Army Enterprise Systems Integration Program (AESIP)  
Break-Out Session  
AFCEA Belvoir Industry Days  
21 March 2019

Distribution Statement A. UNCLASSIFIED//Approved for Public Release
## AESIP Overview

PM AESIP manages a portfolio of enterprise logistics business systems to support Army Readiness.

### 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

### 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

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

### Expands existing logistics capabilities
- Brings aviation logistics to the enterprise
- Enables transactional data auditability
- Improves asset visibility
- Includes current dashboard views
- Modernizes Army Pre-positioned Stock
- Sunsets legacy logistics systems

### National-level logistics ERP system
- Supports Depot and Arsenal operations
- Automates industrial base shop floor
- Integrates asset management components
- Increased order tracking visibility
- Greater oversight of material movement

### 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
GCSS-Army Increment 1
• Efforts underway to transition sustainment operations to the CECOM Army Shared Services Center

GCSS-Army Increment 2
• Wave 1:
  – Design and development efforts for software release 1; begins government test in April
  – Scheduled for an Authority to Proceed decision in Q4FY19
• Wave 2:
  – Awaiting approval to award contract

AESIP Hub
• Commercial cloud proof of concept for BI/BW
• Converged with the Logistics Information Warehouse (LOGSA/LDAC)
• Planning is underway to support the Army Leader Dashboard expansion of logistics data sources
GCSS-Army Increment 2 Overview

Enterprise Aviation (EAVN) Wave 1

- Delivers Single Solution for Aviation Fleet Management
- Brings Army Aviation maintenance into the Enterprise, allowing for continuing airworthiness in a disconnected environment
- Sunsets entire fleet of Unit Level Logistics Systems – Army (Enhanced) ULLS-A(E) and Unmanned Aircraft Systems - Initiative (UAS-I)
- Software Release 1 enters government testing April 2019

Business Intelligence/ Business Warehouse Wave 2

- Expands near real-time readiness reporting and analytics
- Provides centralized/integrated supply-chain, maintenance, financial data and readiness (e.g., dashboards)

Army Prepositioned Stock (APS) Wave 3

- Enables rapid deployment in 96 hours or less
- Eliminates paper records and Automates the handoff of equipment in battle space
- Sunsets Army War Reserved Deployment System (AWRDS)

GCSS-Army Increment 2 will provide integration of Aviation to the Army Enterprise and provides near real-time view of Operational Readiness to Commanders
# AESIP Hub Capabilities

## Overview
AESIP provides the system’s enterprise hub services, centralized master data management, and business intelligence/analytics.

*Source: GCSS-Army Inc 1 CPD, 11 March 2011*

## Statistics
- 231,566 unique users
- 32,000 active users over last year, 11,830 over last month
- 53,246 report refreshes/month over last year
- 22 million material master records
- 568 interfaces across 54 trading partners

<table>
<thead>
<tr>
<th>Function</th>
<th>Capabilities</th>
<th>Projects in Progress</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Master Data Management (MDM)</strong></td>
<td>• Authoritative Data Sourcing (Equipment, Materiel, Customer/Vendor)</td>
<td>• Add Aviation Equipment Master Data</td>
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<tr>
<td></td>
<td>• End-to-end Data Management</td>
<td>• Expand customer and organization identifier data</td>
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<tr>
<td><strong>Enterprise Hub Services (EHS)</strong></td>
<td>• Data Brokering and Integration</td>
<td>• Support Army Leader Dashboard expansion of logistics data sources</td>
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<tr>
<td></td>
<td>• Enterprise Enclave Management for Common Services</td>
<td>• Establish Enterprise Identity Management</td>
</tr>
<tr>
<td>**Business Intelligence/</td>
<td>• Data Foundation (ERP, Hadoop, Oracle)</td>
<td>• Enhance and Integrate Data Foundation</td>
</tr>
<tr>
<td>Business Warehouse (BI/BW)**</td>
<td>• Reports</td>
<td>• Expand Data Visualization and Analytics</td>
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<tr>
<td></td>
<td>• Visualization</td>
<td>• Transition Static Reports → Self Service Business Intelligence</td>
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<tr>
<td><strong>Operational Projects</strong></td>
<td></td>
<td>• Execute Commercial Cloud Proof of Concept for BI/BW (Hybrid)</td>
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<td>• Transition Capability Support to Army Shared Services Center</td>
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**ERP** = Enterprise Resource Planning  
**CPD** = Capability Production Document  
**GCSS-Army** = Global Combat Support System-Army
AESIP HUB Architecture

