

Access Versa Concerto REST APIs Using Swagger UI

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

Versa Concerto is integrated with Swagger, which provides a webpage to display the Concerto 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.

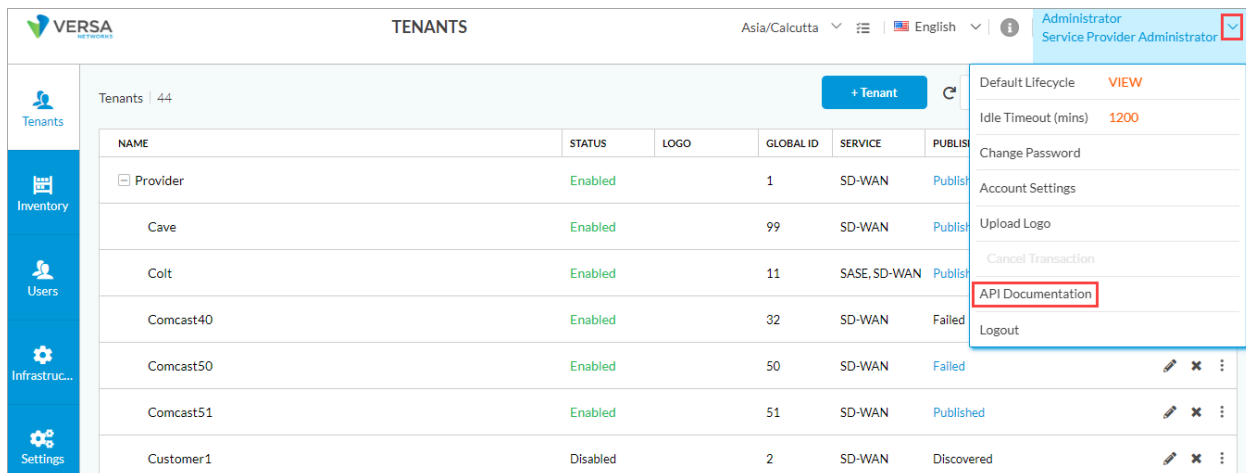
Concerto provides REST APIs so that you can integrate upstream (northbound) applications. A number of integration options allow you to customize the integration of applications.

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 Concerto device on which you want to execute the REST APIs. No additional permissions are required to run the REST API client.

Access the Swagger Webpage

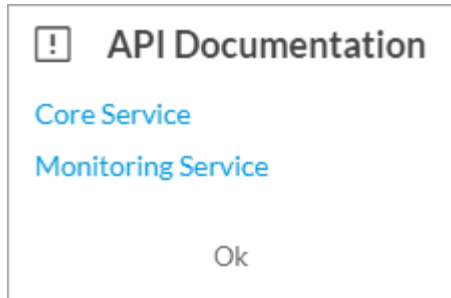
1. Log in to the Concerto portal. Note that in Chrome, when you are on the NET::ERR_CERT_INVALID tab, you may have to accept a certificate or accept the "This is unsafe" option to proceed.



