Logistics Transformation Capability Initiatives

Ms. Keely Galloway
AF/A4PT
6 June 2017
Agenda

- AF/A4PT Mission
- Capability Initiative Overview
- Item Master / Class V Initiative
- Supply Initiative
- Field Mx Initiative
AF/A4PT Mission Description

- **Mission**: Drive Transformation through standardized Business Process Reengineering (BPR), project management, and integration across the Logistics Enterprise

- **Staff**: 6 Civilian Logisticians and approximately 36 contractors, with functional responsibility for guiding AF Logistics Transformation initiatives through development

  - Lead process facilitator for Logistics BPR; coordinating with and supporting PEO/BES and program offices through development & delivery
  
  - Standardize use of transformational BPR; ensuring repeatable & agile processes
  
  - Responsible for cross-initiative Integration and alignment with Enterprise Logistics Flight Plan and Technology Annex

  - Ensure Transformation is achieved via rigorous Business Process Reengineering and COA selection to deliver the best fit solution

---

**Timeline**

<table>
<thead>
<tr>
<th>Event</th>
<th>Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTO established under AF/A4I</td>
<td>2006-10</td>
</tr>
<tr>
<td>ECSS Cancelled</td>
<td>2011</td>
</tr>
<tr>
<td>2012</td>
<td></td>
</tr>
<tr>
<td>AF/A4I merged into AF/A4P</td>
<td>2013</td>
</tr>
<tr>
<td>AF/A4PT tasked with Post-ECSS Strategy</td>
<td>2014</td>
</tr>
<tr>
<td>AF/A4PT transition to AFMC</td>
<td>2015</td>
</tr>
<tr>
<td>SDDP</td>
<td>2016</td>
</tr>
<tr>
<td>BCAC</td>
<td>2017</td>
</tr>
</tbody>
</table>
**Capability Initiatives Currently Underway**

<table>
<thead>
<tr>
<th>Item Master</th>
<th>Supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provide standardized and configured Item data from a single authoritative source; ensuring foundational logistics processes are executed using the same data source</td>
<td>Simplified, standardized processes to fundamentally enhance the business operations for the Air Force Supply community</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field Maintenance</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Force’s field maintenance community capabilities across Mission Generation Network and Repair Network business areas</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Lifecycle Management (PLM)</th>
<th>Enterprise Supply Chain Analysis, Planning &amp; Execution (ESCAPE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standardized technical data that is configuration managed from a single authoritative source to provide a foundation for downstream logistics processes</td>
<td>Integrated capability for managing supply chain planning as a component of an overall logistics approach to optimize weapon system availability, improve maintenance operations, and effectively position assets</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Maintenance Repair and Overhaul (MRO)</th>
<th>Government Furnished Materiel – Accountability (GFM-A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard depot maintenance operations supported by agile and integrated planning, scheduling, and execution processes</td>
<td>Property accountability / control of contractor managed and possessed government materiel</td>
</tr>
</tbody>
</table>
### A4 Capability Initiatives

**LCI**

<table>
<thead>
<tr>
<th>Item Master / Class V</th>
<th>FY 13</th>
<th>FY 14</th>
<th>FY 15</th>
<th>FY 16</th>
<th>FY 17</th>
<th>FY 18</th>
<th>FY 19</th>
<th>FY 20</th>
<th>FY 21</th>
<th>FY 22</th>
</tr>
</thead>
</table>

**GFM-A**

<table>
<thead>
<tr>
<th>Supply</th>
<th>FY 13</th>
<th>FY 14</th>
<th>FY 15</th>
<th>FY 16</th>
<th>FY 17</th>
<th>FY 18</th>
<th>FY 19</th>
<th>FY 20</th>
<th>FY 21</th>
<th>FY 22</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>![S:1]</td>
<td>![S:2]</td>
<td>![S:3]</td>
<td>![DPAS Solution]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Mx**

<table>
<thead>
<tr>
<th>Field Mx</th>
<th>FY 13</th>
<th>FY 14</th>
<th>FY 15</th>
<th>FY 16</th>
<th>FY 17</th>
<th>FY 18</th>
<th>FY 19</th>
<th>FY 20</th>
<th>FY 21</th>
<th>FY 22</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>![S:1]</td>
<td>![S:2]</td>
<td>![S:3]</td>
<td>![Acquisition]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**BPR Step:**

- ![S:1] Limited Fielding
- ![S:2] Limited Fielding
- ![S:3] Limited Fielding
- ![S:4-6] Limited Fielding

**ECDs are draft**

**Contract Start**

**MDD Approved**

**MDD Anticipated**

---

*Breaking Barriers ... Since 1947*
Incremental Agile Development Accelerates Value Delivery

Traditional ACQ in DoD

- Process & Document driven
- Costs and Risks grow over time
- Success = Meeting Milestones
- Value delivered late (if at all...)

