


Testing APIs

When you have finished configuring your API, **Scheer PAS API Management** allows you to test your implemented configurations.

 Testing of API configurations is only possible with REST APIs that are coming with an [OpenAPI Specification](#).


There are slight differences between the testing of a **public** API and the testing of a **private** API:

- **Private** APIs are only accessible for known consumers, called [clients](#) in API Management context. For Private APIs, a contract must be created between the client and the API it wishes to consume. If you want to test a Private API, you need to test it via one of the created clients.
- **Public** APIs can be invoked by any consumer. However, API Management still allows to restrict access to Public APIs by adding [policies](#).

While testing, you can check if the API is invocable. If you have configured policies for an API, you can also check if these policies are applied correctly.

API Definition

To test an API with API Management, you need to provide an API definition in [Swagger format](#). For more information on API definitions, refer to [Managing APIs > Definition](#).

 If the API has been imported from the API Catalog, the definition file should have been added automatically.

If you have added policies to your API setup, you may have to add some information to the API definition file, e.g. regarding tokens that need to be supplied.

Testing the API

The process of testing itself is the same regarding public and private APIs. However, how to access the test page within API Management differs.

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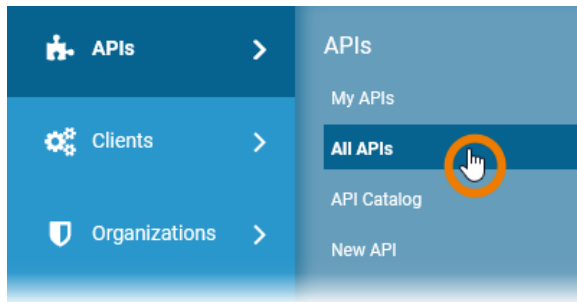
- [APIs](#)
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Related Documentation:

- [Swagger Documentation](#)

Test Page of Public APIs

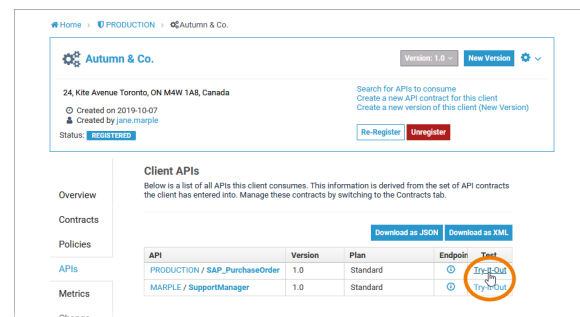
If you want to test an API marked as **Public**, you need to open the [details page](#) of the API. Open the [sidebar menu](#) and select **All APIs** from menu item **APIs**:



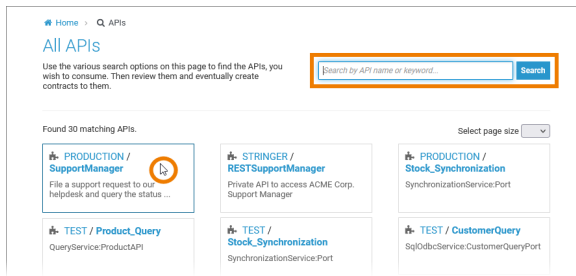
On page **All APIs** lookup the API you want to test and click on its name:

Test Page of Private APIs

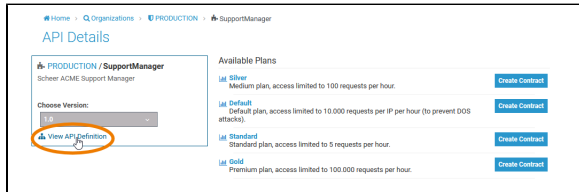
Open the [detail page](#) of a client and go to tab **APIs**. In this tab you will find a list of all APIs the client consumes.



Click **Try-It-Out** on the API you want to test.



The details page of the API opens. If the API has a definition file linked, a link **View API Definition** is displayed:



Click this link to open the **API Definition** in test mode.

Testing

You can use the Swagger UI to make test calls to your service. Click on the method you want to test and use the **Try it out** button.



For more information about the functions of the Swagger UI, go to the [Swagger homepage](#).



Currency Converter



This API converts an amount of one currency into that of another based on real-time currency rates. These currency rates are compiled from...

API Documentation

Learn more

You can also use the API Developer Portal to access the Swagger UI and make your test calls (refer to chapter [D Developer Portal](#) for further information).

Click on the button **API Documentation** which you can find on an API tile...

Version 1.0 of Currency Converter
[\[latest\]](#)

[API Documentation](#)

This API converts an amount of one currency into that of another based on real-time currency rates. These currency rates are compiled from many global sources and are updated several times per day.

Extended Description

No further description has been stored for this API

Plans

...or on the details page of an API.

Testing the Application of a Policy

You can also test policy application using the Swagger UI. Assume that for the current API ([SupportManager](#) in this case) the [Ignored Resources Policy](#) has been added. Consumers of the API should not be able to execute `GET /supportcases /*`:

Add Policy

Adding a policy will allow its specific functionality to be applied to the API invocation as part of the overall policy chain.

Policy Type

Ignored Resources Policy

Ignored Resources Policy Configuration

Manage the list of API routes that will be ignored.

Ignore Resources Rule

Ignored URI

`/path/to/*`

HTTP Method

*

Add

Ignored Resources

Path	Method
/supportcases/*	GET

Add

Add Policy

Cancel

To test if the policy is applied to a call, try to test the ignored resource.

If everything is fine, an HTTP 404 error is displayed in section **Server response**.

Server response

Code

Details

404

Error: Not Found

Response body


```
{
  "type": "NotFound",
  "failureCode": 10007,
  "responseCode": 404,
  "message": "Requested path \"/supportcases\" has been ignored.",
  "headers": {}
}
```

Download

Response headers


```
content-type: application/json
date: Wed, 05 Jun 2022 10:08:17 GMT
server: nginx
x-firefox-spidy: h2
x-policy-failure-code: 10007
x-policy-failure-message: Requested path "/supportcases" has been ignored.
x-policy-failure-type: NotFound
```

Responses

Code	Description
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The **Response body** shows the error message `"Requested path \"/supportcases\" has been ignored."`. Thus, the API has been invoked and the Ignored Resources Policy has been applied to the call as intended.