EDA Tech Refresh

Presented by:
Adarryl Robert, DLA
Terry Ford, DPAP
Why Refresh EDA?

• Electronic Document Access (EDA) is a web-based document repository that combines 1990s internet and web technologies with electronic document management capabilities to minimize paper copies of contract files and provide data for pre-populating DOD financial systems.

• The system architecture consists of the communication, data translation and conversion, computing, and infrastructure components necessary to support the application.

• EDA’s architecture and infrastructure are outdated and needs to be refreshed and reengineered including updates to software and hardware components.
Application Rationalization

- Over last 20+ years, capabilities have been added to EDA well outside of planned system’s scope.
- Senior level discussions with DFAS have resulted in removing some capabilities from EDA and relocating them to more appropriate existing enterprise solutions.

<table>
<thead>
<tr>
<th>EDA Capability</th>
<th>Post Refresh Solution</th>
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<tbody>
<tr>
<td>EDM/ EFR Access</td>
<td>Link via PIEE, Account Management via EDM/ EFR</td>
</tr>
<tr>
<td>Payment Vouchers Registration and Access</td>
<td>PIEE Single Sign On to Corporate Electronic Document Management System (CEDMS)</td>
</tr>
<tr>
<td>Electronic 110s</td>
<td>Data will reside in Operational Data Store (ODS) (Nov 2018) OR DCAS in Future (Feb 2019)</td>
</tr>
<tr>
<td>DD577s</td>
<td>PIEE specific 577s will be processed via Joint Appointment Module All others can be migrated to CEDMS</td>
</tr>
<tr>
<td>GBLs and Transportation Requests</td>
<td>Short Term: These documents will remain in EDA 6.0 Longer Term: Document Automated Content Services (DACS)</td>
</tr>
<tr>
<td>Legacy EDA Contract Deficiency Reports (CDRs)</td>
<td>Work to Completion or re-open in PIEE CDR Tool</td>
</tr>
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EDA Tech Refresh Approach

- The reengineering of EDA will include a major shift from PDF/document lookup and management to a data focused reporting capability.
- The new architecture will incorporate modern data driven technologies:
  - PBIS = Oracle relational database
  - Data Lake = Hadoop big data open source tools
**Electronic DATA Access (EDA)**

- Rationalized EDA Capabilities:
  - Contract Document Search and Retrieval
  - PDS Rendering and Conformance

- Data Lake Capabilities:
  - Enterprise Award File
  - Existing Data Lake Reports
  - Future Tactical Reports

**Procurement Business Intelligence Service (PBIS)**

- FPDS MRS:
  - Central DoD Report Generation for FPDS Data

- Verification and Validation:
  - Supports Formal V&V sessions

- Active Contract Repository:
  - Supports Pre-population of Contract Data Across PIEE

**Management Reporting System (MRS)**

- Existing WAWF Reporting Tool:
  - Account Management
  - iRAPT
  - EDA
  - CORT
  - CDR
  - Contract Closeout
  - Others

- Future State:
  - Targeted to Migrate Reporting Capabilities to EDA
  - Reduce Number of Reports While Expanding Ability to Support Multiple Organizations with Single Report
PDS Data Extraction and Storage

- Specific data elements of interest for the award and each modification are extracted and ingested by EDA to support query capabilities (when PDS is not in Evaluation status).

PDS data for Contract XXX Award

PDS CCV Data for Contract XXX Mod Pyyy or Ayyy

Header, LOA, CLIN, Clause

Header, LOA, CLIN, Clause
PDS Conformance in PBIS

Data Warehouse
- Individual actions stored

Data Mart
- Conformed Data
  - Data are applied (conformed) to individual data elements

Active Contract Repository
- When PDS is missing or in evaluation status, use legacy to fill in gaps

PDS Awards and Mods

Legacy XML Awards and Mods
PDS Conformance in PBIS

- PDS award and modification data are stored in the PBIS Data Warehouse as individual actions
- PDS modifications are ordered and applied to awards
- Any issues are recorded in the conformance log and the resulting PDS data elements are stored at the individual data element level within the Data Mart tables
- Some values from the original award (Document Form, initial Signature and Effective Date) are retained in Data Mart
- Conformed data used to populate Active Contract Repository when PDS is not in evaluation status with Synopsis XML filling in the gaps.
## Differences Between EDA and PBIS Conformance

<table>
<thead>
<tr>
<th>EDA</th>
<th>PBIS</th>
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</thead>
<tbody>
<tr>
<td>Favors completeness over availability. This is driven by the</td>
<td>Favors availability over completeness</td>
</tr>
<tr>
<td>requirement to display a PDS data based complete</td>
<td></td>
</tr>
<tr>
<td>representation of the contract to users.</td>
<td></td>
</tr>
<tr>
<td>Creates and stores a new version of the contract for each</td>
<td>Creates and stores contract data based on the latest modification</td>
</tr>
<tr>
<td>modification received</td>
<td></td>
</tr>
<tr>
<td>PDS Version Dependent (e.g. PDS 2.4 mods applied to a 2.3 base</td>
<td>PDS Version Independent</td>
</tr>
<tr>
<td>result in 2.3 CCV)</td>
<td></td>
</tr>
<tr>
<td>Validates conformed data at the GEX</td>
<td>Does not validate conformed data at the GEX</td>
</tr>
<tr>
<td>One mistake in conformance can fail the entire CCV, preventing</td>
<td>Conforms as much data as possible and records differences in</td>
</tr>
<tr>
<td>data from that CCV from being used</td>
<td>conformance log</td>
</tr>
<tr>
<td>Creates a human readable version of the PDS contract data</td>
<td>Does not produce a human readable version of the PDS contract data</td>
</tr>
<tr>
<td>Data for each conformed modification is available for query</td>
<td>The most recent version of conformed contract data is available for</td>
</tr>
<tr>
<td>Only a defined subset of data from each conformed</td>
<td>All PDS successfully conformed data elements in that version</td>
</tr>
<tr>
<td>modification is extracted and available for query</td>
<td>are available for query</td>
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</table>

2018 Procure-to-Pay Training Symposium
Discussion

What do you like about EDA?

What do you dislike about EDA?

What changes could be made to EDA to make your job easier?

Think of an idea after the Symposium?

We would love to hear from you.

Please send your feedback to:
Ajay Endlaw (Ajay.Endlaw@dla.mil) and Jenna Tomalka (Jennifer.Tomalka@dla.mil)