

# Publishing APIs on Apigee Developer Portal

**Version Control**

Version	Date	Name	Summary of Changes
1.0	22 <sup>nd</sup> December 2015	Neha Pamnani	

## Table of Contents

1. Create a Model.....	4
2. Import an API description .....	4
3. Render and Publish API methods.....	5
4. Configure OAuth 2.0 authentication for SmartDocs.....	6
4.1. Create Security Scheme .....	6
4.2. Configure Template Authentication Scheme.....	9
4.3. Configure Individual Methods of Model .....	10
5. Naming an API's method (Applicable only for Swagger models) .....	10
6. Outcome .....	11

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*NOTE: You can create a new developer portal instance by following this [link](#), if you don't have one already.*

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## 1. Create a Model

NOTE: To create a model either follow the steps specified in [Apigee docs](#) or those given below:

- 1.1. Login with admin rights.
- 1.2. Select **Content** > **SmartDocs**.

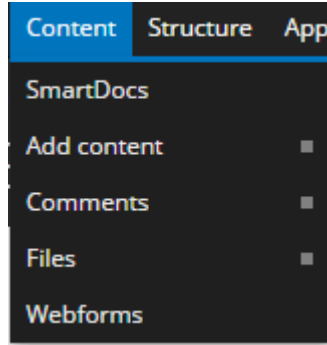


Figure 1 Content Drop-down

- 1.3. Select **New Model**.
- 1.4. Enter the **Name** and **Description** (optional) for the model.
- 1.5. Select **Create Model**.

## 2. Import an API description

### API Descriptions of FHIR resources:

The API descriptions are available in two formats: Swagger JSON and SmartDocs JSON. These API descriptions define requests that point to the FHIR resources deployed on <https://fhirsandbox-test.apigee.net>. It is our recommendation to use the SmartDocs format.

### Swagger JSON:

They can be found at: `flame/src/apidocs/dstu2/swagger`.

In order to change where they point, modify the “host” and “basepath” fields of the swagger JSON file.

After publishing, names of the API methods may be changed using steps specified [here](#).

### SmartDocs JSON:

They can be found at: `flame/src/apidocs/dstu2/smartdocs`.

In order to change where they point, modify all the “baseUrl” fields of the SmartDocs JSON file.

NOTE: To import API description either follow the steps specified in [Apigee docs](#) or those given below:

2.1. Select **Content > SmartDocs**.

2.2. For the model whose API description needs to be added, select **Import** option from Operations menu.

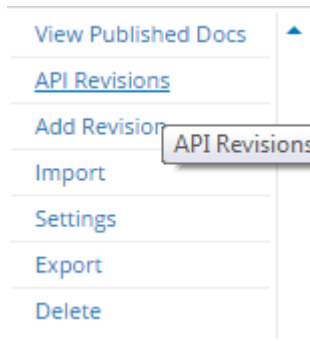


Figure 2 Operations Drop-down

2.3. Select **Swagger - JSON** or **SmartDocs - JSON** in the **Choose Format** dropdown.

 A screenshot of the 'Import Options' form. It contains a 'Note: Swagger 1.2 formats can only be imported by URL.' Below this is a 'Choose format' dropdown menu currently set to 'SmartDocs - JSON'. Underneath is an 'Upload Type' dropdown menu set to 'File'. Below that is a 'File' section with a 'Choose File' button and the text 'No file chosen'. At the bottom of the form is an 'Import' button.

Figure 3 Import page

2.4. Set the **Upload Type** as **File**.

2.5. Using **Choose File** browse to the SmartDocs or Swagger file to be imported.

2.6. Select **Import**.

### 3. Render and Publish API methods

NOTE: To render and publish API's methods either follow the steps specified in [Apigee docs](#) or those given below:

- 3.1. Select **Content > SmartDocs**.
- 3.2. For the model to be rendered, select **API Revisions** in its Operation dropdown.
- 3.3. Select the revision to render.



Figure 4 Revisions page

- 3.4. Select the methods to render and publish.
- 3.5. Select **Render and publish nodes** to render and publish the selected methods.
- 3.6. Select **Update** button.

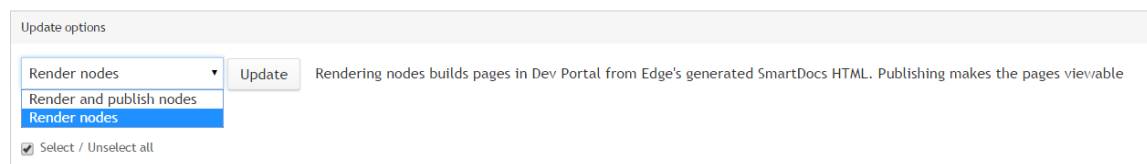


Figure 5 Update Options

- 3.7. You can verify the published methods by clicking on **View API Documentation** on the same page.

## 4. Configure OAuth 2.0 authentication

NOTE: To add OAuth security either follow the steps specified in [Apigee docs](#) or those given below:

OAuth 2.0 authentication can be used to secure the access to the API. Following steps need to be done to accomplish this:

### 4.1. Create Security Scheme

- 4.1.1. Select **Content > SmartDocs**.
- 4.1.2. For the API model which need to be configured, select **API Revisions** from Operations drop-down.
- 4.1.3. For an API revision, select **Security Settings** from Operations drop-down.

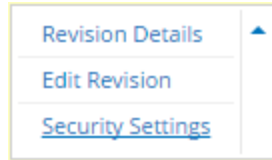


Figure 6 Operations Drop-down

#### 4.1.4. Select **Add Security Scheme**.

## Security Settings for API Revision #1

### [Add Security Scheme](#)

To manage the template auth schemes, go to the [template auth settings](#).

