![OpenLegacy — Digital to the Core]

How to tackle core, back-end system challenges using APIs

Release digital services faster with automated, microservices-based digital-driven integration

Introduction

In today's digital world, consumers expect instant access to information and services—if they don't get it, they move on. For established companies, keeping up with customer expectations is extremely challenging, especially with a mix of back-end technologies that aren't fully compatible with digital architectures.

Many organizations create APIs to extend their backend systems, but the process is lengthy and not easily scalable. Despite offering APIs, organizations still aren't truly operating in a streamlined digital way.

As organizations look to the future, the questions are "Do you want to create your next hundred APIs the way you created your last 100? How can you design and run microservice APIs quickly—and manage them with traditional ESBs and API management tools? Will you eventually move towards serverless functions?"

01

The dual nature of IT

Today, most organizations work with a highly divided IT environment—simultaneously running a mix of traditional systems (ERP applications, mainframes, databases) and data center workloads alongside their modern digital solutions. While traditional systems are the workhorses of an organization, companies still need to give customers and employees anytime, anywhere access to information and services. This means a shift towards digital environments. As the gap between "old school and modern" IT solutions widens, organizations find themselves hampered by their IT investments and left searching for a roadmap to next-gen computing.

Considering the risk and expense associated with replacing core business applications and data center workloads, most organizations try to leave existing systems intact and make them accessible via integrations. This solves a company's mobility issues

Allow your back-end systems to automatically embrace the power of the API through a modern microservices approach

Leveraging Open APIs

In modern IT systems and cloud environments, APIs eliminated most interoperability problems found legacy (core) systems. Being portable, APIs ensure connectivity across applications and cloud solutions now use Rest APIs to ensure developers can quickly write integrations in just a few steps.

As important, as organizations look toward microservices, it is essential that APIs are also microservice-based and can be easily managed.

Unfortunately, most of a company's traditional IT systems—ERP systems, mainframes, and databases—don't offer APIs or a true microservices approach.

Instead, efforts to create APIs and microservices often do not make a company truly digital and may even add to layers of complexity.

OpenLegacy solves these concerns. We offer microservice-based API creation, enhancement, testing and deployment to quickly extend your core systems as digital services for the web, mobile or cloud.

> "
> *OpenLegacy helps us set the mainframe free, finally. Instead of being a prohibitive factor for new projects, it's now the enabler—with OpenLegacy generated APIs that connect to any other system in our environment*
>
> **IT Executive, Israel's Largest Bank**

and provides a cost-effective solution for increased user access to core systems. However, to date, this idea has often failed to provide the kind of rapid transformation organizations need for a variety of reasons:
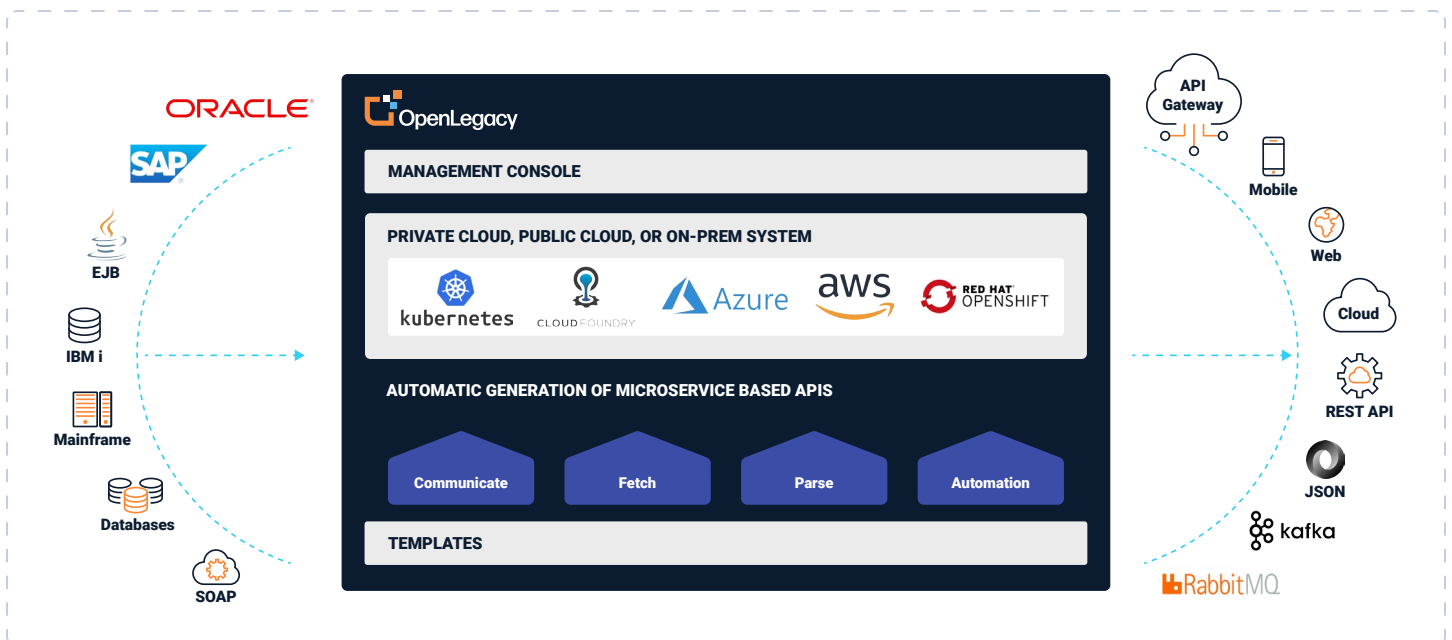
- Integration work is done on a project by project basis and uses customer coding or complex middleware schemes that are expensive and time consuming.

