



An Award-Winning SOA Suite Implementation at Orlando Airports

Greater Orlando Aviation Authority (GOAA), Orlando, FL

GOAA is one of the largest airport authorities in the U.S., accommodating nearly 35 million passengers and over 300,000 flight arrivals and departures annually. It manages both the Orlando International (MCO) and Orlando Executive (ORL) Airports in Orlando, Florida. GOAA has a rich tradition of technological innovation.

Oracle Technologies

- SOA Suite 11g
- Business Activity Monitoring (BAM)
- Oracle Service Bus
- WebLogic Server 10g
- Oracle RDBMS 11g, RAC & Data
- Enterprise Manager
- ADF and JDeveloper

Services Provided

- Implemented an enterprise integration platform, setting the foundation for a long-term, service-oriented airport
- Utilized a pre-built SOA solution to reduce time-to-deployment
- Introduced high-availability architecture on the Oracle Middleware platform

"AST is one of Oracle's go-to partners for Fusion Middleware technologies in general and SOA integration services in particular. The success of the SOA solution created for Orlando International Airport offers validation that AST has the depth and skills to execute complex Oracle technology projects in very demanding, consumer facing applications."

John Gray, Group Vice President, Oracle Corporation

Business Needs

GOAA utilizes over 40 airport information systems implemented across various departments and sub-departments. In addition to Oracle, these systems are implemented and supported by over 30 software vendors, such as SITA, IBM, COMNET, AirIT, IED, and Microsoft. Many of the systems are proprietary in nature and are integrated point-to-point, creating a clutter of interfaces, which ultimately creates major challenges for GOAA during any new software upgrade or implementation.

To address these challenges, GOAA sought to implement an enterprise integration platform which could provide efficient integration to all airport systems and, in the long-term, would help build a service-oriented airport. This platform would allow GOAA to automate airport business processes, facilitate the collection of airport operations information, and establish a foundation for monitoring progress.

Services & Benefits

AST brought extensive experience with Oracle solution implementations for international airports and large metropolitan transit authorities throughout the United States, as well as an intimate knowledge of GOAA's systems from an earlier Oracle E-Business implementation. Our proposed integration solution – Airport Integrated Data Broker (AIDB) – was based on recommendations of the Federal Aviation Authority (FAA), as well as the Airport Corporate Research Program (ACRP) Report 13, "Integrating Airport Information Systems." Furthermore, our solution emphasized AST's ability to support GOAA's requirement for business continuity during and after the SOA implementation.

AST recommended high-availability architecture using clusters of Oracle WebLogic servers hosting SOA, BAM, and OSB, and Oracle RDBMS using RAC and DataGuard. The clusters of servers were distributed across the two datacenters at GOAA.

The AIDB implementation went live on time and within budget, ultimately earning AST an Oracle Excellence Award for Public Sector SOA solutions.

Using SOA Suite 11g, the AIDB implementation created an enterprise integration and business process automation platform, a standard for any future system integration implementation at GOAA. The AIDB implementation is helping GOAA cut costs, minimize expenses, and track and share information among departments in a more productive way. Additionally, GOAA is now planning the next phase of AIDB, planning to implement Oracle Content Management Suite as an Enterprise ECM platform, and looking at Oracle Business Intelligence and AST's pre-built airport analytics solution, ASTRA.

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