



## Client

Name: United States Air Force – Standard Systems Group

Location: Maxwell AFB – Gunter Annex, AL

## Business Situation

The Standard Systems Group (SSG) is responsible for information technology integration, standardization, and enterprise-wide mission support for the United States Air Force. It operated several legacy systems providing mission critical functionality in support of the war fighter, including the Standard Material Accounting System (SMAS) and the Standard Base Supply System (SBSS). The legacy processing environment for these COBOL systems was a proprietary Unisys 2200 mainframe with a proprietary Unisys DMS 2200 database. On-line programs were also using a proprietary Unisys screen handler. These systems were collectively comprised of approximately 3 million lines of code. The cost of operating these systems on the mainframe was very high and the legacy architecture was inconsistent with Air Force standards. SSG was seeking acceptable alternatives.

## IAI Solution

IAI was selected and engaged by SSG to provide the ICONS toolset and expert consulting services to convert and rehost the SBSS and SMAS systems to operate, with critical functionality intact, on a Unix (Solaris) platform with an SQL (Oracle 9i) database and a J2EE user interface. IAI, working closely with Air Force technical staff, successfully achieved the required result, delivering the converted systems within an 18-month schedule. Particularly notable, among the successful conversion results, was IAI's implementation of the IAI DBIO database access scheme whereby calls to the database were removed from the "inline" source code and implemented as a separate "database layer".

## Partner Technology

IAI and SSG used the Micro Focus Server Express product. This product allowed them to retain the business logic in the legacy COBOL, while running in a new, open-source environment. The Server Express Development Environment and its step-by-step debugger allowed programmers to identify and fix bugs very quickly.

## Benefits to Client

The SSG was able to realize a significant system performance improvement for the converted systems, over the original system performance, particularly in the batch processing components. Additionally, the creation of the database layer provided important maintenance productivity gains as well as facilitating future system portability.

## About IAI

IAI is a publicly traded Company (OTC:IAIC) that provides a full range of IT services, specializing in eBusiness solutions, enterprise portals, system migration and modernization, and enterprise application integration. In business since 1979, with headquarters in Fairfax, Virginia, IAI provides services to government and commercial clients throughout the United States. IAI is a Micro Focus business partner and a member of the Micro Focus Migration and Transformation Consortium, Oracle Modernization Alliance and the Microsoft Mainframe Migration Alliance.