Army Enterprise Portal

Reports

- Transactional & BI
  (BI Analytics & Master Data)
- Dual
  (Transaction & Non-Transaction)
- Non-Transaction
  (BI Analytics)

Vendor Reporting Tools

- Connectivty
- Integration
- Masking
- Quality
- MetaData Management

Data Virtualization
denodo

Integration

- ERPs
  - SAP PI
  - SAP SLT
  - SAP Data Services
  - SAP Info Steward
  - Hadoop NiFi

Master Data

- Equipment Master
- Customer/ Vendor
- Asset Master
- Material Master

Data Warehouse / Big Data

- HANA Database
- Data Lake
- Data Staging Area (DSA)

Access Control & Cybersecurity

- Access Control Management
- Cyber Monitoring/Compliance
- Help Desk/ Ticketing
- Vulnerability Scanning & Management

Equipment
- Master
- Customer/ Vendor
- Asset
- Material

Material
- Master
- Data Warehouse / Big Data
- HANA Database
- Data Lake
- Data Staging Area (DSA)

54 Trading Partners
Approx 568 Interfaces
Where We Need Industry Input

- Hybrid Cloud
  - Data Sources On Premise
  - Data Consumers In Cloud
- Data Platforms
  - Disparate Data Sources
  - Data Integration
  - Data Virtualization
- Data Management / Data Modeling
  - Data Governance / Authoritative Data Sourcing
  - Data Quality
  - Data Catalogs
- Self-Service Business Intelligence
  - Governance
  - Analytic Tools
### 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>
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<tbody>
<tr>
<td>AESIP</td>
<td>SERVICES</td>
<td>PMO SUPPORT</td>
<td>ACC-RI</td>
<td>GSA</td>
<td>Q1-2020</td>
</tr>
<tr>
<td>AESIP</td>
<td>SERVICES</td>
<td>TECHNICAL SUPPORT AND DEVELOPMENT EFFORTS FOR MULTIPLE PROGRAMS (AESIP HUB, AMIS, GCSS-ARMY, AND LIS)</td>
<td>ACC-RI</td>
<td>OASIS</td>
<td>Q1-2020 (NOV)</td>
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<tr>
<td>AMIS</td>
<td>SERVICES</td>
<td>NEXT GENERATION TRANSPONDER – NGT (SATELLITE TRANSPONDER INITIATIVE)</td>
<td>ACC-RI</td>
<td>IDIQ</td>
<td>Q1-2020</td>
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<tr>
<td>AMIS</td>
<td>SERVICES</td>
<td>RADIO FREQUENCY – INTRANSIT VISIBILITY (RF-ITV IV)</td>
<td>ACC-RI</td>
<td>TBD</td>
<td>Q1-2020</td>
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<tr>
<td>LIS</td>
<td>SERVICES</td>
<td>HARDWARE SOFTWARE INTEGRATION SUPPORT SERVICES (HSISS)</td>
<td>ACC-RI</td>
<td>GSA (VETS)</td>
<td>RELEASE DATE: 13 MARCH 2019 PROPOSAL/RESPONSE DUE DATE: 27 MARCH 2019</td>
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<tr>
<td>GCSS-ARMY INC 2</td>
<td>SERVICES</td>
<td>WAVE 2 BUSINESS INTELLIGENCE/BUSINESS WAREHOUSE ENHANCEMENT</td>
<td>ACC-RI</td>
<td>ARMY ERP SERVICES SBIDIQ</td>
<td>Q2/3-2019</td>
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* CECOM is coordinating with ACC-RI for the release of a Capability Support (sustainment) Services Contract to support the ERPs; estimated award date is Q1-2020
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