Army Data and Analytics Platforms
(ARDAP) AFCEA Belvoir Breakout Session

Connecting the Army.
Working for Soldiers.

Nov. 5, 2021 - 1100-1200

DISTRIBUTION STATEMENT A. Approved for public release. Distribution is unlimited.
Since Last Year

- **ARDAP**
  - ATIS moved from PM DIBS to PM ARDAP (JUL 21)
  - GCSS-Army moved to PM DIBS (OCT 21)
  - Developed ARDAP roadmap to execute Army Data Plan

- **EBS-C**
  - New PL – Preston Hayward (JUL 21)
  - Continued to refine acquisition strategy- including ROM, OTA roadmap, and roadmap to ILD software build schedule
  - Achieved Functional Requirements ATP approval (OCT 21)

- **GFIM**
  - Awarded the Phase I Prototype to two vendors (Palantir & NuWave)
  - Phase I prototype sprints underway delivering ‘Army At Rest’ Force Management capabilities
  - Phase I efforts will subsume 6 of 13 legacy systems supporting the D2RR business process

- **ATIS**
  - New PL – Tim Hale (JUL 21)
  - Provided more than 230K hours of training to nearly 150K Soldiers and Civilians
  - Completed nearly 3M training courses in the Army Learning Management System
Since Last Year (cont’d)

- AESIP Hub
  - Successful Global Combat Support System Army Increment 2, Wave 2, BI/BW Capability Drop 2.1 Limited Deployment Authority to Proceed
  - Cloud migration
  - Enterprise Data Services Catalog Proof of Concept Kick-Off

- AMIS
  - Awarded Next Generation Transponder contract (ORBCOMM) to provide an Army-wide satellite/cellular asset tracking capability
  - Continued to work DACMS (Weigh in Motion) interface with TC AIMS II to electronically capture and import vehicular/asset dimensional data for development of Unit Deployment Lists

- Army Vantage
  - New PL – Miranda Coleman (NOV 20)
  - Supported the Joint Staff’s Project ORSUS and 82D in support of the Afghanistan retrograde and NEO crisis
  - Go-live of the Weapons Accountability workflow
  - Developed new data interfaces, data assets, and visualizations in support of the Army’s Business Health Metrics (BHM) reporting to OSD

- LIS
  - Implemented 2 SAAS interim change packages to ensure regulatory/safety compliance regarding Net Explosive Weight (NEW) calculations and updating of forms to be compliant with current regulations
  - Migrated PBUSE user training package to current technology, which provides property accountability for Special Operations Commands in a classified environment
**ARDAP Overview**

### MISSION & INTENT
- Accelerating Army leader informed decisions and Warfighter mission accomplishment by ensuring real-time availability of command and logistics information & data
- Allowing Army leaders to make fact-based decisions through availability of relevant information

### ARDAP OBJECTIVES
- Data management/security at scale
- Near Real time data
- Provide intuitive systems
- Expanded self-service capabilities
- Leverage authoritative data
- Facilitate E2E business processes and BEA compliance

### ARDAP WILL
- Operate data management principles
- Optimize systems
- Establish open and flexible architecture
- Design for maximum data correctness
- Establish technical design

### ARMY OBJECTIVES
- Make Data Visible, Accessible, Understandable, Linked, Trustworthy, Interoperable, and Secure (VAULTIS)
- 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
MODERNIZATION is the Army’s top priority....data enables modernization
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

- **Master Data Management**: Oversight of authoritative sources for common data used by multiple systems.
- **Business Intelligence/Business Warehouse**: Processes and tools that transform raw data into relevant and timely information that facilitate leaders’ decision-making efforts.
- **Enterprise Hub Services**: Activities involving data brokerage responsibilities and integration of common IT services.
- **Enterprise Identity Management**: Automated management functions to authenticate and authorize users’ access to pertinent data, applications and Cloud platforms.

FY22 Program Priorities

- **Data-Driven Projects**
  - Deploy select transactional reports to help the Army aviation community better see itself in maintenance and operational issues.
  - Enhance the Commander’s Actionable Readiness Dashboard with a self-service capability to better monitor readiness building and sustainment.

- **Cloud Migration**
  - Transition to new AWS Managed and Cloud Service Providers.
  - Migrate all Logistics Data Analysis Center (LDAC) applications to the AWS Cloud.

- **Capability Sets**
  - Implement various Enterprise Portal and Identity Management initiatives to provide greater capacity to end users.

- **Cyber Security Management**
  - Achieve three Authorization to Operate system re-accreditations.

