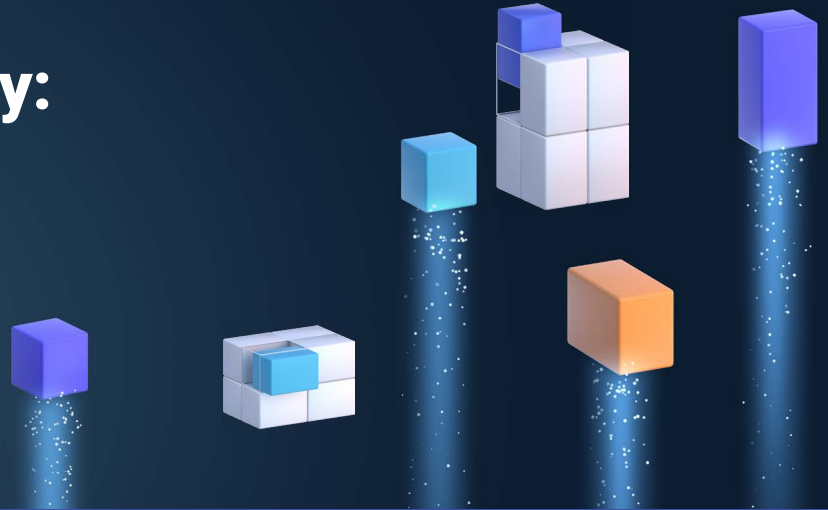


## Solution Brief

# Apigee + OpenLegacy: Your SAP Complete Digital Journey

Modernize with the Best-of-Breed legacy  
API Generation and Management



## Overview

As part of Google's Cloud application modernization solution, Google foresees customer-facing a series of urgent challenges:

- How can they raise system visibility and control over operations that are more dispersed and changing than ever?
- How can they cut costs, yet create a more agile and responsive IT system?
- How can they do more with older data, even as they better understand the ever changing market?
- How can they help people work faster, with a minimum of change management, or set the stage for growth, while preserving capital?

In many cases, the answer is a step-by-step deployment of cloud computing technology, tailored to meet the most pressing needs first.

Working with a comprehensive cloud provider, it is possible to create systems that respect and preserve core assets, while enabling rapid modernization, especially for the cost-aware agility and resilience of modern application architecture.

However, these core services rely on legacy systems, including mainframes, mid-range systems, applications, and databases. These systems offer a trustful set of capabilities that are part of this modernization process. This means these systems have to coexist with a modern microservice approach during a long period of time if not permanently.

## Apigee & OpenLegacy: The Solution

Apigee Edge is a leading API Management platform available both on-premises and in the cloud. Customers can build and deliver modern applications faster, execute at scale, and optimize costs.

However, many enterprises, ESB/SOA layers add time-consuming complexity and risk. Furthermore, even once the APIs are created, the integration performance and speed is affected by these layers. All of these issues can lead to delays which affect budgets, staff resources, the time-to-market, and total cost of ownership. This is where OpenLegacy's integration with Apigee helps. OpenLegacy's API integration platform is the fastest, most standard, and efficient way to leverage legacy applications inside the Apigee API management and analytics platform.



### Seamless & Automatic

Quick automatic generation of consumable APIs from legacy systems for management by Apigee Edge



### Faster Time to Market

No hand coding or custom configurations needed for usage by Apigee's Proxies



### Extremely Low Latency

Connection to the legacy system is direct, delivering optimal performance



### Lower Maintenance & TCO

Improve operational efficiency by bypassing layers of complex ESB/ SOA-based middleware



### DevOps Ready

Generate, test and deploy APIs quicker with OpenLegacy platform connected to Apigee Edge



