

OpenLegacy + MuleSoft: Now Connecting On-Premise Systems to the Cloud

The MuleSoft motto “Connect Anything, Change Everything” refers to the ability to build an application network with secure, reusable integrations and APIs designed, built, and managed on Any-point Platform™.

For large enterprises in banking, insurance, healthcare, and manufacturing, the challenges of a digital transformation include reshaping corporate culture, designing new systems and processes, and dealing with existing legacy “core” assets on which critical business processes run.

The mission to “Connect Anything, Change Everything” must also include connecting on-prem systems to the cloud. This should be done in a truly cloud-native way that makes communication as fast as possible. But, integrating a cloud application with an on-prem, legacy application is challenging.

OpenLegacy’s approach uses encapsulated SDKs that represent an abstraction of a legacy transaction, or data used inside the microservices. This results in easier integration and combination with cloud-based data sources. It’s as simple as using two Java objects in combination. OpenLegacy’s automated process of creating these SDKs manages all of the complexities, security concerns, performance challenges, and other issues such an integration can present.

OpenLegacy’s approach means:

- Fast creation of integrations: Automate the whole process for any legacy system.
- No legacy skills needed: APIs can be generated by a single Java developer.

- Extremely low latency: The connection is direct to the legacy system, delivering optimal performance.
- Everything generated is Java code: Uses familiar frameworks like Spring Boot and Maven
- Designed for easy deployment: Built as a native microservice that contains the API and is easily deployable to any cloud.

MuleSoft with OpenLegacy

Combining MuleSoft and OpenLegacy you get:

1. Simpler, faster, more modern legacy integration
2. Control of the connectors
3. Easy orchestration between legacy and non-legacy APIs and apps

Simpler, Faster, More Modern Legacy Integration

OpenLegacy provides a set of enterprise-grade legacy connectors that are fully compatible with modern microservices architectures, and with the MuleSoft run-time stack. The stack can connect directly to the legacy system through the OpenLegacy SDK. Since the workflow encapsulates the SDK, there are no additional outside dependencies.

Control of the Connectors

The OpenLegacy code-first approach provides a tremendous amount of flexibility in implementing and maintaining legacy integrations. You can enjoy template-based customization and complete

visibility and access to the entire code-base of the microservice project.

Easy Orchestration

MuleSoft provides easy testing, orchestration, exploration, and management of all of the APIs. MuleSoft's integrated environment makes it easy to test and manage all APIs in one place, including legacy and non-legacy APIs.

MuleSoft and OpenLegacy

A tier-1 European bank (who is a MuleSoft customer) approached OpenLegacy about providing a solution to connect to its multiple AS400 core banking applications. While very happy with MuleSoft as a strategic API generation and management platform, the bank struggled with how to deliver its core application functionality consumed by the new API workflows.

A typical integration process involves a lot of manual coding, along with façade programs built on the legacy platform, and a reliance on an asynchronous MQ protocol, which adds latency.

A pilot project was defined to enable OpenLegacy to demonstrate the platform's ability to:

- Automatically and quickly create APIs for AS400 transactions
- Improve on the latency of the current solution, which was 350ms
- Deliver the project efficiently, involving fewer people, and requiring more easily available skills than the current process

OpenLegacy worked with the bank to rapidly develop five microservices, encapsulating 23 different transactions for a credit approval process. This included queries for retrieving customer, account and balance information. The result:

- New microservices deployed daily, and all five APIs complete in three days
- Latency was reduced by a factor of 5, from 350ms to 70ms
- The entire project was completed by a single junior Java developer

If all of this seems too good to be true, please get in touch with OpenLegacy or Mulesoft to see how our combined solution can address your challenges.

About OpenLegacy

OpenLegacy accelerates delivery of innovative digital services from legacy systems in days or weeks versus months. Our microservices-based API integration and management software reduces manual effort by automating API creation, simplifies the process by avoiding layers of complexity, and improves staff efficiency and API performance. Our software directly accesses and extends business logic to web, mobile or cloud innovations in the form of Java objects, REST APIs, ODATA APIs, or SOAP. Most importantly, this process is not only fast, easy and secure, but also does not require special staff skills or changes to existing systems or architecture. Together, business and IT teams can quickly, easily and securely meet consumer, partner or employee demands for digital services without altering or replacing core systems. Learn why leading companies choose OpenLegacy at www.openlegacy.com.



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