



# Department of Defense CASE STUDY

## Defense Contract Management Agency (DCMA), Mechanization of Contract Administration Services (MOCAS) System Support

- Capital Planning Investment Control
- Business and IT Training
- Systems and Technical Services
- Acquisition Strategy, Planning, and Implementation

### Client Challenge

The Mechanization of Contract Administration Services (MOCAS) system is an automated, integrated contract administration and entitlement system, jointly owned by Defense Contract Management Agency (DCMA) and Defense Finance and Accounting Services (DFAS). First launched in the late 1950s, the system is used for the administration, management, entitlement and disbursement of complex contracts. The system consists of both online and batch system processing and is programmed primarily in COBOL, MANTIS, JCL and Assembler mainframe languages.

Existing MOCAS capabilities documentation was outdated and inadequate, and the Government needed to establish a baseline characterization of the As-Is system. To be compliant with the Department of Defense Enterprise Architecture, MOCAS capabilities needed to be mapped to the Business Enterprise Architecture (BEA). Prior to undertaking an Analysis of Alternatives (AoA) and evaluating a potential "To-Be" system, DCMA needed full documentation of MOCAS' As-Is Requirements and Business Rules to understand the full breadth of the functionality and system environment. To begin the adoption of the Business Capability Lifecycle (BCL) framework, DCMA Investment and Functional Managers needed a basic working knowledge of the BCL and its lifecycle phases.

### XLA Excellence Delivered

DCMA contracted with XLA to provide Systems Analysis, Engineering and Development services. This work included complex system analysis, design, modeling, documentation and training support. XLA provided support across five primary task areas:

- A Documented Baseline Characterization of MOCAS As-Is System Capabilities
- Business Enterprise Architecture (BEA) 9.0 Procure-to-Pay (P2P) MOCAS Capabilities Scoping Analysis
- MOCAS As-Is Requirements and Business Rules Documentation
- Business Capability Project Lifecycle (BCPL) Project Management Framework
- Just-In-Time Systems Engineering Training

### Impact

- Derived the MOCAS As-Is Requirements and Business Rules, which were later reviewed and expanded. Identified 35 Data Objects with 597 Data Attributes. Created a MOCAS Systems Interface report and MOCAS Interfaces Model. XLA documentation gives both DCMA and DFAS a holistic, common baseline to understand, manage and plan for the future of MOCAS and its related systems.
- Chartered and managed a working group to map MOCAS capabilities to the Business Enterprise Architecture, with a focus on the Procure to Pay End-to-End process flow. P2P enables fulfillment of goods and services in support of warfighter needs. This activity helped to bring DCMA into compliance with the DoD Enterprise Architecture (EA).
- Documented more than 1,100 Requirements and Business Rules for the MOCAS As-Is System. The common dictionary consistently identified and defined terms used in the requirements documentation. DCMA and DFAS now have documented As-Is Requirements and Business Rules, better preparing them for evaluation of a potential To-Be alternative.
- Developed and implemented the Business Capability Project Lifecycle project management framework for Defense Business Systems (DBS), non-DBS systems, and Simple Material procurements. This systems engineering lifecycle/project management framework was developed for IT systems. Following this framework and its processes helps to reduce system lifecycle cost, helps to identify and eliminate redundancy and systems that don't fit the Agency EA, reduces cost overruns and schedule delays, and increases quality and consistency in Agency Investment/Program/Project management.
- Trained more than 50 DCMA Investment Managers and Functional Leads in a workshop environment. Produced a video session of the training for ongoing use by DCMA's CIO and Senior Leadership. These activities are better preparing DCMA IT functional and investment managers for the transition to a BCL environment.

Excellence  
Always.