Assistant Program Executive Officer
Business Mission Area (BMA)
PEO EIS

AFCEA BELVOIR Industry Days
21 March 2019

Colonel Ed Barker
WHO WE ARE

WE ARE the Army’s trusted network and software acquisition professionals.

WE BELIEVE that the Soldier is the centerpiece of everything we do.

WE SUPPORT the Total Army and serve as a committed teammate.

WE ENSURE that the Army’s networks, logistics, HR, finance, business systems and cyber defense support anything a Soldier and the Army need to do the job, every day.

WE GET Soldiers to the fight, support the fight and bring them home safe.

WE ARE PEO EIS.
Connecting the Army. Working for Soldiers.
WORKING FOR SOLDIERS

From recruitment to retirement, home station to foxhole, our systems support Soldiers every day around the world making sure they’re ready to fight tonight.
MISSION & VISION

Mission
Rapidly deliver *integrated, innovative and cost-effective* systems and services for the Total Force, to globally connect the Army and provide a decisive information advantage to every Soldier.

Vision
Be the recognized leader in delivering *integrated and cost-effective* information systems and information technology solutions across the Department of Defense.
Topics from the *Business Mission Area*

- Post-Modern ERPs
- Army Leader Dashboard
- Cloud Pilots
What the Soldier Won’t See – Complexity

AESIP = Army Enterprise Systems Integration Program
GCSS-Army = Global Combat Support System – Army
GFEBS = General Fund Enterprise Business System
IPPS-A = Integrated Personnel and Pay System – Army
LMP = Logistics Modernization Program
OEM = Original Equipment Manufacturer

AESIP Profile
Common Services: GRC, BI, Data Center, Common Enclave, ELAs, Master Data

LMP
AWCF System of Record
LMP Profile
81 Partner Systems
96 Unique Interfaces
32,000 Users

PR / PO

GFEBS
GFEBS Profile
49 Partner Systems
151 Unique Interfaces
1,650 Funds Ctrs
57,000 Cost Ctrs
37,000 Users
66M Transactions

National Maintenance Program Billing

Funds Distribution
Reimbursable Execution
Financial Mgmt. Data
Trial Balance / Status of Funds
Cost Reporting

Military Payroll / Payables
Receivables

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

IPPS-A
IPPS-A Profile
80 Partner Systems, 112 Unique Interfaces, 1.1M Users

GCSS-A
GCSS-A Profile
27 Partner Systems
114 Unique Interfaces
154,000 Users

-existing
-planned

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Army’s ERP Modernization & Integration Plan – Modernization Tracks

- **Track 1 – ERP Operational Capabilities Enhancement**: Supporting the Army enterprise and each functional domain’s requirements for enhancements of Army ERPs to align with the proponents’ / Army enterprise priorities (Domain 1 to N lists/ Army BRIC/ABC priorities).


- **Track 3 – Enterprise-Wide Data Analytics**: Army Leadership Dashboard (ALD), Enterprise Data Analytics (EDA), Enterprise Universe of Transactions (EUOT) and Logistics, Financial Enterprise Reporting and Analytics.

- **Track 4 – Commercial Cloud Hosting Common Enclave Migration**: Analysis of approaches for and execution against plans for migration of Army ERP and other business system programs to a commercial cloud hosting common enclave.

- **Track 5 – ERP De-customization**: Analysis of dormant code (inactive RICEFW) and other customizations to minimize ERP program custom code to support sustainability/ cost efficiency and in preparation for ERP program baseline modernization.

- **Track 6 – Transactional Agility Capabilities Enablement**: Analysis of capabilities that are better suited to non-ERP (i.e., best of breed) solution delivery to address cost, schedule and operational business process efficiencies while still enabling standardization / integration.

- **Track 7 – Solution Innovation Components**: Assessment, prototyping and production release of innovations (e.g., tools/ platform standardization, user empowerment / self-service, RPA, AI).

- **Track 8 – SAP HANA S/4 Planning**: Development Roadmap Analysis, ERP Programs Instance Consolidation Analysis, SAP Capabilities Development Advocacy.
Army Leader Dashboard
What is the Army Leader Dashboard?

**Mission:** To organize and integrate all Army data, to make it accessible and understandable to inform strategic decisions

**Vision:** Generate strategic advantage for the Army through data

**System Features / Critical Functionality:**
- Commercially available software solution/web-based technology
- Available on desktop, laptop, tablet, and mobile (NIPR/SIPR)
- Access to real and near real time Authoritative Data Sources
- Highly configurable to individual users
- Data management solution - classified/unclassified
- “Plain Text” search capabilities (Google-like)
- Immediately understandable and actionable
- Intuitive, interactive, large-scale data exploration tools to filter billions of pieces of data through point and click
- Easily configurable, “Ticker Tape” banner with alerts
- Data ingestion, cleansing, and analytics / Geospatial services
- Provide future predictive analytics (5, 10, 20+ years into the future)
- Integrates, analyzes, and visualizes private and public disparate data
- Solution will be scalable (6,000+ users) across the Army to ensure subordinate Commanders have access to the same data
- Not a transaction system

**Supporting the Army’s Strategic Objectives**

- **Readiness**
  Provide Army leaders near real-time visibility and access to Army data sources, facilitating rapid decision making while supporting strategic, operational, and tactical planning.

- **Future Army**
  Standardize the way the Army views and manages current and legacy, structured and unstructured ADS, to provide an actionable view to support senior leader decisions.

