

Integration with Apigee

Overview

OpenLegacy's API integration platform is the fastest and most standard way for legacy applications to be part of the Apigee API management and analytics software platform. OpenLegacy quickly and efficiently generates APIs for any legacy asset by connecting directly to the legacy system, automating code generation, and using microservices for deployment flexibility. With a couple of clicks, users can generate a consumable API for management by Apigee. There is no hand coding or additional configuration needed to generate an API that is compatible with Apigee's API proxies.

Key Benefits of OpenLegacy

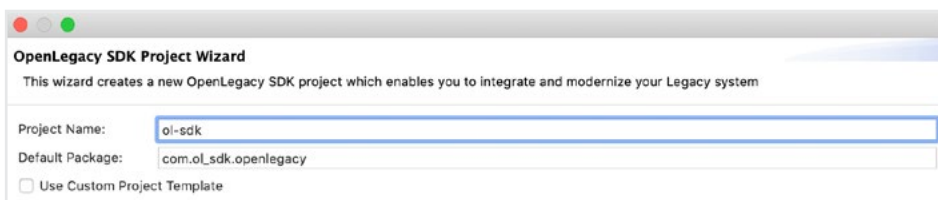
- Enable Apigee customers to create additional APIs to be managed
- Direct Connection to almost any legacy and on-premise system
- Automatic code generation of APIs inside microservices.
- Parses metadata and generates SDK that includes run-time connection to legacy system
- Easily deployed into any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

Key Benefits of Apigee

- 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

How OpenLegacy Works: Legacy API Creation in 10 Easy Steps

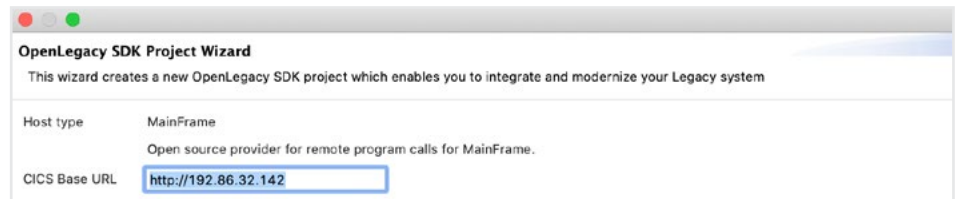
1. Create an SDK project in the OpenLegacy IDE



The screenshot shows a window titled "OpenLegacy SDK Project Wizard". Below the title bar, it says "This wizard creates a new OpenLegacy SDK project which enables you to integrate and modernize your Legacy system". There are two text input fields: "Project Name:" with the value "ol-sdk" and "Default Package:" with the value "com.ol_sdk.openlegacy". At the bottom, there is a checkbox labeled "Use Custom Project Template" which is currently unchecked.

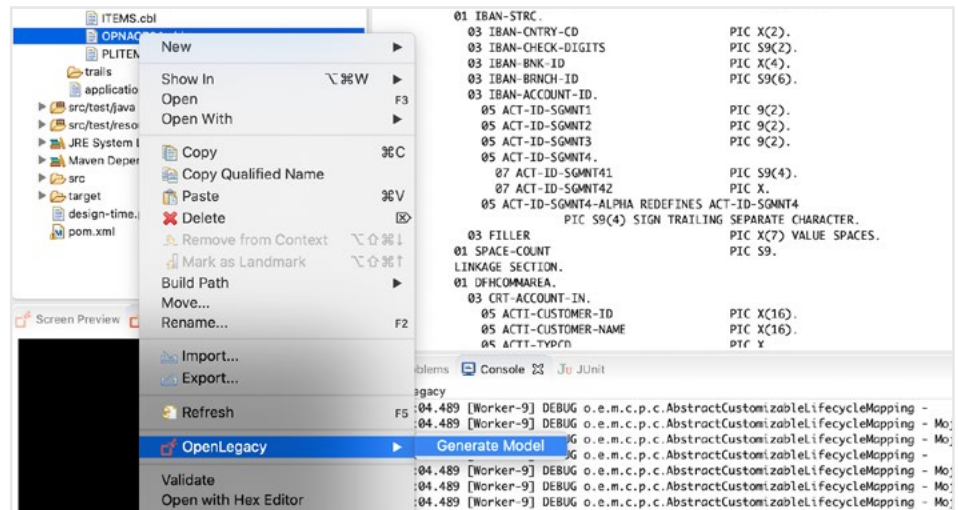
2. Populate the connection configuration (host, port, username, pass, etc.).