Stakeholders

<table>
<thead>
<tr>
<th>Stakeholders</th>
<th>Users</th>
</tr>
</thead>
<tbody>
<tr>
<td>DLA</td>
<td>140K + Annually</td>
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<tr>
<td>HQDA, G-4</td>
<td>Army EAVN</td>
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<tr>
<td>AMC</td>
<td>CASCOM</td>
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<tr>
<td>ASA (FM&amp;C)</td>
<td>LDAC</td>
</tr>
<tr>
<td>OSD</td>
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<tr>
<td>DHA (+ 41 Trading Partners)</td>
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Software / Technology Stack

<table>
<thead>
<tr>
<th>Software / Technology Stack</th>
<th>Stakeholders</th>
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</thead>
<tbody>
<tr>
<td>SNOW</td>
<td>AWS</td>
</tr>
<tr>
<td>SAP</td>
<td>AppDynamics</td>
</tr>
<tr>
<td>LoadRunner</td>
<td>S4 HANA</td>
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<td>ADVANA</td>
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</table>

DLA = Defense Logistics Agency
OSD = Office of the Secretary of Defense
HQDA = Headquarters Department of the Army
SNOW = ServiceNow
AMC = Army Materiel Command
ASA (FM&C) = Assistant Secretary of the Army – Financial
AWS = Amazon Web Services
CASSCOM = Combined Arms Support Command
DHA = Defense Health Agency
EAVN = Enterprise Aviation
Automated Movement and Identification Solutions (AMIS)

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

<table>
<thead>
<tr>
<th>Capabilities</th>
<th>FY22 Program Priorities</th>
</tr>
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</table>
| • 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 | • 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  
• DACMS (Weigh in Motion) /TC AIMS II Interface |

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</table>
| G-4, DPMO, CASCOM, FORSCOM, TRANSCOM | • TC-AIMS – Users U.S Army, Active Duty, Reserve, National Guard; 8,280 users  
• RF-ITV – Users, U.S. Army, Active Duty, Reserve, National Guard, Marines, Navy, Air Force, DLA, SDDC, Joint User, NATO, and Coalition Partners,  
• TRANSCOM; 3916 + users | • TC-AIMS II - n-tiered architecture base on Windows platforms.  
• RF-ITV - n-tiered architecture base on Oracle Solaris technology |

CASCOM = Combined Arms Support Command  
CPD = Capabilities Requirements Document  
DLA = Defense Logistics Agency  
FORSOM = United States Army Forces Command  
FY = Fiscal Year  
NATO = North Atlantic Treaty Organization  
SDDC = Surface Deployment and Distribution Command  
TMAS = Transportation Management Accountability System  
TMS = Transportation Management System  
TRANSCOM = Transportation Command
### Army Training Information System (ATIS)

**Mission:** Premiere, one-stop training solution for the Total Force.

#### Capabilities

| **Army Learning Management System** – Centralized training management system that hosts courseware and delivers standardized training |
| **Digital Training Facility/Mobile Deployed Digital Training Campus** – Fixed, deployable and mobile classrooms used to conduct DL training to improve individual and unit readiness |
| **Army e-Learning** – Offers Courses in IT, Business Leadership, and Professional Development |
| **Range Facility Management Support System** – Web-Based Range management application |
| **ATIS (Development)** – Combine 28 legacy training systems into a single solution that will provide training development, scheduling, resource learning and content management |

#### FY22 Program Priorities

| Legacy System Sub-sumption Plan |
| RMF re-accreditation |
| Agile SW Development that works in DoD environment |
| Market Research on Commercial Off The Shelf Products that will fulfill ATIS Development Capabilities |

#### Stakeholders

| PEO EIS, TPO ATIS, Army U, CAC-T, ATSC, TPO Range, Army G-3/5/7 and ACOMs |

#### Users

| 1.8M Compo 1,2,3 DA Civilian and CTR |

#### Software / Technology Stack

| cARMY: FOX BKS, ArcGIS, GCDS, Worksoft, NeoLoad, WhatFix, Qlink, Mulesoft Anypoint, NNCompass (see notes) |
| HRC/ALTESS: CISCO, Oracle, VMware, Tivoli, Remedy, VOIP |

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ACOMs = Army Commands
ALMS = Army Learning Management System
CAC-T = Combined Arms Center - Training
COOP = Continuity of Operations
CTR = Contractor
DA = Department of the Army
DL = Distributed Learning
IT = Information Technology
LD-ATP = Limited Deployment – Authority to Proceed
PEO EIS = Program Executive Office, Enterprise Information Sytems
STG = Staging
TPO = TRADOC (Training and Doctrine Command)
TRN = Training
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