Timeline scale in Quarters & Years

Scaled Agile Framework

- Minimal Documentation
- Costs & Risks go down over time
- Success = Delivered Code/System
- Value delivered Early & Often

Timeline scale in Weeks & Months
Item Master Background

- IMLCI addresses logistics data challenges: single source of truth, configurable views, visible at all levels, foundational item data capability
- SDDP Step-3 COA/AoA process identified a reusable USMC PM-Ammo solution that met >80% of requirements OOTB
- 4 Mar 16, AF/A4 approved 9-month Risk Reduction Effort that includes:
  - Configuration and demonstration of AF business processes, data structures, and 100 named user licenses
  - Direct OEM/Commercial support with Agile development
- 18 Mar 16, PEO/BES approved funding for RRE; contract award 20 Jun 16

**Risk Reduction Effort**

- Sprint 1: 3000 AF Items
- Sprint 2: 250 Attributes
- Sprint 3: 5 Interfaces
- Sprint 4: Complete Round Code
- Sprint 5: IUID Lifecycle Mgmt
- Sprint 6: Org/Shop Vis/Movement
- Sprint 7: Disconnected Ops

**AF Item Data Mgmt**
- Munitions Mgmt

**PM-Ammo Ground Only**

- PM-Ammo
- FIAR
- DLMS
- IUID
- Agile
Item Master & Munitions Management Scope

**IMLCI Scope**
Core Lifecycle Logistics (Items)
- Centralized Item Data
- Provisioning
- Cataloging
- Enable Transformation (Foundation)

**CTMA 1.0 Scope**
Risk Reduction Effort
- Validate COA capability
- Prove through Class V
- Enabled Transformation
- Supply Chain Management
  - Disconnected Ops
  - Complete Round
  - TAV – IUID - ITV

**CTMA 2.0 Scope**
Prototype to Production
- DoD 5000.75
- Finalize IM/Class V Requirements
- CTMA 1.0 Production Ready Capability
- Evaluate “Munitions Cluster” for opportunities

Prototype to Production Effort will Subsume All 11 IMCS Systems and 7 of 9 Munitions Mgmt Systems
Item Master & Munitions Mgmt
Supply Capabilities

Enables Complete Supply Logistics Capability
- Providing Total Asset Visibility across the Supply Chain
- Providing accurate Supply accountability, reducing on-hand inventory
- Reducing Cannibalization Rates, MICAPS and Backorders
- Delivering required Financial information
- Providing Lifecycle Asset Management

Enhance AF decision making - Improve Combat Support to the Warfighter
Key Features and Benefits

**Order Management**
- Manage Orders
- Manage Order Fulfillment
- Manage Returns
- Maintain Order Management Setup Data
- Standardized OM processes across Wholesale and Retail
- Optimized material release logic
- Streamlined and automated order authorizations for items requiring special handling

**Inventory Management**
- Material Receiving
- Warehouse Management
- Inventory Management
- Material Shipping
- Improved Warehouse Utilization
- Increased Inventory Control & Accuracy
- Eliminate manual processes around shelf-life maintenance
- Direct routing of unserviceable repair

**Procurement**
- Manage PR Package
- Manage Vendor / Suppliers
- Manage Requisitions
- Improved Requisition status visibility
- Standardized Purchase Request (PR) and MIPR Package processes
- Improved PR and Contract (award) status visibility

**Asset Management**
- Planning (Allowance Standards & Authorizations)
- In-use Accountability
- Lifecycle Asset Management
- Aligned Equipment processes with Standardized Supply Process
- Reduce manual validation processes
- Accurate and Compliant financial reporting

As of 7 Sep 16
The Field Mx initiative will improve the Air Force Field Maintenance communities’ capability across Mission Generation Network and Repair Network business areas—addressing planning, scheduling, execution & oversight functional deficiencies:

- Poor maintenance documentation
- Poor configuration management
- Lack of visibility and traceability of assets
- Lack of Capability and Capacity (CAP2) visibility across all repair nodes
- Inefficient communication with and support from engineering, supply and depot mx
- Lack of resource (personnel, infrastructure, equipment) optimization
- Ill-informed and untimely decision making
- FIAR mandates are not being met
- IT that does not support enhanced maintenance capabilities required by emerging weapon systems as evident in 5th generation aircraft fleets
- Lack of enterprise-wide visibility of repair
- Inefficient enterprise-wide communication

Field Mx Overview & Capabilities

Field Mx

- **Capability 1**
  - Enhanced Work Control

- **Capability 2**
  - Optimized Mx Support

- **Capability 3**
  - Net-centric Mx Support

- **Capability 4**
  - Agile and Consistent Mx Decision Support
Field Mx

Key Features and Benefits

**Capability 1**
Enhanced Work Control

- Standardizes MGN and RN processes and content
- Captures and provides visibility of Mx activities
- Supports assistance requests with engineering
- Improves Mx and Supply integration
- Delivers standard work templates

**Capability 1**
Optimized Maintenance Support

- Provides visibility of resources to enable optimization of Mx scheduling/execution
- Ensures CAP2 visibility for MGN and RN
- Performs discrete scheduling

**Capability 1**
Optimized Maintenance Support

- Provides the processes to support weapon systems with:
  - automated in-flight "debriefing"
  - automated fault-signals fed to MIS
  - automated fleet analytics

**Capability 1**
Enhanced Work Control

- Delivers performance reporting
- Provides information to improve SPO support for weapon system management
- Supports improved responses to HHQ, ops training, and emergent Mx requirements

**Improved MC Rates, Reduced Cost of Mx, Improved QoL**

- Improved adherence to plan/schedule
- Ensure Financial Compliance
- 100% configuration management of assets
- Reduction in rework hours for documentation
- Improved variance in scheduling to execution
- 100% visibility of resources for Mx activities at wing level and repair network
- Prevent fielding of new weapon system-specific Mx Information Systems (MIS)
- Supports advanced Mx best practices such as High Velocity Maintenance (HVM) concepts
- 90% of information needed to support decisions
- Enhanced enterprise decision making

Breaking Barriers ... Since 1947