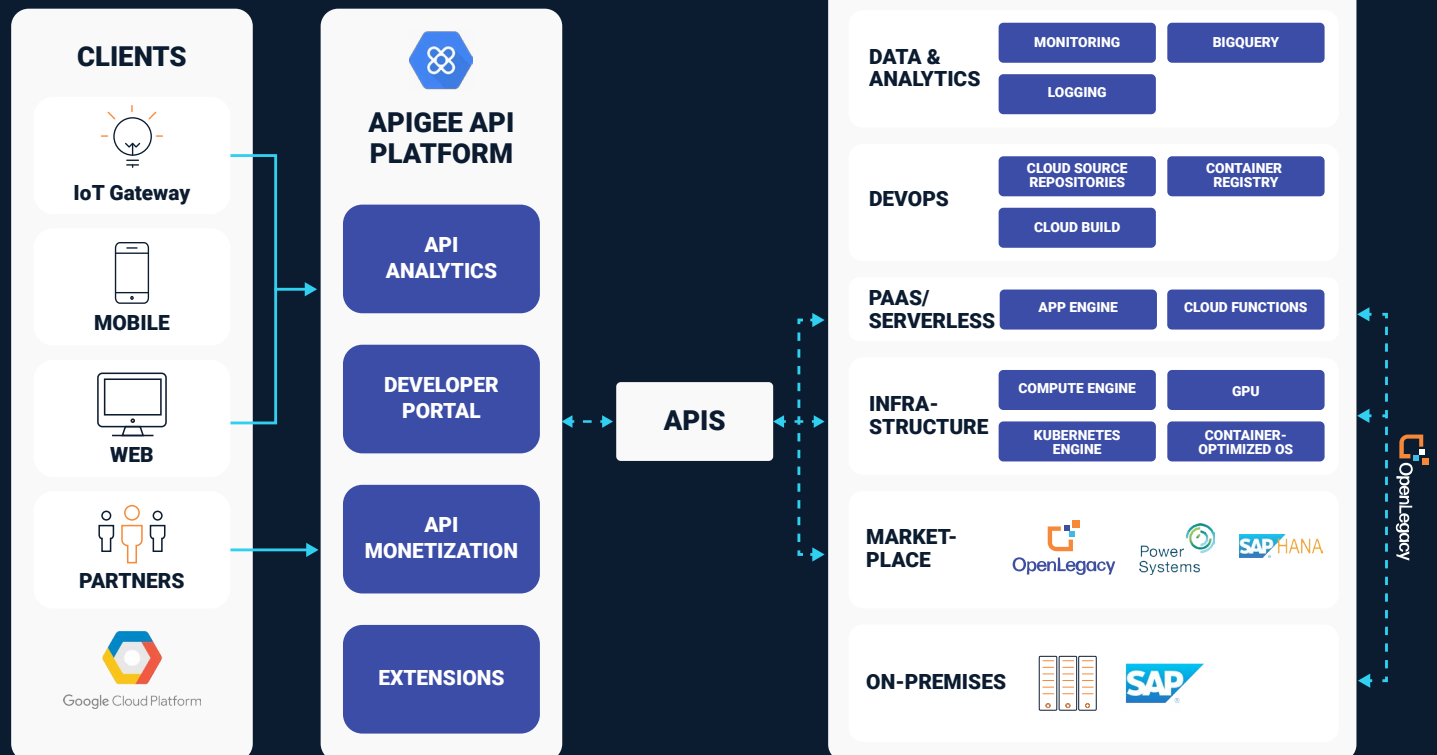
### Easy Deployment into Hybrid Cloud

Microservices-based APIs for easy deployment to any cloud

Apigee with OpeLegacy allows organizations to quickly and efficiently generate APIs for any legacy asset by connecting directly to the legacy system. Automate code

generation and microservices for deployment flexibility. Generate legacy APIs with a couple of clicks—no hand-coding or additional configuration needed!