<table>
<thead>
<tr>
<th>Capabilities</th>
<th>FY22 Program Priorities</th>
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</thead>
<tbody>
<tr>
<td>• 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</td>
<td>• Continue prioritization of proposed LOEs for Platform integration through COC governance</td>
</tr>
<tr>
<td>• Supports the Army’s modernization and readiness priorities</td>
<td>• Continue data quality improvements by making all data visible, accessible, understandable and trusted</td>
</tr>
<tr>
<td>• Displays past, current and future total force data</td>
<td>• Continued support of independent development of front-end workflows.</td>
</tr>
<tr>
<td>• Produces predictive analytics</td>
<td>• Expansion of the Vantage Data Brokerage capabilities</td>
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<tr>
<td>• Empowers users at every level through collaboration</td>
<td></td>
</tr>
<tr>
<td>• Facilitates real-time or near real-time decision making</td>
<td></td>
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<tr>
<td>• Supports strategic, operational and tactical planning</td>
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<tr>
<td>• Helps identify cost savings and return on investment</td>
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<table>
<thead>
<tr>
<th>Stakeholders</th>
<th>Users</th>
<th>Software / Technology Stack</th>
</tr>
</thead>
<tbody>
<tr>
<td>-Army CDO (Functional)</td>
<td>-Vantage has over 32,000 active users, including military, civilians, and contractors, with demand growing daily.</td>
<td>- SAAS Palantir Foundry Product / Palantir Federal Cloud Services &amp; AWS at FedRAMP IL5/IL6</td>
</tr>
<tr>
<td>-Executive Stakeholders: G-4, XVIII ABC, FORSCOM, 82d, AMCOM, G-3/5/7, AMC, G-2, AFC, PEO-EIS, USASOC, ABO, ASC, OBT, G-4/6, and G-1</td>
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</tr>
</tbody>
</table>

ABO = Army Budget Office  
ABC = Army Business Council  
AFC = Army Futures Command  
AMC = Army Materiel Command  
AMCOM = Aviation and Missile Command  
ASC = Army Sustainment Command  
AWS = Amazon Web Services  
COC = Council of Colonels  
FORSCOM = United States Army Forces Command  
HQDA = Headquarters Department of the Army  
MACOM = Major Army Commands  
OBT = Office of Business Transformation  
OSA = Office of the Secretary of the Army  
PEO EIS = Program Executive Office, Enterprise Information Systems  
SSA = Strategic Support Area  
USASOC = U.S. Army Special Operations Command
**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—‘Commercial as Possible, Military as Necessary’

### Convergence (Future)

**Capabilities**

- Convergence of existing 6 SAP ERPs into a single solution (GFEBS, GFEBS SA, GCSS-Army, LMP, HQAES, AESIP)

**Functional:**
- Force Planning
- Force Equipping
- Force Readiness
- Force Deploy

**Enabling:**
- Procurement
- Human Resources (integration with IPPS-A)
- Technology
- Finance

### FY22 Program Priorities

**Functional:**
- Functional Requirements ATP
- Further Requirements Definition
- Additional Business Process Reengineering (BPR)
- DOTMLPF-P Actions

**PMO:**
- Finalize Acquisition Approach
- Execute initial contract action
- Develop materials in support of BCAC Phase 3

### Stakeholders

- AMC, FM&C, OBT, CIO G-6, G-4, and CASCOM

### Users (Future)

- 200,000+ finance, logistics, real property and environmental management users across the Army

### Software / Technology Stack

- Composable ERP with Transactional Core, Enterprise Service Bus, Non-ERP SaaS / PaaS solutions and microservices

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**Abbreviations:**
- AESIP = Army Enterprise Systems Integration Program
- AMC = Army Materiel Command
- CIO = Chief Information Office
- CRD = Change Requirements Document
- ERP = Enterprise Resource Planning
- FM&C = Financial Management and Comptroller
- GCSS-Army = Global Combat Support System - Army
- GEBS-SA = General Fund Enterprise Business System - Sensitive Activities
- GFEBS = General Fund Enterprise Business System
- HQAES = Headquarters Army Environmental System
- IPPS-A = Integrated Personnel and Pay System - Army
- LMP = Logistics Modernization Program
- OBT = Office of Business Transformation
- OTA = Other Transaction Authority
- PaaS = Platform as a Service
- SaaS = Software as a Service
Global Force Information Management (GFIM)

