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## Access Versa Director REST APIs Using Swagger UI

 For supported software information, click [here](#).

Versa Director is integrated with Swagger, which provides a webpage to display the Director REST APIs. You can use Swagger UI to run real-time REST API commands and to export the APIs as YAML or JSON files that you can use to generate client code.

Versa Director provides REST APIs so that you can integrate upstream (northbound) applications. A number of integration options allow you to customize the integration of applications. For more information, see [Versa Director REST API Overview](#).

This article describes how to access the Swagger webpage, navigate to different APIs by section, export and download APIs, and generate client code for the API file.

Note that to access the Swagger webpage, you need the management IP address or domain name of the Versa Director on which you want to execute the REST APIs. No additional permissions are required to run the REST API client.

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### Access the Swagger Webpage

1. Open a browser and enter a URL in one of the following formats to open the Swagger web page:

```
https://director_ip_address:9182/docs/swagger-ui.html  
https://director_hostname:9182/docs/swagger-ui.html
```

Note that in Chrome, when you are on the `NET::ERR_CERT_INVALID` tab, you may have to accept a certificate or accept the "This is unsafe" option to proceed.



## Your connection is not private

Attackers might be trying to steal your information from **vd** (for example, passwords, messages, or credit cards). [Learn more](#)

NET::ERR\_CERT\_INVALID



To get Chrome's highest level of security, [turn on enhanced protection](#)

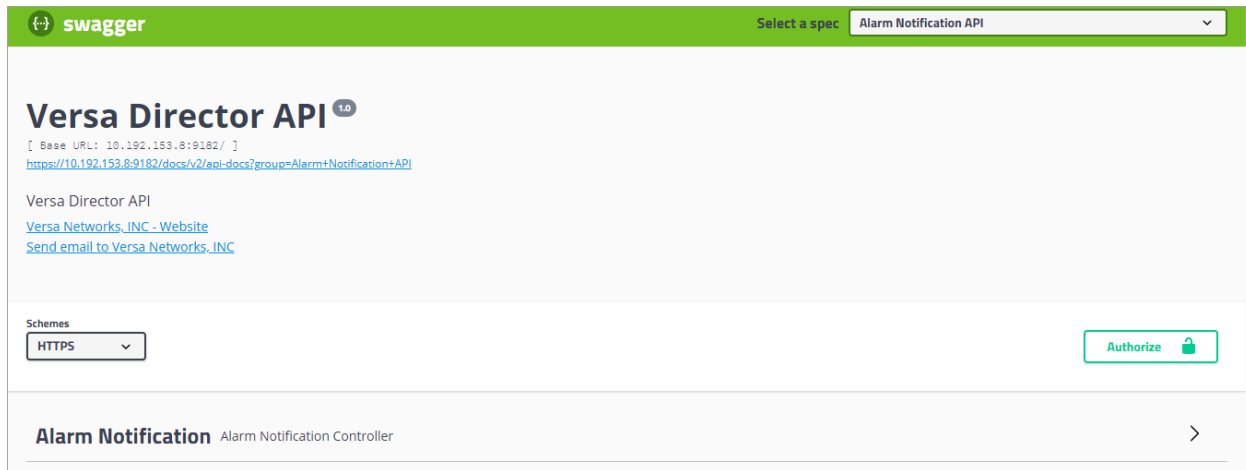
Hide advanced

Reload

vd normally uses encryption to protect your information. When Chrome tried to connect to vd this time, the website sent back unusual and incorrect credentials. This may happen when an attacker is trying to pretend to be vd, or a Wi-Fi sign-in screen has interrupted the connection. Your information is still secure because Chrome stopped the connection before any data was exchanged.

You cannot visit vd right now because the website sent scrambled credentials that Chrome cannot process. Network errors and attacks are usually temporary, so this page will probably work later.

2. The Swagger webpage for the Director REST APIs displays.



3. To grant different levels of access to API data for different users, click Authorize. The Available Authorizations window displays, and you can set authorization scopes.
4. Enter the login credentials to log in to Versa Director.