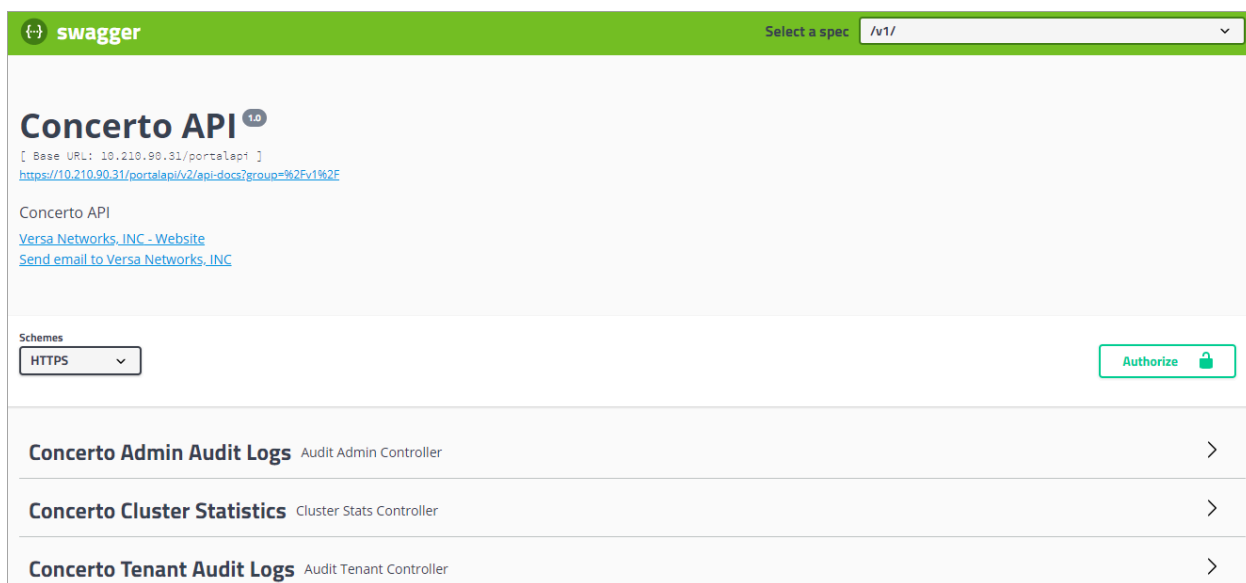
The screenshot shows the Versa Concerto 'TENANTS' page. The top navigation bar includes the Versa logo, the title 'TENANTS', location 'Asia/Calcutta', language 'English', and a user menu for 'Administrator Service Provider Administrator'. The left sidebar has icons for 'Tenants', 'Inventory', 'Users', 'Infrastruc...', and 'Settings'. The main content area shows a table of tenants with columns: NAME, STATUS, LOGO, GLOBAL ID, SERVICE, and PUBLIS. A dropdown menu is open from the user menu, showing options like 'Default Lifecycle', 'Idle Timeout (mins)', 'Change Password', 'Account Settings', 'Upload Logo', 'Cancel Transaction', 'API Documentation' (highlighted with a red box), and 'Logout'.

NAME	STATUS	LOGO	GLOBAL ID	SERVICE	PUBLIS
Provider	Enabled		1	SD-WAN	Publis
Cave	Enabled		99	SD-WAN	Publis
Colt	Enabled		11	SASE, SD-WAN	Publis
Comcast40	Enabled		32	SD-WAN	Failed
Comcast50	Enabled		50	SD-WAN	Failed
Comcast51	Enabled		51	SD-WAN	Published
Customer1	Disabled		2	SD-WAN	Discovered

2. Click the user menu in the top menu bar, and then select API documentation. The API documentation popup window displays.



3. Select Core Service or Monitoring Service.
4. The Swagger webpage for the Concerto REST APIs displays.



5. 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.
6. Enter the login credentials to log in to Concerto.

Available authorizations

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)

Application: concerto

Token URL: `https://10.210.90.31/portalapi/v1/auth/token`

Flow: password

username:

password:

type:

Request body

client_id:

client_secret:

Scopes:

☐ *global*
Global Access to All Apis.

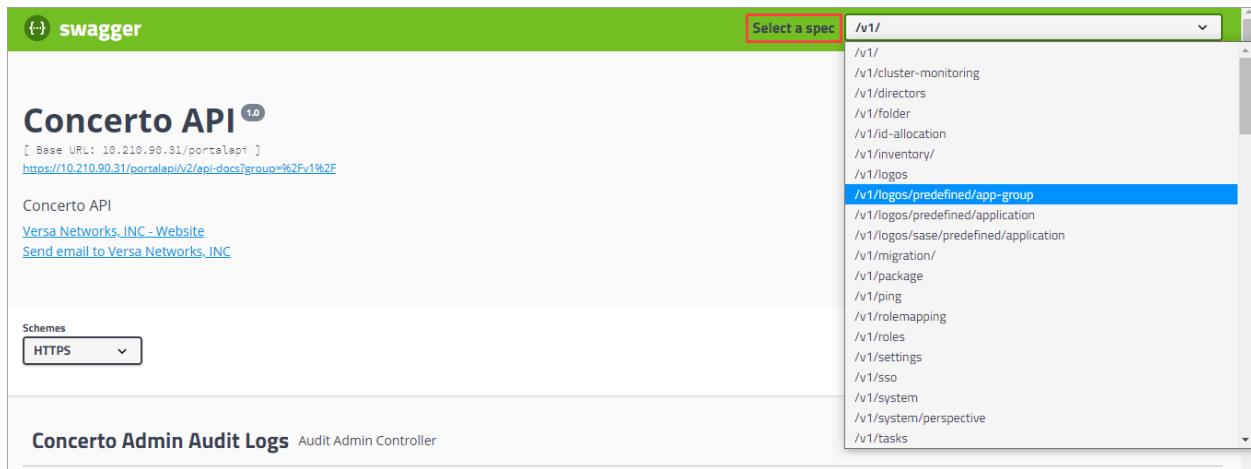
Authorize

Close


7. Click Authorize to save the changes.

Navigate to the Concerto REST APIs

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



The details of the selected API call display in the main window. The following screen displays the Predefined App Group Logo Controller API group.


