

Edge API Lifecycle and Tools

API Design & Documentation using OpenAPI

Open API Initiative

What Who?

Open governance structure under the Linux Foundation focused on standardizing how REST APIs are described

3scale, Apiary, **Apigee**, Atlassian, CapitalOne, Cloud Elements, **Google**, Hart, IBM, Isa, Mashape, Microsoft, Paypal, Restlet, Artik Cloud, SmartBear, Tyk.io

How?

This vendor agnostic API description format is based in the OpenAPI specification donated by SmartBear.

OpenAPI Specification (OAS)

Open source framework backed by a large ecosystem of tools helping design, build, document, and consume RESTful APIs.



Design

Design APIs in an editor visually rendering the definition with real time feedback and error handling.



Build

Quickly build APIs turning a OpenAPI definition into code (server stubs, client libraries). Over 40 languages supported.



Document

Generate interactive documentation allowing end consumers to easily use the API.

OpenAPI Specification (OAS)



General information about the API

Available paths (/resources)

Available operations on each path (get / resources)

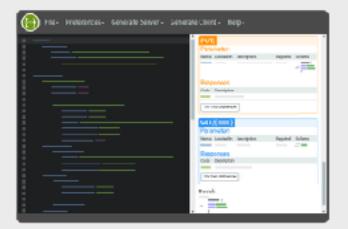
Input/Output for each operation

OpenAPI Specification (OAS)

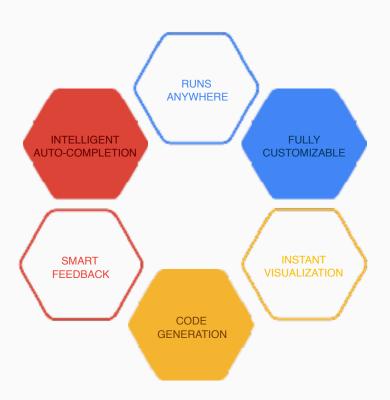


```
swagger: '2.0'
info:
  version: 1.0.0
  title: Echo
  description: |
    #Echos back every URL, method, parameter and header
schemes:
  - http
host: mazimi-prod.apigee.net
basePath: /echo
paths:
 /:
    get:
      responses:
        200:
          description: Echo GET
    post:
      responses:
        200:
          description: Echo POST
      parameters:
        - name: name
          in: formData
          description: name
          type: string
        - name: year
          in: formData
          description: year
          type: string
```

Editor



http://editor.swagger.io/

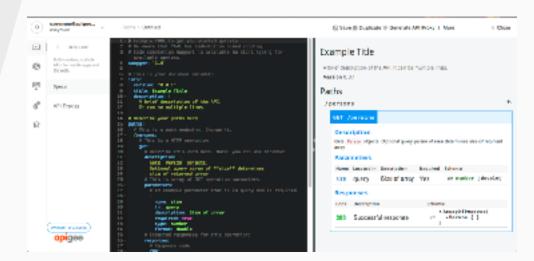


Edge Specs

Embedded OAS editor

Specs Management

Generate new API Proxies



Proprietary + Confidential

Smartdocs

SmartDocs lets you document APIs on the Developer Portal so the API documentation is fully interactive, meaning that users can:

- Read about your APIs
- Send a live request to your API
- View a live response returned from the API

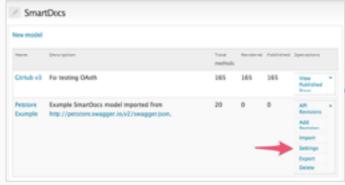
The general steps that you follow to use SmartDocs are:

- Configure the Drupal SmartDocs module on the portal.
- Create a SmartDocs model.
- Add APIs to the model from a WADL file, OpenAPI specification, or manually.
- Render the model as a collection of Drupal nodes.
- Publish the Drupal nodes. Once published, your developer portal users can view and interact with your API.
- Enable TLS. SmartDocs can send authentication credentials to the backend as part of making a request to the APIs. This way we ensure that those credentials are secure.

Proprietary + Confidential

Smartdocs

Model Creation and OAS Import

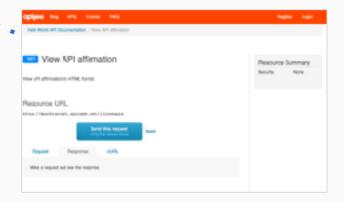




Rendered API Documentation



Interactive



SmartDocs

Manage SmartDocs using Management API

https://github.com/dzuluaga/apigee-tutorials/tree/master/apiproxies/sample-api-smartdocs

Publish to Developer Portal via API

https://community.apigee.com/articles/30739/apis-for-publishing-smartdocs-on-developer-portal.html

THANK YOU