Available authorizations

Basic authorization

Username:

Password:

Authorize

Close

Scopes are used to grant an application different levels of access to data on behalf of the end user. Each API may declare one or more scopes.

API requires the following scopes. Select which ones you want to grant to Swagger UI.

oauth2schema (OAuth2, password)

Token URL: https://10.192.153.8:9182/auth/token

Flow: password

username:

password:

type:

Request body

client\_id:

client\_secret:

Scopes:

☐ global

Global Access to All Apis.

Authorize

Close

5. Click Authorize to save the changes.

[https://docs.versa-networks.com/Management\\_and\\_Orchestration/Versa\\_Director/Director\\_REST\\_APIs/Access\\_Versa\\_Direct...](https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Director_REST_APIs/Access_Versa_Direct...)

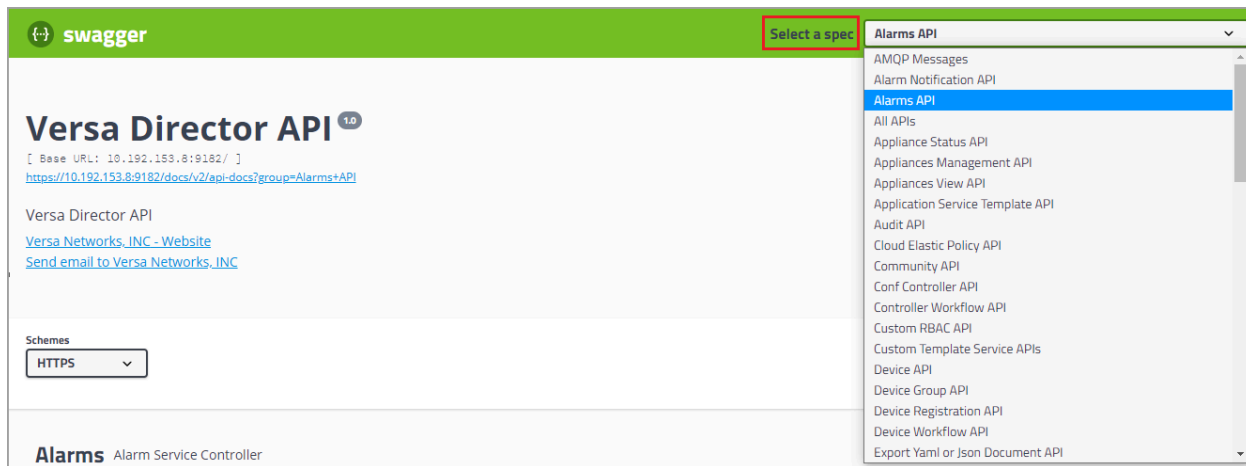
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## Navigate to the Director REST APIs

1. On the Swagger webpage, select an API in the Select a Spec field in the top menu bar.



The selected API details are displayed in the main window. The following screen displays the Alarms API group.


**swagger**

Select a spec
Alarms API

## Versa Director API <sup>1.0</sup>

[ Base URL: 10.192.153.8:9182/ ]  
<https://10.192.153.8:9182/docs/v2/api-docs?group=Alarms+API>

Versa Director API  
[Versa Networks, INC - Website](#)  
[Send email to Versa Networks, INC](#)

Schemes
HTTPS

Authorize

### Alarms Alarm Service Controller

POST
/vnms/fault/alarm/assign
Assign an alarm

Assign an alarm to a user

Parameters

Try it out

Name	Description
alarm string (query)	alarm
<b>assignee</b> * required string (query)	Username of assignee
<b>description</b> * required string (query)	Description of the handling action
<b>state</b> * required string (query)	New handling state

Responses

Response content type: application/json

Code	Description
200	<div>OK</div> <div>Example Value   Model</div> <div>{}</div>
201	<div>Created</div>
204	<div>(empty string)</div> <div>Example Value   Model</div> <div>"string"</div>
401	<div>Unauthorized</div>
403	<div>Forbidden</div>
404	<div>Not Found</div>

2. To change the values of an API, click Try It Out and update the required fields.

[https://docs.versa-networks.com/Management\\_and\\_Orchestration/Versa\\_Director/Director\\_REST\\_APIs/Access\\_Versa\\_Direct...](https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Director_REST_APIs/Access_Versa_Direct...)