Figure 7 Security Settings

#### 4.1.5. Specify the following values for the security scheme:

- 4.1.5.1. Specify the **Name** for security scheme.
- 4.1.5.2. If using SmartDocs-JSON format, make sure to specify the **oauth-2-0** as the **Internal Name** for security scheme.
- 4.1.5.3. For **Type**, select OAuth 2.0
- 4.1.5.4. For **Authorization URL**, specify the URL to obtain the access token. i.e.  
 E.g. <https://{org-name}-{env}.apigee.net/oauth/v2/authorize?scope=patient/Encounter.read&state=uyrjiga23nv8650ndj>  
 The query parameter scope should have the value corresponding to the FHIR Resource i.e. patient/<Resource Name>.read
- 4.1.5.5. For **Access token url**, specify the URL used to exchange the request token for an access token i.e. <https://{org-name}-{env}.apigee.net/oauth/v2/accesstoken>

Home

## Add Security Scheme

Name <sup>\*</sup>

OAuth Internal name: oauth [Edit]

Type

OAuth 2.0 ▼

Grant Type <sup>\*</sup>

☒ Authorization Code

Authorization URL <sup>\*</sup>

https://fhirsandbox-test.apigee.net/oauth/v2/authorize?scope=patient/Medicat

Access token url

https://fhirsandbox-test.apigee.net/oauth/v2/accesstoken

[Advanced Settings](#)

Figure 8 Configure Security Scheme

In Advanced Settings:

- 4.1.5.6. Set **Authorization verb** to POST
- 4.1.5.7. Set **Authorization Request Method** to Header
- 4.1.5.8. Set **“When making the call to get an access token, pass the client id and secret in the:”** value to **Header**.
- 4.1.5.9. Set **Scopes** to: {"patient/<Resource Name>.read": "Read permissions for <Resource Name> demographics"}  
E.g.: {"patient/Encounter.read": "Read permissions for Encounter demographics"}



Content Structure Appearance People Modules Configuration Layer Slider Reports Help

https://fhrsandbox-test.apigee.net/oauth/v2/accesstoken

### Advanced Settings

Authorization verb \*

☐ GET

☒ POST

Authorization Request Method \*

Header ▾

How the access token will be passed when using the send request feature.

When making the call to get an access token, pass the client id and secret in the:

Header ▾

How the client authenticates with the authorization server.

Scopes

{ "patient/Encounter.read": "Read permissions for Encounter demographics" }

Please enter a JSON object of scopes, e.g: { "write:pets": "modify pets in your account", "read:pets": "read your pets" }

**Submit**

Figure 9 Configure Advanced Settings

4.1.5.10. Select **Submit**.

## 4.2. Configure Template Authentication Scheme

4.2.1. Select **Content** > **SmartDocs**.

4.2.2. For the same model, select **Settings** from Operations drop-down.

4.2.3. In Template authentication schemes, set **Client Id** & **Client Secret** of the App.

### Template authentication schemes

For additional help in configuring template authentication schemes, consult the [online documentation](#).  
To manage the security objects, go to the [security settings](#).

#### oauth-2-0

Type: OAuth2

Client Id \*

Client Secret \*

Figure 10 Template Authentication Schemes

## 4.3. Configure Individual Methods of Model (Applicable only for Swagger models)

4.3.1. Select **Content** > **Smartdocs**

4.3.2. For the same API model, select **View Published Docs** from Operations drop-down.

4.3.3. For each method inside the model which needs to be secured:

4.3.3.1. Click on the method's name that needs to be secured.

4.3.3.2. Select its Edit tab.

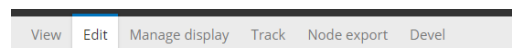


Figure 11 Method's Edit tab

4.3.3.3. In Security schemes, enable checkbox for the created OAuth scheme.

Security schemes

☒ oauth-2-0 (OAuth2: Authorization\_code)

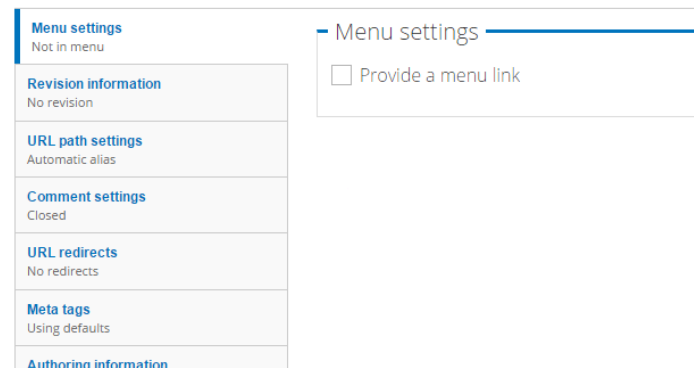


Figure 12 Add Security to Method

4.3.3.4. Select Save.

## 5. Naming an API's method (Applicable only for Swagger models)

Naming can be done only after publishing. The methods have already been named appropriately via the SmartDocs models. Hence, if the SmartDocs json models are utilized for creating the api model then ideally this step would not be required.

5.1. Select **Content** > **SmartDocs**.

5.2. For the same API model, select **View Published Docs** from Operations drop-down.

5.3. For each method inside the model which needs to be named:

5.3.1. Select **Edit** tab.

View Edit View model revision

Figure 13 Edit tab

### 5.3.2. Specify the **Name**.

Figure 14 Edit page

### 5.3.3. Select **Save**.

## 6. Outcome

After completion of all the steps, API methods can be viewed.

6.1. Select **Content** > **SmartDocs**.

6.2. For the required model, select **View Published Docs** from Operations dropdown.

6.3. Select an API method, like Read Patients, to check the following outcome.

Environment	URL
Live	https://fhirsandbox-test.apigee.net/v2/Patient

Figure 15 Method's View