This enables OpenLegacy to build the connection information about the backend into the SDK project. It also can retrieve any metadata from the legacy system for parsing.

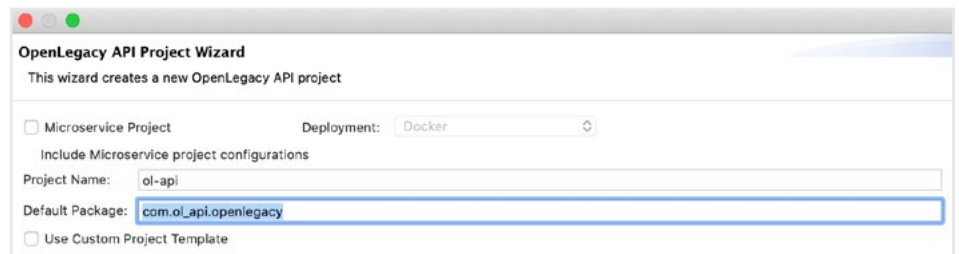


3. Generate Java code based on metadata of back-end program.

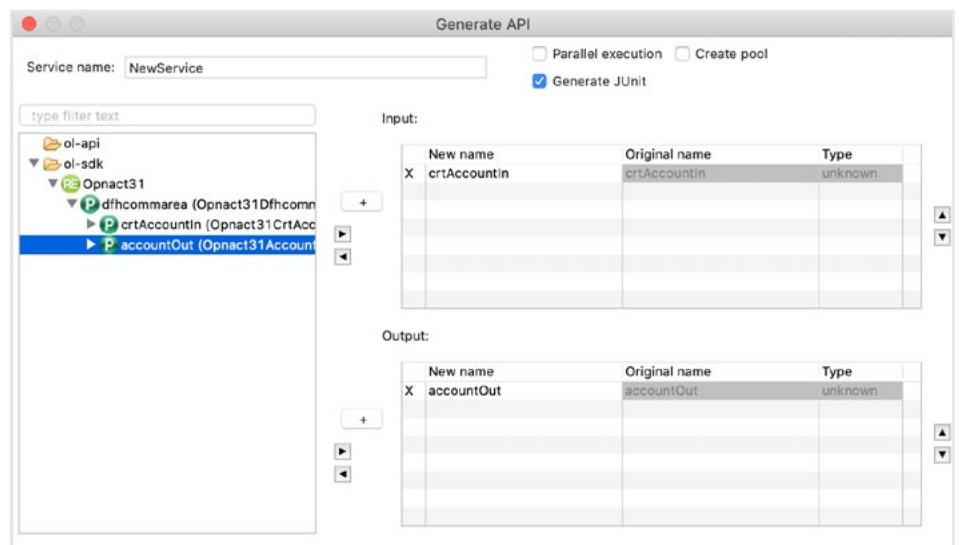
The code goes into the SDK project for use by the APIs.



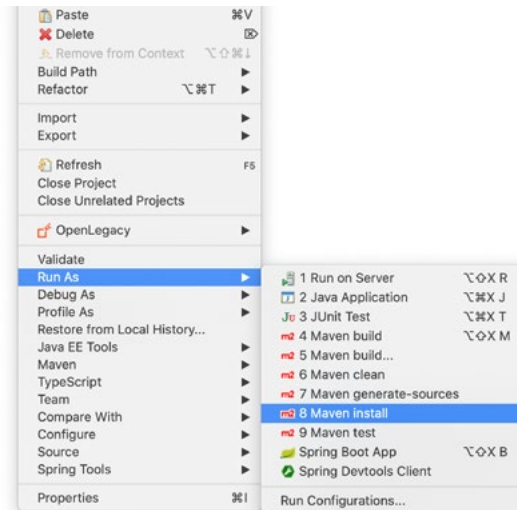
4. Create an API project in the OpenLegacy IDE – API data gets populated from the SDK



5. Create API inputs and outputs based on the back-end asset generated into the SDK



6. Put the microservice-based API into a JAR file by choosing "Maven Install"



7. Configure an API Proxy in the Apigee dashboard – Preparation for deployment and management

Proxy Name*
Valid characters are letters, numbers, dash (-), and underscore (_).

