Case Study: Success with SOA & Web Services

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the road to success
LANDSTAR

Enterprise IT organizations are looking to SOA as their roadmap to respond to increasing demands for rapid system development and to solve interoperability challenges

The Problem

- **Core legacy applications supporting the business are old, inflexible, and brittle**

- **Minimal system documentation**

- **Skill drain for qualified support staff**

- **Monolithic silos of application development**

- **No standards for design or architecture**

- **No standards for data storage and data movement between systems**

- **Tight integration of systems with high degrees of interdependence**

- **Long development cycles for applications and enhancements**

Defining your objectives are the keys to success

- **Loosely coupled**

- **Increased code reuse**

- **Smaller code base**

- **Business rule consolidation**

- **Reduced development cycle time**

Landstar Objectives of SOA

- **Provide standardization and consistency in the development and deployment of applications**

- **Support the rapid development of business applications through the use of standard SOA architectures.**

- **Support the implementation of SOA designed to provide maximum reuse of program objects.**

- **Utilize standards and best practice in the design and implementation of databases in support of application deployment.**

- **Ensure the stability, timeliness, and accuracy of all data movement required for support of application deployment**

Where Landstar started: A single version of the truth

- **Created a data strategy**

- **Developed a single comprehensive data warehouse from multiple sources**

- **Consolidated all data movement staff and acquired tools**

- **Created Data Architect position**

Next step: Architectural design

- **Worked with consultants and Microsoft to create a comprehensive architecture for .NET development**

- **Evaluated the language toolsets and settled on C#**

- **Trained the staff on tools and design fundamentals**

- **Began peer code reviews**

- **Created .NET Architect position**

And then: Development began around SOA
Identity and Access Management

- **Brought in consulting resources**

- **Evaluated and picked a project that would gain significant benefit from web services**

- **Minimized risk by developing web service components for a system that was inward facing**

The Future

- **Created an Architectural Council including representation from each technical discipline**

- **IAM interface to additional applications and non .NET systems**

- **Redesign and redeploy several critical applications in our website**

- **Interfacing with outside business partners**

Design and architect for it

Train for it

Start small

Provide Governance & Guidance

Questions

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