swagger
Select a spec
/v1/logos/predefined/app-group

Concerto API

[Base URL: 10.210.90.31/porta1api]
<https://10.210.90.31/porta1api/v2/api-docs?group=%2Fv1%2Flogos%2Fpredefined%2Fapp-group>

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

Schemes

HTTPS

Authorize

GET

/v1/logos/predefined/app-group

getAllLogos

Get logo and title for a application group

Parameters

Try it out

Name	Description
nextWindowNumber integer (int32) (query)	Next cursor in the list. Default value: 0
searchKeyword string (query)	The search keyword.
windowSize integer (int32) (query)	The number of logos to be fetched in a page. Defaults to 10 Default value: 10

Responses

Response content type: application/json

Code	Description
200	<div>Returns logo and title</div> <div>Example Value Model</div> <pre>{ "title": "string", "imageType": "string", "logoDataUrl": "string" }</pre>
400	<div>Exception</div> <div>Example Value Model</div> <pre>{ "error": "string", "exception": "string", "message": "string", "path": "string", "status": "string", "timestamp": "string" }</pre>
401	Unauthorized
403	Forbidden
404	Not Found

GET

/v1/logos/predefined/app-group/{group}

getLogo

Models

```
ECPErr {
  error string
  exception string
  message string
  path string
  status string
  timestamp string
}
```

```
LogoData {
  title string
  imageType string
  logoDataUrl string
}
```

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

https://docs.versa-networks.com/Management_and_Orchestration/Versa_Concerto_Orchestrator/02_Common_Configuration/...

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predefined-app-group-logo-controller Predefined App Group Logo Controller

GET /v1/logos/predefined/app-group getAllLogos

Get logo and title for a application group

Parameters Cancel

Name	Description
nextWindowNumber integer(\$int32) (query)	Next cursor in the list. <input type="text" value="nextWindowNumber - Next cursor in the list."/>
searchKeyword string (query)	The search keyword. <input type="text" value="searchKeyword - The search keyword."/>
windowSize integer(\$int32) (query)	The number of logos to be fetched in a page. Defaults to 10 <input type="text" value="10"/>

Execute

3. Click Execute.

Export JSON Files for Concerto APIs

To export JSON files for Concerto APIs, on the Swagger webpage, click the highlighted URL to generate YAML for all the APIs.

swagger Select a spec /v1/

Concerto API ^{1.0}

[Base URL: 10.210.90.31/portalapi]

<https://10.210.90.31/portalapi/v2/api-docs?group=%2Fv1%2F>

Concerto API

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Schemes

HTTPS

Authorize

Concerto Admin Audit Logs Audit Admin Controller >

Concerto Cluster Statistics Cluster Stats Controller >

Concerto Tenant Audit Logs Audit Tenant Controller >

API documentation displays in JSON format. For example:

https://docs.versa-networks.com/Management_and_Orchestration/Versa_Concerto_Orchestrator/02_Common_Configuration/...