Proxy Base Path*
A path component that uniquely identifies this API proxy. The public-facing URL of this API proxy is comprised of your organization name, an environment where this API proxy is deployed, and this Proxy Base Path. Example URL `http://admin-2734971b-eval-test.apigee.net/olproxy`

Existing API*
Defines the target URL invoked on behalf of this API proxy. Any URL that is accessible over the open Internet can be used. Example: `https://mocktarget.apigee.net`

8. Use the OpenLegacy generated Swagger page to define the existing API for retrieval and deployment

Curl

```
curl -X POST "http://olawsbeanstalk-envwphpbkhwkr-us-east-1.elasticbeanstalk.com/api/createaccount" -H "accept: application/json" -H "Content-Type: application/json" -d '{"actId": "123456", "actInitialDeposit": 1234.56, "actSubType": "M", "actType": "P"}'
```

Request URL

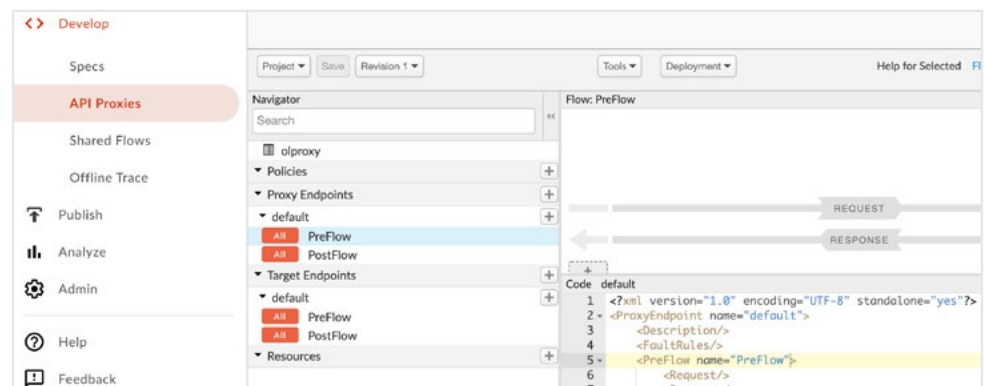
Server response

Proxy Name*
Valid characters are letters, numbers, dash (-), and underscore (_).

Proxy Base Path*
A path component that uniquely identifies this API proxy. The public-facing URL of this API proxy is comprised of your organization name, an environment where this API proxy is deployed, and this Proxy Base Path. Example URL `http://admin-2734971b-eval-test.apigee.net/olproxy`

Existing API*
Defines the target URL invoked on behalf of this API proxy. Any URL that is accessible over the open Internet can be used. Example: `https://mocktarget.apigee.net`

9. Apigee generates API metadata so platform can manage the active instance of the API



10. Test the newly Apigee managed API from a service client, i.e. Postman

The image shows two screenshots. The top screenshot is from the Apigee Developer Portal, displaying the 'API Proxies' section. It shows 'Revision 1 Summary' with a 'test' environment and a deployment URL: <http://admin-2734971b-eval-test.apigee.net/olproxy>. The bottom screenshot is from Postman, showing a POST request to the same URL. The request body is a JSON object with the following structure:

```
1 {
2   "crtAccountIn": {
3     "actiBnkId": "1234",
4     "actiBrnchId": "123456",
5     "actiCntryCd": "IL",
6     "actiCurrency": "USD",
7     "actiCustomerId": "311455698",
8     "actiCustomerName": "Gus Delgado",
9     "actiInitialDeposit": "1234.56",
10    "actiSubTypcd": "8C",
11    "actiTypcd": "P"
12  }
13 }
```

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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