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**Alarm Notification** Alarm Notification Controller

**GET** /vnms/alarm/notification Retrieve all alarm-based notification rules with filtering

Retrieve all alarm-based notification rules with filtering

**Parameters** Cancel

Name	Description
filters string (query)	optional filter filters - optional filter
limit integer(\$int32) (query)	how many records to return 25
offset integer(\$int32) (query)	offset from which to retrieve offset - offset from which to retrieve

**Execute**

3. Click Execute.

## Export APIs To Generate Client Code

Swagger UI allows you to export a selected API group or all API groups as YAML or JSON files. You can also download the files as .zip files.

To export APIs:

1. In the Swagger webpage, select Export YAML or JSON Document API in the Select a Spec field in the top menu bar.

**swagger** Select a spec **AMQP Messages**

**Versa Director API** <sup>1.0</sup>

[ Base URL: 10.192.139.8:9102/ ]  
<https://10.192.139.8:9102/docs/v2/api-docs?group=AMQP+Messages>

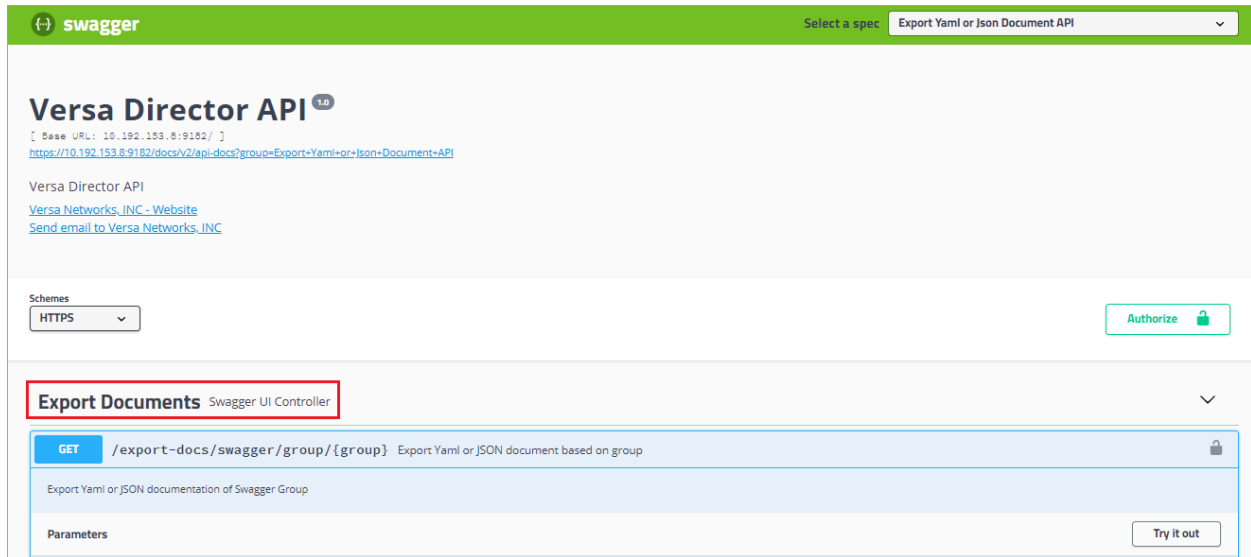
Versa Director API  
[Versa Networks, INC - Website](#)  
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**Schemes**  
 HTTPS

**amqp** AMQP Event Controller

- AMQP Messages
- Alarm Notification API
- Alarms API
- All APIs
- Appliance Status API
- Appliances Management API
- Appliances View API
- Application Service Template API
- Audit API
- Cloud Elastic Policy API
- Community API
- Conf Controller API
- Controller Workflow API
- Custom RBAC API
- Custom Template Service APIs
- Device API
- Device Group API
- Device Registration API
- Device Workflow API
- Export Yaml or Json Document API**

