



Introduction to OpenAPI Specification

“The Open API Initiative (OAI) is focused on creating, evolving and promoting a vendor neutral API Description Format based on the Swagger Specification”

For more info about OAI, see <https://openapis.org>

OpenAPI Specification (OAS)

- standard format
- easy to understand
- vendor neutral
- machine readable

OpenAPI Specification (OAS)

1 swagger: '2.0'
2 info:
3 description: 'This is a sample server Petstore server. You can find out more about Swagger at http://swagger.io or on [irc.freenode.net, #swagger](http://swagger.io/irc/). For this sample, you can use the api key 'special-key' to test the authorization filters.'
4 version: 1.0.0
5 title: Swagger Petstore
6 termsOfService: 'http://swagger.io/terms/'
7 contact:
8 email: apiteam@swagger.io
9 license:
10 name: Apache 2.0
11 url: 'http://www.apache.org/licenses/LICENSE-2.0.html'
12 host: petstore.swagger.io
13 basePath: /v2
14 tags:
15 - name: pet
16 description: Everything about your Pets
17 externalDocs:
18 description: Find out more
19 url: 'http://swagger.io'
20 - name: store
21 description: Access to Petstore orders
22 - name: user
23 description: Operations about user
24 externalDocs:
25 description: Find out more about our store
26 url: 'http://swagger.io'
27 schemes:
28 - http
29 paths:
30 /pet:
31 post:
32 tags:
33 - pet
34 summary: Add a new pet to the store
35 description: ''
36 operationId: addPet
37 consumes:
38 - application/json
39 - application/xml
40 produces:

PUT /pet Update an existing pet

GET /pet/findByStatus Finds Pets by status

Multiple status values can be provided with comma separated strings

Parameters

Try it out

Name	Description
status * required	Status values that need to be considered for filter
array [string]	
(query)	

Responses

Response content type application/xml

Code	Description
200	successful operation
	Example ValueModel
	<?xml version="1.0" encoding="UTF-8"?> <!-- XML example cannot be generated -->
400	Invalid status value

OpenAPI Specification (OAS)

- Key Benefits:
 - build mock services
 - generate client SDKs
 - source controlled
 - generate docs and tests
 - use spec as code



Thank You

OpenAPI Specification (OAS)

It describes the elements of an API as its -

- basepath, paths
- verbs, headers, query parameters
- content-types
- request and response payloads

OAS in Apigee Edge

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< DEVELOP

Build modern, scalable APIs for mobile apps and the web.


Specs

API Proxies

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↺

+ Spec ▾



Create your first API Spec

An **OpenAPI Specification** can generate documentation, define how your API is consumed, and control how traffic is shaped. Creating a brand new API? Use a spec to design it *before* you build it. Learn more.

Get started

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+ Spec ▾

NAME

DESCRIPTION

MODIFIED ↓



foodcarts

Manage food carts.

3 minutes ago

Additional reading

Open API Initiative

<https://www.openapis.org/>

OpenAPI Specification

<https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md>

OpenAPI Wiki

<https://github.com/OAI/OpenAPI-Specification/wiki>

Pet store Example

<http://petstore.swagger.io/>

Lab

Please follow the steps provided [here](#)