## Application Modernization



## Key Benefits of Apigee

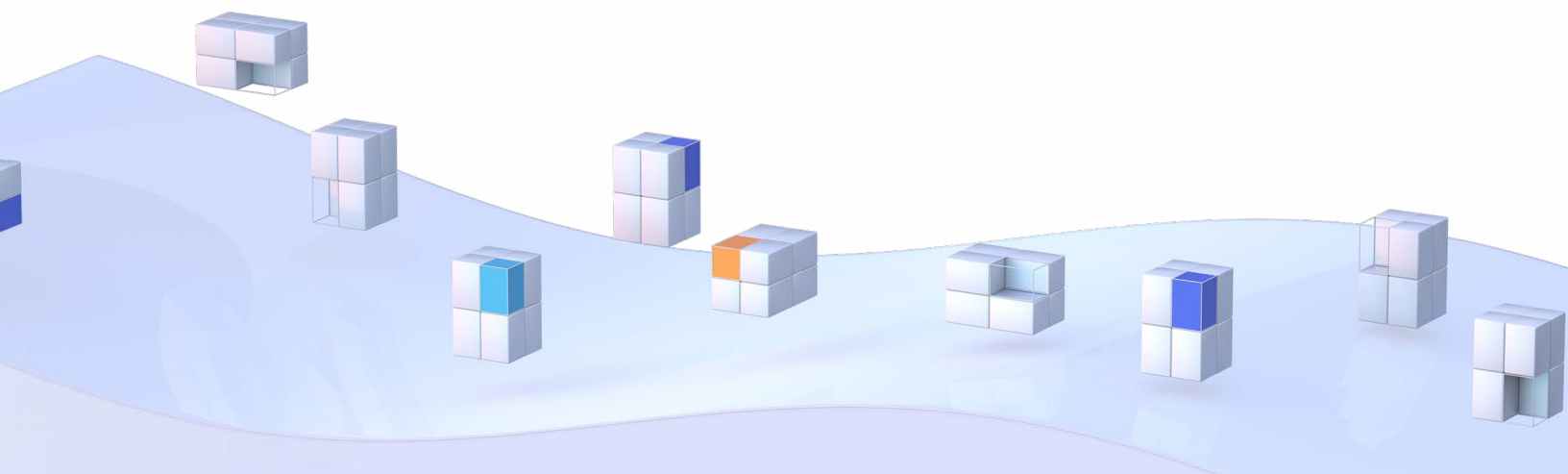
Apigee sits in-line with runtime API traffic and enforces a set of out-of-the-box API policies, including key validation, quota management, transformation, authorization, and access control. A customizable developer portal lets developers consume APIs easily and securely, and helps teams measure API performance and usage. Apigee provides a consistent framework for managing a wide range of APIs, connecting to both internal (on-prem, cloud, or Internet of Things) and external (partner, consumer, or employee) systems and applications.

Apigee provides a developer ecosystem layer that enables an enhanced developer and community experience that accelerates API adoption, simplifies learning, and increases the business value of APIs. Apigee provides multiple options (from fully managed to entirely customizable) developer portal to provide a community for developers with the resources necessary to learn about enterprise API's.

In addition, the Apigee monitoring and reporting layer enables end-to-end across the digital value chain with the unified operational, developer, application performance, and business metrics necessary to monitor, measure, and manage success. In addition, Apigee provides Advanced Ops which provides tools to help you ensure that your APIs stay up and running as intended. Using Apigee, enterprises can participate in and create new ecosystems, provide open APIs, and monetize new opportunities.

Apigee enables the transformation of existing back-end services to APIs with over 30 policies designed for “configure rather than code” deployment. A unified security model is provided throughout the platform. Lastly, enables developers with API programmability, which allows for the extension of Mediation & Intelligence Engine capabilities with support for Java, JavaScript, Node.js, and Python. Thanks to Openlegacy, which provides a direct, easy to develop and streamlined way to access the legacy Systems of Record, customers will be able to deploy end to end solutions from their Legacy to building a cutting edge platform and ecosystems.

- Manage interaction with API consumers to optimize performance
- Transformation capabilities for easy consumption
- Security at the API layer to add additional protection to the legacy assets
- Development Portal dashboard for easy documentation of API contracts
- Analytics at the API level