2. Click Export Documents in the main screen. The Export YAML or JSON Document Based on Group section displays.



3. Click Try it Out, and enter the following information:

- a. In the docType field, select JSON or YAML as the file type.
  - b. In the Group field, select the API group you want to export or select All APIs to export all Director REST API groups.
4. Click Execute.
5. To download the API group file (JSON or YAML) as a .zip file to the local device, click Download File, and then save the file.



swagger
Select a spec: Export Yaml or Json Document API

## Versa Director API <sup>1.0</sup>

[ Base URL: 10.192.153.8:9182/ ]  
<https://10.192.153.8:9182/docs/v2/apl-docs?group=Export+Yaml+or+Json+Document+API>

Versa Director API  
[Versa Networks, INC - Website](#)  
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Schemes

HTTPS

Authorize

### Export Documents

Swagger UI Controller

GET /export-docs/swagger/group/{group} Export Yaml or JSON document based on group

Export Yaml or JSON documentation of Swagger Group

Parameters

Cancel

Name	Description
docType string (query)	docType JSON
group * required string (path)	group UCPE Images API

Execute Clear

Responses

Response content type application/json

Curl

```
curl -X GET "https://10.192.153.8:9182/export-docs/swagger/group/Template%20Service%20APIs?docType=JSON" -H "accept: application/yml"
```

Request URL

```
https://10.192.153.8:9182/export-docs/swagger/group/Template%20Service%20APIs?docType=JSON
```

Server response

Code	Details
200	<div>Response body</div> <div>Download file</div> <div>Response headers</div> <pre> cache-control: no-cache, no-store, max-age=0, must-revalidate connection: keep-alive content-disposition: attachment; filename=Template Service APIs.json content-length: 48115 content-type: application/json date: Thu, 25 Aug 2022 06:41:15 GMT expires: 0 keep-alive: timeout=60 pragma: no-cache strict-transport-security: max-age=31536000 ; includeSubDomains x-content-type-options: nosniff x-frame-options: DENY x-xss-protection: 1; mode=block </pre>

## Generate Client Code

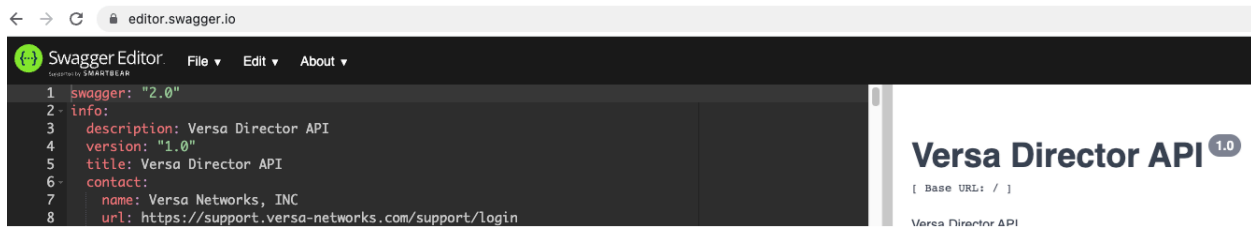
To generate client code for the downloaded API file (JSON or YAML):