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```
{
  "swagger": "2.0",
  "info": {
    "description": "Concerto API",
    "version": "1.0",
    "title": "Concerto API",
    "contact": {
      "name": "Versa Networks, INC",
      "url": "https://support.versa-networks.com/support/login",
      "email": "support@versa-networks.com"
    },
    "host": "10.210.90.31",
    "basePath": "/portalapi",
    "tags": [
      {
        "name": "Concerto Admin Audit Logs",
        "description": "Audit Admin Controller"
      },
      {
        "name": "Concerto Cluster Statistics",
        "description": "Cluster Stats Controller"
      },
      {
        "name": "Concerto Tenant Audit Logs",
        "description": "Audit Tenant Controller"
      },
      {
        "name": "Access Control Rule Controller",
        "description": "Access Control Rule Controller"
      },
      {
        "name": "Appliance Controller",
        "description": "Appliance Controller"
      },
      {
        "name": "Application Elements Controller",
        "description": "Application Elements Controller"
      },
      {
        "name": "Application Policy Controller",
        "description": "Application Policy Controller"
      },
      {
        "name": "Application Rule Controller",
        "description": "Application Rule Controller"
      },
      {
        "name": "BGP Peer Policy Controller",
        "description": "BGP Peer Policy Controller"
      },
      {
        "name": "Cloud App Security Controller",
        "description": "Cloud App Security Controller"
      },
      {
        "name": "Config Propagation Controller",
        "description": "Config Propagation Controller"
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      {
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        "description": "the configuration API"
      },
      {
        "name": "Data Loss Prevention Data Patterns Controller",
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      {
        "name": "Data Loss Prevention Data Protection Profile Controller",
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      },
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        "description": "EIP Profile Controller"
      },
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        "name": "File Filtering Controller",
        "description": "File Filtering Controller"
      },
      {
        "name": "Folder Controller",
        "description": "Folder Controller"
      },
      {
        "name": "Global Setting B 2 B IP Sec Config Controller",
        "description": "Global Setting B 2 B IP Sec Config Controller"
      },
      {
        "name": "Global Setting SDWAN Clean Config Controller",
        "description": "Global Setting SDWAN Clean Config Controller"
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      {
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        "description": "ID Allocation Controller"
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      {
        "name": "Infra Setting Controller",
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      },
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        "description": "the Migration API"
      },
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      },
      {
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        "description": "Monitor Appliance Controller"
