CASE STUDY

USTRANSCOM

Single Mobility System

CHALLENGE

- Lack of visibility on distribution data for officers and senior leaders.

APPROACH

- Develop a custom software solution to flow data to decision makers.
- Creation of SMS, a tool that exchanges and stores information from source systems.
- Develop multiple interfaces for multiple applications.

RESULTS

- Increased visibility of data.
- 20,000 users worldwide.
- Cost savings of $1.7 Million per year.
- Average response time of 10 minutes or less, significantly exceeding requirements of 30 minutes.

Tapestry Solutions developed a custom DoD enterprise distribution management system, Single Mobility System (SMS), used from the strategic to the tactical level with over 20,000 users worldwide for United States Transportation Command (USTRANSCOM). The system allowed the government to share information easily, reduce duplicate functionality, reduce resources, and save costs.

SMS was chartered by the commander of the USTRANSCOM to address a lack of distribution data available to action officers and senior leaders to answer key Joint Staff mobility force and asset questions.

Tapestry provided a custom software solution to flow data to officers and senior leaders enabling them to make informed decisions quickly. Tapestry is responsible for designing and developing SMS architecture, code, and maintenance of the system since the program's inception.

Within SMS, Tapestry exchanges and stores information from source systems such as the Joint Operational Planning and Execution System (JOPES), the Global Decision Support System (GDSS), the Consolidated Air Mobility Planning System (CAMPS), the Joint Air Logistics Information Systems (JALIS), and the Coalition Mobility System (CMS). It also receives feeds from Integrated Development Environment/ Global Transportation Network (ICG) to include Global Air Transportation Execution System (GATES), Defense Transportation Tracking System (DTTS), and numerous other systems representing all modes – air, land, and sea. The software serves as an entry point into the Defense Transportation System (DTS). It fuses data from disparate sources to provide visibility and decision-ready, live information to decision makers at all levels, helping them quickly locate and respond to information. The system monitors changes to user-selected requirements and missions. The application specializes in force flow, sustainment, contingency/ exercise planning, predictive analysis and executive, strategic, operational, and tactical responsiveness. SMS provides real-time command and control visualization, in-transit visibility, force deployment/redeployment, planning, and execution.

TAPESTRY™ SOLUTIONS
A BOEING COMPANY

INTEGRATION POINTS TO MULTIPLE SYSTEMS
INCREASED SECURITY PROCEDURES
LOW COST, HIGH IMPACT TOOLS

CASE STUDY

ABOUT OUR CUSTOM SOFTWARE

We build premier software solutions to solve critical business problems within the following domains: Planning, Rehearsal & Mission Execution; Logistics Training, Simulations & Analytics; Deployment & Distributions; Enterprise Asset Management; Maintenance Repair & Overhaul; and overlaying, Logistics Command and Control.

ABOUT OUR COMPANY

Headquartered in San Diego, California, Tapestry Solutions has approximately 850 employees and a presence in more than 50 locations around the world. A wholly-owned, independent subsidiary of The Boeing Company, Tapestry provides premier Commercial Off-the-Shelf (COTS) and custom software products and service to customers worldwide.

Custom software for 20,000 users with multiple integration points, enabling for total visibility of data.

The Tapestry technical approach to problem solving includes researching in-house custom solutions vs. existing GOTS and COTS products. Our expertise in seamlessly integrating proven products into the SMS custom applications has allowed us to provide the most efficient and cost effective solutions to our government customers. Tapestry engineers develop portable widgets that conform to the latest standards, reducing the need to create redundant software applications. Tapestry engineers are responsible for the systems architecture, software framework, security, database, 16 systems interfaces on NIPR, and 14 systems interfaces on SIPR. Dealing with legacy systems Tapestry fuses data from authoritative data sources utilizing Service Oriented Architecture (SOA), flat file, CSV, XML, and direct data base queries.

Key Capabilities: Data Fusion and Visualization for the Distribution Enterprise, In-Transit Visibility, Predictive Analysis, Sustainment Data, Dynamic Display of Decision-Ready Live Information.

Our application was one of the first systems at USTRANSCOM to implement increased system security procedures as directed by the Deputy Commander, and was among the first systems to transition to 100% CAC-enforced access. The solution enabled USTRANSCOM to capitalize on web technology, allowing users to quickly locate information from an entire unit's equipment list down to a single passenger. Tapestry's custom solution has become critical to USTRANSCOM; they are able to own and operate the application at low cost with a high impact.

Tapestry is able to identify and resolve issues for USTRANSCOM, with an average response time of 10 minutes or less, significantly below the 30-minute response time requirement. USTRANSCOM was able to consolidate duplicate system functionality and save scarce resources. Tapestry was able to bring Integrated Command, Control, and Communications (IC3) under the SMS/CMS umbrella and save the Government $1.7 million per year.

The custom built SMS solution provided annual cost savings of $1.7 Million.

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