

Case Study

Migrating from Oracle SOA to MuleSoft Cloudhub

Project Challenges

The client decided to take the plunge towards an API-led connectivity approach by opting MuleSoft Cloudhub. It aligned to their long-term vision of adopting best-of-breed tools to support its business needs, inter-connected by a world-class integration platform. Key challenges/areas the client wished to overcome using MuleSoft Cloud:

- Enable Digital Transformation for better engagement with customers and partners.
- Move integration to industry-leading REST based APIs.
- Utilize best-in-class Security and Authentication features.
- Avoid continuous hardware maintenance and software updates/patches of on-premise SOA Suite.

Solution Overview

The client used Oracle SOA Suite to interface the following mission-critical applications:

1. Oracle E-Business Suite (EBS) 11i
2. Oracle Transportation Management (OTM) Cloud
3. Oracle Configure Price Quote (CPQ, BigMachines) Cloud
4. XML EDI interface with Oracle EBS 11i using Advanced Queue (AQ)
5. Workday HCM Cloud
6. A range of custom applications

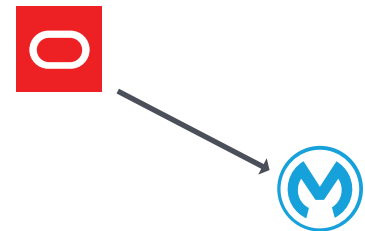
Oracle SOA suite provided built-in connectors for a majority of the applications, though most of the connectors needed to be re-designed and re-engineered in MuleSoft, which foreshadowed a major challenge.

Migration Process

Along with our team's in-depth MuleSoft knowledge, ennVee's deep understanding of Oracle EBS, SOA Suite, OTM, CPQ and Workday applications helped contrive an optimized solution for migrating all services from Oracle SOA to MuleSoft.

The following approach was taken to mitigate the complexity of the project:

1. List all existing Oracle SOA Services.
2. Identify Oracle SOA services that are eligible for migration - sun set services that were no longer used.
3. Group services based on source and target applications. (e.g. EBS to OTM, EBS to CPQ etc).
4. Prepare pre-work documents listing down existing functionality).
5. Review pre-work document and determine if redesign is required. (e.g. move from SOAP service to REST, HTTP to HTTPS, Batch processing to real-time processing).
6. MuleSoft Technical Architects prepare Technical Design document, RAML Specifications and Security Policies for APIs.
7. MuleSoft developers code and unit test APIs in Cloudhub.
8. Perform System Integration and User Acceptance Testing.
9. Perform Load testing to determine V-Core allocation.
10. Deploy and monitor APIs in Cloudhub.



Customer Snapshot

Global manufacturer of physical infrastructure equipment that support power, communications, computing, control, and security systems.

- Location: Chicago, Illinois
- 5,000 employees
- \$1+ billion (USD) annual revenue

Delivery Model

The project was delivered by hybrid teams (USA and India) following Agile Methodology.

Talk to our experts about your integration objectives

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