      },
      {
        "name": "Monitor Elements Controller",
        "description": "Monitor Elements Controller"
      },
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        "name": "Monitoring Perspective Controller",
        "description": "the configuration API"
      },
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        "name": "Network Service Policy Controller",
        "description": "Network Service Policy Controller"
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        "name": "Network Service Rule Controller",
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        "description": "Package Upgrade Controller"
      },
      {
        "name": "Ping Controller",
        "description": "Ping Controller"
      },
      {
        "name": "Predefined App Group Logo Controller",
        "description": "Predefined App Group Logo Controller"
      },
      {
        "name": "Predefined App Logo Controller",
        "description": "Predefined App Logo Controller"
      },
      {
        "name": "Predefined SASE App Logo Controller",
        "description": "Predefined SASE App Logo Controller"
      },
      {
        "name": "Private App Protection Controller",
        "description": "Private App Protection Controller"
      },
      {
        "name": "Publish History Controller",
        "description": "Publish History Controller"
      },
      {
        "name": "QoS Elements Controller",
        "description": "QoS Elements Controller"
      },
      {
        "name": "Region Controller",
        "description": "Region Controller"
      }
    ]
  }
}
```

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.

The screenshot shows the Swagger Editor interface. The left pane contains the OpenAPI 3.0 definition for the Swagger Petstore. The right pane displays the rendered Swagger UI, which includes a title 'Swagger Petstore - OpenAPI 3.0' with a version badge '1.0.11' and a label 'OAS3'. Below the title, there is a description of the API and a list of useful links.

Swagger Petstore - OpenAPI 3.0 1.0.11 OAS3

This is a sample Pet Store Server based on the OpenAPI 3.0 specification. You can find out more about Swagger at <https://swagger.io>. In the third iteration of the pet store, we've switched to the design first approach! You can now help us improve the API whether it's by making changes to the definition itself or to the code. That way, with time, we can improve the API in general, and expose some of the new features in OAS3.

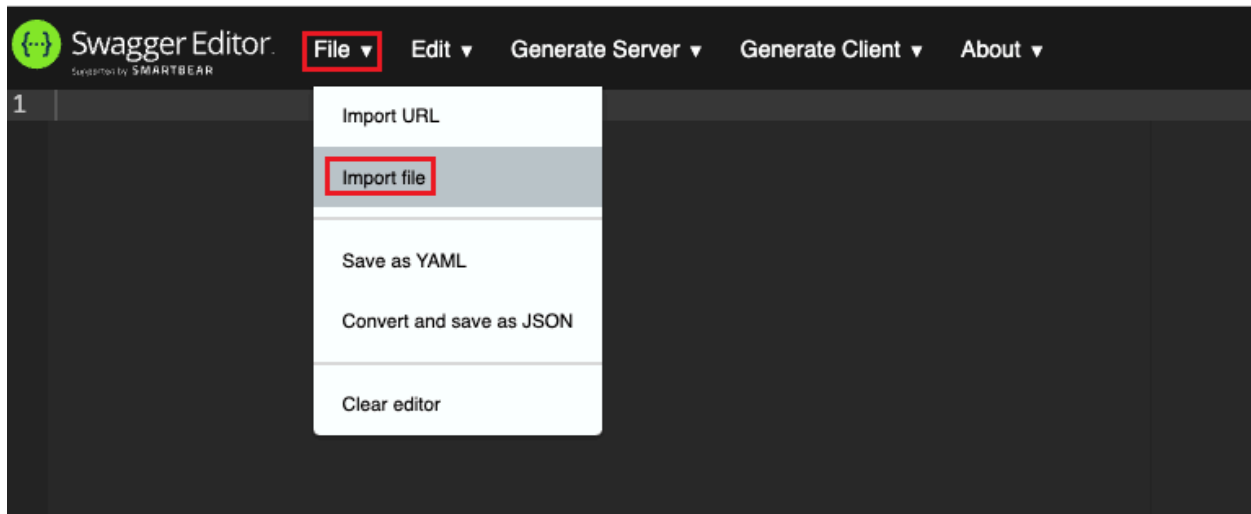
If you're looking for the Swagger 2.0/OAS 2.0 version of Petstore, then click [here](#). Alternatively, you can load via the [Edit > Load Petstore OAS 2.0](#) menu option!

Some useful links:

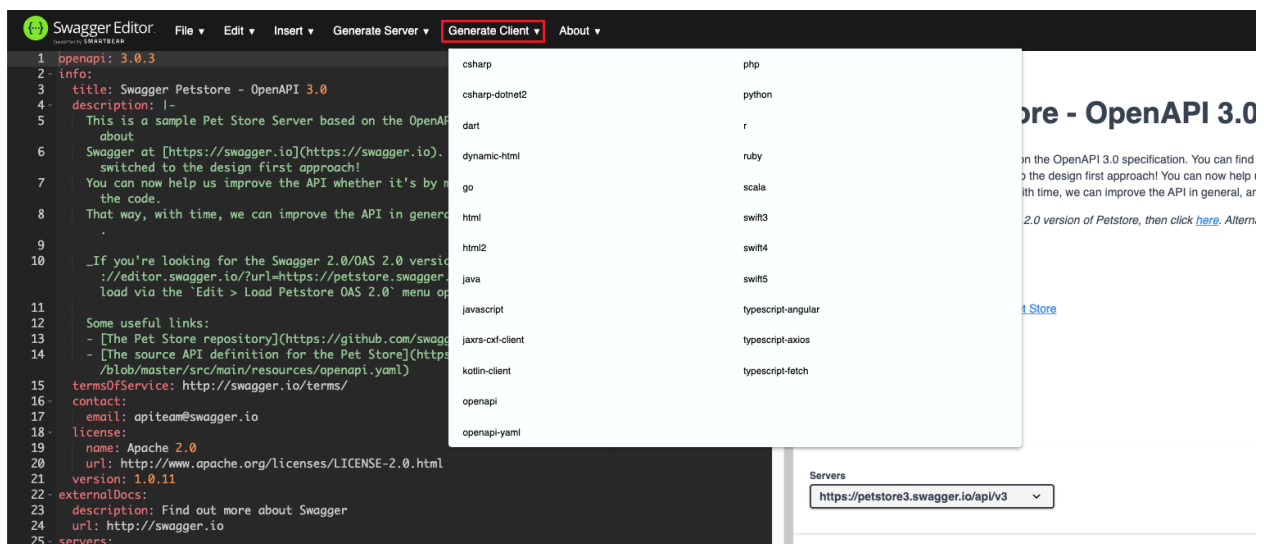
- [The Pet Store repository](#)
- [The source API definition for the Pet Store](#)

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 Apache 2.0
[Find out more about Swagger](#)

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.

Supported Software Information

Releases 11.1.1 and later support all content described in this article.

Additional Information

[Configure User Account Settings](#)

https://docs.versa-networks.com/Management_and_Orchestration/Versa_Concerto_Orchestrator/02_Common_Configuration/...

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