MDA IT Small Business Conference

1 September 2009
Colorado Springs, CO

MDA Implementation Engineering

Presented by:
Mr. Carter Elmore (MDA/DOCE)

Approved for Public Release
09-MDA-4863 (28 AUG 09)

Agenda

- **Mission / Goal**
- **Scope of Responsibility**
- **Engineering Functions**
- **Staff Composition**
- **Past Successes**
- **Future Focus Areas**

1 September 2009

**Approved for Public Release
09-MDA-4863 (28 AUG 09)**

MDA DOCE Mission and Goal

- **Mission**
  - **MDA/DOCE, the Implementation Engineering (IE) organization, oversees the day-to-day and strategic execution of NetOps Configuration Management, including Change Management, Release Management, and Asset Management.**

- **Goal**
  - **The goal of systematic implementation engineering is to standardize procedures and processes to promptly handle all changes in order to minimize the impact of change-related activities and, therefore, improve day-to-day stability of the MDA business networks.**

MDA DOCE Scope of Responsibility

- **The scope of Implementation Engineering encompasses the MDA general services and test networks which include both the Classified and Unclassified networks plus any associated devices and services under the MDA CIO's purview.**
  - **Management of changes to baseline service assets and configuration items throughout the entire service lifecycle**
  - **Development of processes, systems, and functions to package, build, test, and release into production new products, components, and services**
  - **Establishment of services specified in the Service Catalog before final transition/handover to service operations**

MDA DOCE Engineering Functions

- **Design Engineers**
  - Develop detailed design artifacts based on architectural specifications
  - Coordinate with vendors for best practice analysis and configuration detail
  - Provides bill of material and detailed costing data
- **Implementation Engineers**
  - Conduct test and evaluation of detailed design within lab construct
  - Develop detailed implementation and integration plans
  - Coordinates and supervises release packages through O&M assets
- **Sustainment Engineers**
  - Perform performance tuning and optimization of operational services
  - Responsible for the operation of the "service" rather than the "server"
  - Executes changes based on "well-crafted RFCs" in support of projects, O&M Tasks, and Sustainment Engineering efforts

MDA DOCE Staff Composition

- **Baseline Level of Effort Sustainment Engineering**
  - **Level of Effort staffing focused on improving existing services**
    - **Capacity Management, Performance Tuning and Optimization, Lifecycle Refresh of Existing Systems**
  - **MDA Test and Integration support for exercises and events**
    - **Ground Test, Flight Test, Real World Contingencies**
- **Discrete Project Engineering Services**
  - **Dynamic staffing levels and expertise used to deliver discretely funded engineering services to projects**
    - **Exchange 2007 Deployment**
    - **SharePoint 2007 Service Implementation**
    - **Office Communication Services**
- **Base Realignment and Closure (BRAC)**
  - **Temporary staff surge to manage BRAC transitions from NCR**
    - **IT Service Transition, Decommissioning, Von Braun III Stand-up**

Previous Successes

- **BRAC migration to COS**
- **Unclassified Exchange 2007 Stand-up and Migration**
- **Technical Refresh of Intrusion Detection Systems**
- **Enterprise Remedy ITSM Deployment**
- **Core Site Connectivity**
- **Consolidated NetOps Tools Deployment**
- **Multiple Tailsite and MANsite Implementations**

Future Focus Areas

- **Microsoft Office SharePoint Services**
- **Exchange 2007 Implementation and Migration**
- **Microsoft Office Communication Services**
- **802.1x Network Access Control**
- **Integrated Test Lab**
- **Unclassified BRAC Migration**
- **MDIOC Transport Refresh**
- **HQCC Standup**
- **Von Braun III Buildout**

Questions?