- There is no adherence to standards in the process which means the integration work isn't portable and cannot be reused across multiple applications.

- There is a fundamental lack of understanding and shared skill sets between the managers of traditional and modern IT systems, further aggravating the gap between these two computing paradigms.

Most organizations create APIs to solve traditional integration challenges. However, manually creating each API requires developers with specialized skills to tackle each architectural layer, thus adding to complexity and project delays.

Clearly, a transformation path built on manual efforts cannot survive for long. Organizations need a strong, repeatable strategy that works for all IT assets—be they old school or modern. For bi-modal environments, CIOs need a stable, reliable, standards-based solution for working with large, robust infrastructures that can be deployed quickly to ensure agility and rapid delivery of real results for the business.

At OpenLegacy, we believe the answer to speed and simplicity is automating API creation, testing, and deployment with API software built specifically for core back-end systems. We call it "digital-driven integration."

Automatically and quickly create microservices-based APIs with OpenLegacy's digital-driven integration

With Digital-Driven Integration, legacy systems become naturally integrated into the digital world. OpenLegacy directly connects to your most complex core systems, mainframes, mid-range systems, databases, and more. Then, it automatically generates digital-ready code in minutes, so they seamlessly integrate into new digital services. Finally, it deploys them as microservices or serverless functions giving you the flexibility to release however works best for you. The result: APIs created 10x faster, performing 5x better, while optimizing costs and resources by 75% as well.

02

Key Benefits

Create APIs 10X Faster: Say goodbye to your backlog. With Automatic Code Generation, you can quickly and effortlessly generate digitalnservices from 50+ types of back-end systems. No special skills or changes to legacy systems required.

Get 5x Better API Performance: Blazing fast APIs. With direct-tolegacy connections, you avoid complex layers of technology and dramatically boost API performance.

Deploy Faster With More Options: Go digital your way. In one step, you can deploy as cloud-based serverless functions or microservice-based APIs that live on premises, in the cloud, or both.

Lower Your IT Spend: By reducing reliance on your ESB middleware, you will spend less on licensing and simplify your maintenance.

Reduce Your Risk: Create any API or serverless function without ever changing your legacy systems. Everything stays exactly as is.
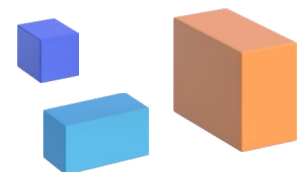
Reduce Your Cost: No special skills needed. No changes to core systems required. – dramatically cutting down time, effort, and risk.

Customize Easily: Enjoy enormous power and flexibility out-of-the-box, while easily customizing everything to your needs.

Naturally Compatible With Your Existing Software: Already using your favorite API Management, Integration and Cloud tools? OpenLegacy makes them even better, by working seamlessly with your favorite vendors while adding the much needed legacy integration capabilities that they're missing.
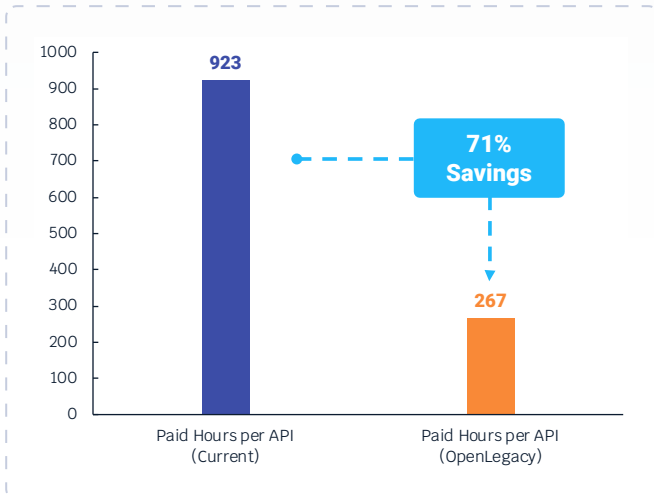
03