1. Navigate to <https://editor.swagger.io/>. The SwaggerEditor webpage displays.

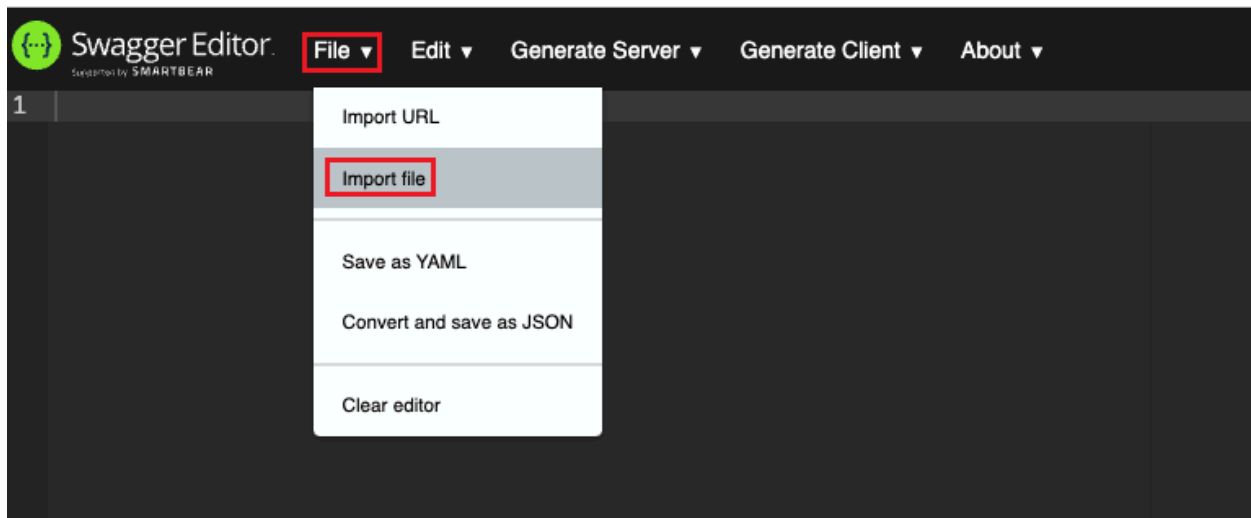
[https://docs.versa-networks.com/Management\\_and\\_Orchestration/Versa\\_Director/Director\\_REST\\_APIs/Access\\_Versa\\_Direct...](https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Director_REST_APIs/Access_Versa_Direct...)

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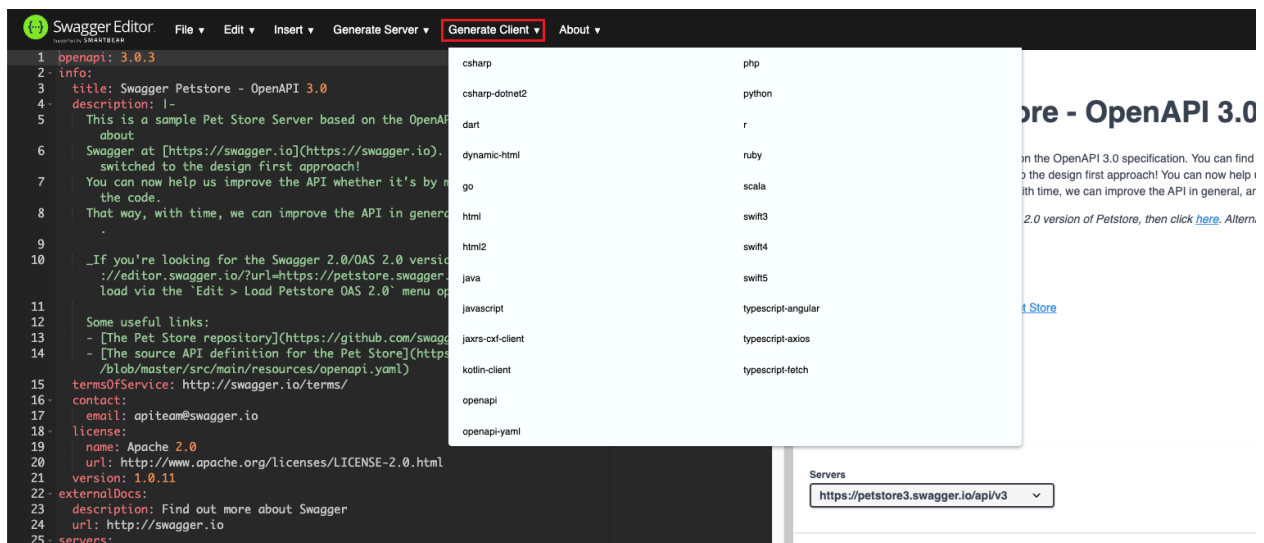
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2. Click File > Import file, and then select the API file you saved in [Export APIs To Generate Client Code](#), above.



3. Click Generate Client, and select a client and the language of the code to generate.



4. Save the file at the desired location.

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## Supported Software Information

Releases 21.2 and later support all content described in this article.

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## Additional Information

[Versa Director REST API Overview](#)