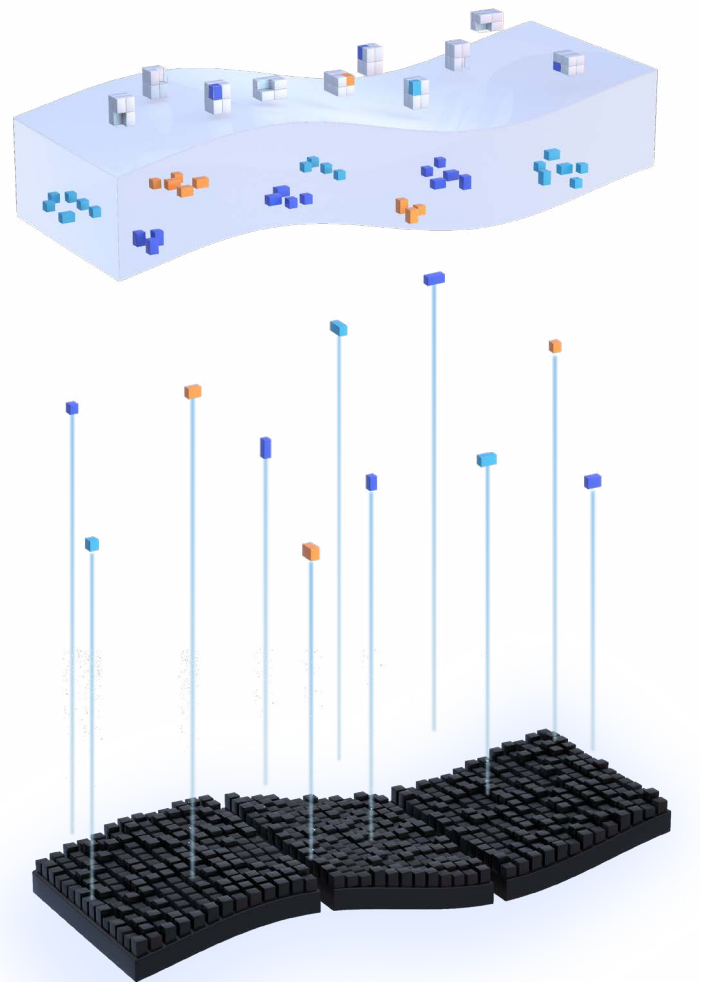
## Key Benefits of OpenLegacy

Speed and efficiency are key advantages of OpenLegacy. OpenLegacy generates microservice-based APIs, which make the API and the connection to the legacy system self-contained. Gathering everything inside a microservice makes it consumable and launchable inside containers, eliminating the need for any additional workflow components like IBM's MQ or CTG, middleware, or SOA architecture tools. Instead, the workflow connects directly to the legacy system through the OpenLegacy module. Since the workflow encapsulates the module, there are no additional outside dependencies, so performance is excellent and component generation is efficient. Additionally, the demand for dedicated hardware and software resources is reduced dramatically.

OpenLegacy provides a tremendous amount of flexibility in implementing and maintaining legacy integrations with template-based customizations. As such, OpenLegacy complements Apigee's power to improve and beautify the APIs by adding code standardization, business logic, orchestration, and many other capabilities.

OpenLegacy's templated nature ensures that it will be easy to maintain compatibility with the connectors across new versions of the Apigee platform. Introduce the needed changes into a template, and the integration code will generate accordingly. This also applies to any component or cross-cutting concern introduced into the automatic code generation process of the OpenLegacy connectors.

The most elegant way to deploy a productive API environment is to let each solution do what it does best. Apigee Edge focuses on enhanced API Management tasks and OpenLegacy focuses on direct, simplified, automated access to your Systems of Record. Together, they provide a fast, simple solution to harnessing legacy assets for digital services.



- Enable Apigee customers to create additional APIs to be managed in the platform
- Direct Connection to almost any legacy and on-premise system
- Automatic code generation of APIs inside microservices.
- Parses metadata and generates SDK that includes run-time connection to legacy system
- Easily deployed into any infrastructure (Docker, PCF, Tomcat, etc).

## Why Apigee & OpenLegacy for SAP?

### Apigee & OpenLegacy

Automated APIs and microservices creation **direct from any SAP systems**



Modern and agile with alignment for DevOps, CI, CD



Support any cloud vendor deployment



Connectivity & Full API management, orchestration, security, repository, and more



**100% open standards** and code-based platform, modern tech



**Central API Factory can connect to different companies**



### About Apigee

Apigee Edge is a full-lifecycle API management platform that lets API providers design, secure, deploy, monitor, and scale APIs. The core API management product includes API runtime capabilities, a mediation and intelligence engine, developer ecosystem services, identity services, and monitoring and reporting capabilities. Together they provide an enterprise foundation to leverage existing systems, shared databases, security frameworks, management infrastructure, and operational tools. Monetization capabilities enable companies to extract value from APIs. Apigee Edge offers three types of deployment models: Cloud, Customer managed and Hybrid to suit every scenario and all the customer needs.

### 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.