The OpenLegacy approach

Our approach is based on a unique way of looking at the problem. Instead of asking how to rewrite, convert or migrate IT infrastructures, OpenLegacy asked "How do we open up the backend systems to the consumer; preserve the investment; mitigate time, cost, security and risk; put control into the hands of the enterprise? How can we ensure that they can continuously take advantage of the newest ideas in computing and meet ever-growing requirements for digital services and innovations?"

The answer came down to developing tools that learn from the backend without making any changes to it. The non-intrusive approach created by OpenLegacy lets developers simply and safely use an agile methodology for accessing systems of record and integrating with digital networks.

The result is digital transformation without the typical cos, risk, time and resources. Below are actual examples of cost and time-savings for a major global organization.

> "
>
> *OpenLegacy helped us become truly responsive by letting us build APIs and microservices in a single sprint—five microservices in two weeks, instead of one in many months.*

Keeping up with evolving customer needs is faster, easier and more agile than ever before with OpenLegacy. By adopting an open solution that connects modern and traditional IT systems, OpenLegacy delivers business-driven solutions rapidly, effectively and affordably. With OpenLegacy, organizations with mission critical, complex legacy technology can still become digital to the core.
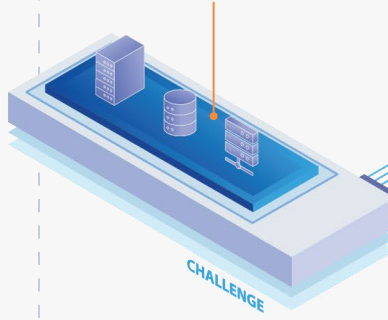

Actual customer saving

Same customer at rate of 100 APIs per year

01

Legacy and on-prem systems & applications

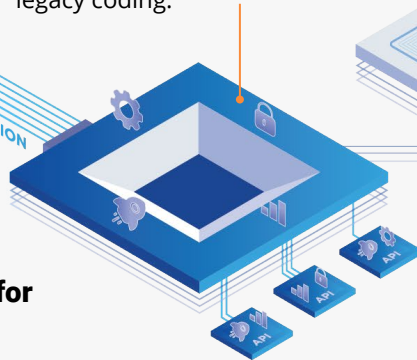Tightly coupled monolithic architecture impedes business agility & hinders digital transformation.

CHALLENGE

03

SDK project creation

De-couple fine-grained business objects from complex legacy applications with no legacy coding.

SOLUTION

04

One-click deployment of microservices applications

Using built-in templates and wizards, connect directly with the legacy or on-prem system AND automatically extend back-end systems as independent and scalable microservices.

02

Plug & play connectors for rapid integration

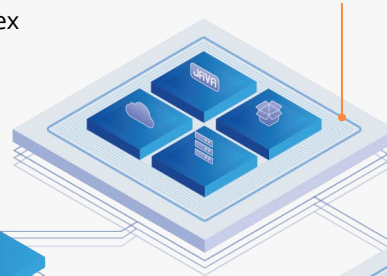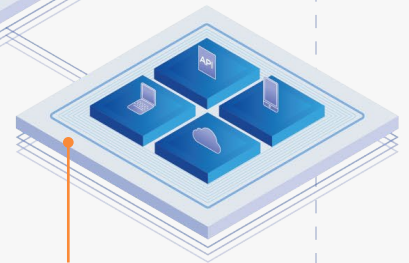Our broad range of connectors extract strong-type metadata from any core systems. We have connectors for:

05

Digital services rollout

The microservices architecture accelerates delivery of granular services to many different devices and channels, (e.g. CRM, BPM, web, mobile, cloud).

OpenLegacy automates a vastly complex process

About OpenLegacy

OpenLegacy's Digital–Driven Integration enables organizations with legacy systems to release new digital services faster and more efficiently than ever before. It connects directly to even the most complex legacy systems, bypassing the need for extra layers of technology. It then automatically generates APIs in minutes, rapidly integrating those assets into exciting new innovations. Finally, it deploys them as standard microservices or serverless functions, giving organizations speed and flexibility while drastically cutting costs and resources. With OpenLegacy, industry–leading companies release new apps, features, and updates in days instead of months, enabling them to truly become digital to the core.