic support area to the tactical edge – '*As Commercial as Possible, as Military as Necessary*'

Capabilities (Future)	FY21 Program Priorities
Functional: • Force Planning • Force Equipping • Force Readiness • Force Deploy **Enabling:** • Procurement • Human Resources • Technology • Finance	• Business Process Re-engineering (BPR) • Requirements Definition • Policy/Regulation Revisions • Acquisition Strategy (PEO EIS)

Procurement Opportunities

PROGRAM	PROCUREMENT TYPE	DESCRIPTION	OFFICE	CONTRACT / TYPE	ESTIMATED AWARD DATE
GCSS-Army	SERVICES	Warehouse Operations & Integration Svcs	ACC-RI	FFP T/O	Q1 - 2021
ARDAP	SERVICES	PMO Support	ACC-RI	Hybrid T/O	Q1 - 2021
GCSS-Army	SERVICES	Disconnected OPS OTA	ACC-RI	OTA	FY21/Q2

A GCSS-Army Industry Day event is being planned for December 1, 2020, to support the Disconnected Operations OTA effort. Additional details will be released by the Army Contracting Command in the coming weeks.

ACC-RI = Army Contracting Command Rock Island
ARDAP = Army Data and Analytics Platforms
FFP = Firm Fixed Price
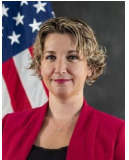GCSS-Army = Global Combat Support System - Army
TO = Task Order

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EBS-C

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Vendors may request a meeting with our programs at: https://theforge.force.com/peoeis/s/

AESIP = Army Enterprise Systems Integration Program
AMIS = Automated Movement and Identification Solutions
EBS-C = Enterprise Business Systems Convergence
GCSS-Army = Global Combat Support System - Army

GFIM = Global Force Information Management
LIS = Logistics Information Systems

QUESTIONS & ANSWERS

AR-DAP
ARMY DATA AND ANALYTICS PLATFORMS

We could not complete our mission without our people. Their dedication to these critical programs within ARDAP is essential to the Army -- and our brave warfighters.

The Army relies on
ARDAP

Connecting the Army. Working for Soldiers.