

Seamless Customer Experience for a Leading Retail Industry using MuleSoft Integration

About the Client

The client is one of the largest mattress retailers in North America founded in 1986, headquartered in Houston, Texas. They strive to help customers find the beds they want at the price that fits their budget. Today, they have grown to be America's largest specialty mattress retailer, with neighborhood stores in 49 states across the country and a passion for helping people find the right bed.

At a Glance

INDUSTRY | Retail

LOCATION | USA

USE CASE

A USA-based mattress retailer wanted a seamless integration.

CHALLENGE

The client's architecture had a simple point to point integration, which lacked reusability, scalability, and discoverability.

Business Challenges

The client's current architecture uses simple point to point integration, lacks reusability, scalability and discoverability. It doesn't adhere to MuleSoft's recommended design patterns, losing out on the benefits of the Anypoint platform and causing a lot of code redundancy. Without reusability, each new/redundant data integration impact costs.

Lack of proper documentation of the existing APIs makes them difficult to be discovered and consumed by other applications. Current architecture is built on Mule 3.x which is quite outdated. Several business applications like Elastic Search, Databases, CRM, ERP, SaaS applications are scattered across the organization and there is no one seamless way of connecting them and getting insightful information out of the data flowing across these applications. No visibility on Service consumption or ability to chargeback for usage of Services.

Current design doesn't offer the flexibility to choose which API's/Apps need to be restricted to internal users and which APIs can be exposed to public domains. MuleSoft licenses were not optimally deployed which requires purchasing of additional license thereby incurring additional cost.

Our Approach

After assessing at client's application landscape and existing solution design, MuleSoft experts from Royal Cyber did the following.

- 1 Redesign the enterprise integration architecture based on an API-led connectivity approach that is robust, supports seamless integration, scalable, promotes reusability and implements MuleSoft's recommended design pattern and best practices.

- 2 Leverage Anypoint Exchange platform to support reusability and discoverability of APIs thereby supporting the Center of Enablement(C4E) initiatives across different LOBs.
- 3 Leverage Anypoint API Manager to manage APIs which will give the ability to issue contracts, set security and usage policies, collect analytics data and drive innovation.
- 4 Leverage DevOps practice and Anypoint studio tools to implement CICD pipeline and seamlessly deploy the mule application to Cloudhub.
- 5 Migrate the existing interfaces from Mule 3.x to Mule 4.x and set a platform for future developments to be implemented using Mule 4.x.
- 6 Recommend techniques to optimize the utilization of vCores/Licenses to get the best ROI out of existing licenses thereby saving significant cost.

RESULTS

- 1 Streamlined application architecture providing scalability, robustness and ease of integration with any other application/system.
- 2 Setup C4E and help evangelized it to promote Reusablability of API assets across different LOBs eliminating redundancy and saving cost.
- 3 Enabling Business users to play with business process APIs themselves using Anypoint Exchange self-service portal, thereby completely eliminating IT dependency.
- 4 Significant license cost savings due to optimized utilization of vCores.

CASESTUDY

SOLUTION

Royal Cyber redesigned the EIA based on MuleSoft API that provided robustness and scalability.

Key Takeaways

- › Max ROI out of current investment.
- › Approx. 70% cost savings
- › 100% Reusable API assets
- › Empowered Business Users
- › Zero dependency on IT
- › Loose-coupled next-gen solution architecture
- › A modern platform to build future applications and APIs

About Royal Cyber:

Simplifying IT for Customers & Partners

Royal Cyber Inc. Headquartered in Naperville, IL is a leading software organization that provides services ranging from application development and deployment to training and consultancy. We commenced the operations in the year 2002 as a specialized Technology provider striding in as a software deployment service provider, assisting clients to meet the standards and demands of doing business in the rapidly changing marketplace. Today we stand tall as a **One Stop Shop** for all your IT needs.



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