- **Take Care of the Troops**
  A continuous real time perspective into the pulse of the entire Army – Soldiers, civilians, and their families.
OTA Procurement Process
Prototyping Up Front to Deliver a Production Ready System

- Chief of Staff of the Army (CSA) and Under Secretary of the Army (USA) gave guidance to deliver the ALD via a rapid acquisition process that includes senior Army leaders in the user assessment
- CSA assessed that no Government-Off-The-Shelf or Commercial Solutions currently in use by the Army meet the ALD requirement.
- USA directed that ALD “...is not a development program”, and further documented in the Directed Need Statement “the product and/or capability should be commercially available now”
- An Other Transaction Authority Agreement (OTA) is being used to facilitate a rapid contract approach through prototyping phases
- ALD capability will be matured using an Agile management methodology, involving frequent user feedback

Current = (5) Other Transaction Agreements (OTA)
- Phase 1 = Aug – Dec 2018: 5 Prototypes ingest Army data (from 62 sources) and complete Senior Army leader feedback sessions
- Phase 2 = Dec 2018 – Aug 2019: 2 Prototypes (150+ users) ingest more data, demonstrate Business Processes, receive desktop solution feedback, complete Cybersecurity validation to operate on Army Unclassified (NIPR) and Classified (SIPR) Networks, move hosting to Cloud
- Production = Aug 2019 + 5 years: 1 Solution (to up to 6,000 users)

- 31 July 2017, ALD went to Budget, Requirements and Program (BRP) ultimately resulting in an Above Threshold Reprogramming (ATR) for $17M in RDT&E, submitted to Congress in September of 2017
- 10 May 2018, ATR was approved for $7.4M (FY17 RDT&E) & Solicitation was released
ERP CLOUD PILOT
Business Systems
Cloud Pilot

Commanders Intent:
This effort will track cloud migration related activities such as network and application performance with key performance indicators and sound metrics for a decision to production.

The scope of this effort will:
- Host ARMY ERP Systems in a Cloud Service Provider consuming Platform as a Service (PaaS)
- Address Cybersecurity as an evaluation criterion
- Leverage Year End FY18 OMA dollars
- Commence migration of General Fund Enterprise Business System and Army Enterprise System Integration Program
- Evaluate migration activities IAW establish criteria within 6 months of migration commencement
# Cloud Pilot Objectives

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<thead>
<tr>
<th>AESIP Pilot</th>
<th>GFEBS Pilot</th>
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<tr>
<td><strong>Pilot End Goal:</strong></td>
<td><strong>Creation of Sandbox environment and begin migrating development environment of SAP ECC.</strong></td>
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<td>Full migration of development and test environments for Business Intelligence (BI) and Business Warehouse (BW).</td>
<td>Execute migration of ECC landscape.</td>
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<td>Continue migration through production environments.</td>
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<td><strong>Contract Type:</strong></td>
<td><strong>Cost Plus Fixed Fee</strong></td>
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<td>Firm Fixed Price</td>
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<tr>
<td><strong>Pilot Cost (6 Months):</strong></td>
<td><strong>$5.2M</strong></td>
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<td>$4.3M (Does not include annual hosting)</td>
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<td><strong>System Integrator:</strong></td>
<td><strong>IBM, subcontracting to SAP NS2</strong></td>
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<tr>
<td>SAP NS2</td>
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<td><strong>Pilot Focus:</strong></td>
<td><strong>Build out System 14 Cloud Virtual Machines</strong></td>
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<tr>
<td>Successful migration of development environment</td>
<td>Secure operating systems</td>
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<td>Successful demonstration of DEV (N+1) provisioning</td>
<td>Perform software upgrade</td>
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<td>Successful demonstration of new capability provisioning</td>
<td>- HANA and Solution Manager upgrades in Cloud</td>
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<td>Quick deploy application and/or data</td>
<td>- Apache ECC, BOBJ, SLT</td>
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<td>Successful Disaster Recovery (DR) demonstration</td>
<td>Migrate configuration and test data sets</td>
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<tr>
<td>Successful demonstration of scaling system</td>
<td>- ECC, BW/HANA</td>
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<td>Assess network performance</td>
<td>High Availability (HA) testing</td>
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We must be able to use the cloud like a utility and contract accordingly.
Future ERP Platform Landscape

Governance Platform

Logistics  Finance  HR  AESIP

Shared Functionality

Shared Data

Manage Interactions

Manage Transactions

Core Capabilities

Leverage Platform Technology
Cloud Pilot
Lessons Learned

Contractual
- Army maximizes best value with Cost-Reimbursement contract types.
- Cloud contract should be structured like a utility contract (DPW)
  - FAR Clause 41 for utilities Cost-reimbursement contract (IDIQ)
  - DFARS 239.7602-1 Directs Cloud Computing activities and focuses on disposition of Data in the Cloud
  - DFARS 252.239.7010 in all Cloud contracts addresses security and KO responsibilities
- As of today the Cloud contract structure direction is limited in the FAR
- This is an opportunity for the Army to develop a cloud contract structure that will support future requirements

Technical
- Army needs to define its own standards and practices to maximize enterprise efficiencies.
  - For example, one process for creating and managing virtualized containers using a specific cloud host’s standard tools.
  - Requires resourcing and prioritization of efforts based on critical path activities
- Engage with DISA early in order to facilitate cloud connectivity through the CAP.
- Streamline each Program’s migration with consistent processes and common services.

Propose Pilot for Utility Computing with Shared Savings Incentives
Questions