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

<table>
<thead>
<tr>
<th>Capabilities</th>
<th>FY22 Program Priorities</th>
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<tbody>
<tr>
<td>• Presents near real time Global Force Management (GFM) insight of Army formations down to team level at rest and in motion</td>
<td>• Completion of GFIM Prototype Phase 1 (focused on six legacy systems providing ‘at rest’ Army Force Management data)</td>
</tr>
<tr>
<td>• Automates FM functions enabling Deploy to Redeploy/Retrograde (D2RR), DOD GFM, and Joint C2 processes</td>
<td>• Award of Phase 2 (providing ‘in motion’ Army Force Management data)</td>
</tr>
<tr>
<td>• Authoritative, open data platform for the exchange of unclassified/classified force structure, GFM, and readiness data</td>
<td>• Integration with the G-3 Data Lake</td>
</tr>
<tr>
<td>• Distributes Global Force Management – Data Initiative (GFM-DI) compliant authoritative data</td>
<td>• Foundation of fundamental Force Management processes and data</td>
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<table>
<thead>
<tr>
<th>Stakeholder</th>
<th>Users</th>
<th>Software / Technology Stack</th>
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</thead>
<tbody>
<tr>
<td>G-3/5/7</td>
<td>160,000+ Army wide Combatant Commanders from Company to Division</td>
<td>Cloud based, open source, no/low code</td>
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**Logistics Information Systems (LIS)**

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

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<thead>
<tr>
<th>Capabilities</th>
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</thead>
<tbody>
<tr>
<td>• Standard Army Ammunition System (SAAS): Legacy system for tactical ammunition supply management</td>
<td>• Maintain SAAS operational viability, cybersecurity readiness, and server availability to support tactical and installation ammunition management operations world-wide</td>
</tr>
<tr>
<td>• Property Book Unit Supply Enhanced (PBUSE): Legacy system for property accountability and unit supply operations. Used as a stand-alone capability in 2 Cmds for classified property accountability.</td>
<td>• Maintain PBUSE application software’s cyber readiness and functional capabilities until an objective classified capability is delivered</td>
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<thead>
<tr>
<th>Stakeholders</th>
<th>Users</th>
<th>Software / Technology Stack (SAAS)</th>
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</thead>
<tbody>
<tr>
<td>HQDA G-4/6 (Proponent) CASCOM (Cap Dev) JMC</td>
<td>385 SAAS authorizations (TOE/TDA ASPs, ATHPs, or DMCs) 560+ SAAS users accounts</td>
<td>SAAS: centralized server architecture hosted by ALTESS Data Center / Remote operations server access via CAISI-VSAT PBUSE: centralized Oracle SPARC server architecture</td>
</tr>
</tbody>
</table>
## Procurement Opportunities

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>PROCUREMENT TYPE</th>
<th>DESCRIPTION</th>
<th>OFFICE</th>
<th>CONTRACT / TYPE</th>
<th>ESTIMATED AWARD DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIS</td>
<td>SERVICES</td>
<td>PBUSE PDSS/Capability Support</td>
<td>ACC-RI</td>
<td>CPFF</td>
<td>2QFY22</td>
</tr>
<tr>
<td>ATIS</td>
<td>SERVICES</td>
<td>Army e-Learning</td>
<td>MICC-Ft. Eustis</td>
<td>FFP</td>
<td>2QFY22</td>
</tr>
<tr>
<td>EBS-C</td>
<td>SERVICES</td>
<td>EBS-C OTA</td>
<td>ACC-RI</td>
<td>OTA</td>
<td>FY22</td>
</tr>
<tr>
<td>ATIS</td>
<td>SERVICES</td>
<td>Digital Training Facility Managers</td>
<td>MICC-Ft. Eustis</td>
<td>FFP</td>
<td>3QFY23</td>
</tr>
<tr>
<td>Army Vantage</td>
<td>SERVICES</td>
<td>Enterprise Data Analytics Platform</td>
<td>ACC-NJ</td>
<td>TBD</td>
<td>4QFY23</td>
</tr>
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**EBS-C Industry Day – December 2021**
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Vendors may request a meeting with our programs at: [https://theforge.force.com/peoeis/s/](https://theforge.force.com/peoeis/s/)

AESIP = Army Enterprise Systems Integration Program  
GFIM = Global Force Information Management  
AMIS = Automated Movement and Identification Solutions  
LIS = Logistics Information Systems  
EBS-C = Enterprise Business Systems Convergence
The Army relies on PEO EIS

Connecting the Army. Working for Soldiers.

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