

# Omada OpenAPI Cookbook

OpenAPI has finally been supported on Omada Cloud Based Controller since v5.14.2. We have been waiting for this feature for a too long time. So today, I am going to share how to use Omada OpenAPI for starters.

## Purpose of this article:

1. introduce what is Omada OpenAPI
2. Explain how to use Omada OpenAPI with a step-by-step example.
3. Explain the difference between Omada OpenAPI and Web API

## What is Omada OpenAPI

Omada SDN controller provides working at MSP mode and normal mode. For MSP mode, you can create an OpenAPI application under MSP view, or under Customer View, it depends on your needs. For normal mode, you can add a new request, method choose POST, URL use <https://euw1-omada-northbound.tp-linkcloud.com/openapi/authorize/token>, the operations are similar.

Omada SDN provides two types of API authorization, Authorization code mode and Client mode. For more details about these two mode, you can check the Omada API [document](#). On our Cookbook, we will use Client mode for simplicity.

## Example of using Omada API.

Omada Controller supports working at MSP mode and normal mode. For MSP mode, you can create an OpenAPI application under MSP view, or under Customer View, it depends on your needs. For normal mode, you can add a new request, method choose POST, URL use <https://euw1-omada-northbound.tp-linkcloud.com/openapi/authorize/token>, the operations are similar.

- Note:**
1. On our example, we will use Omada Cloud Based Controller and MSP mode for illustration.
  2. some API interface may support only authorization code mode, for example /openapi/v1/msp(/mspld)/customers. For more details, please refer to the [OpenAPI document](#).

## Step 1. Create an OpenAPI Application

Login the Controller with Main Admin/Admin account. Go to MSP view - Settings - Platform Integration page and Click "Add New App". Choose Mode as "Client" and select MSP role Customer Privileges and Customer Role as you need.

tp-link

omada

Demo Hotel Cloud-MSP

MSP Mode

Organization: MSP View

System Settings

MSP Settings

Server Settings

Account Security

Platform Integration

Maintenance

Export Data

Add New App

App Name: mytest

Mode: Client

MSP Role: MSP Administrator

Customer Privileges: All (including all new-created Customer)

Customer Role: Administrator

Apply

Cancel

Open API

APPLICATION

CLIENT ID

CLIENT SECRET

MODE

ACTION

mytest

cc258c1d98a24218949dab58e997874b

0eed80275445451790046636

Client

Showing 1-1 of 1 records

10 / page

Go to page: Go

+ Add New App

Online API Document

After applying, you will see the Client ID, Client Secret.

Open API

View Open API Attributes

Interface Access Address : https://euw1-omada-northbound.tp-linkcloud.com

Omada ID : d7a2b74a3acaf62af37e3230d4865ae3

OK

And click the eye icon, you will see the interface access address and Omada ID. These information will be used for granting the API access.

View Open API Attributes

Interface Access Address : https://euw1-omada-northbound.tp-linkcloud.com

Omada ID : d7a2b74a3acaf62af37e3230d4865ae3

OK

## Step 2. Get the accessToken and refreshToken

To call the API, we will use Postman. You can use their online version or download the desktop application from their official [website](#).

to call the API, you need first get the accessToken and RefreshToken.

On Post Man, add a new request, method choose POST, URL use <https://euw1-omada-northbound.tp-linkcloud.com/openapi/authorize/token>.

Note: <https://euw1-omada-northbound.tp-linkcloud.com> is the interface access address you get from above step, and /openapi/authorize/token is the first API you need use.

Then add a Query Params, key is grant\_type, value is client\_credentials.

POST Login

Omada OpenAPI Test / Client Credentials Mode Access / Login

POST

https://euw1-omada-northbound.tp-linkcloud.com/openapi/authorize/token?grant\_type=client\_credentials

Send

Params

Authorization

Headers (8)

Body

Scripts

Tests

Settings

Cookies

Query Params

Key

Value

Description

grant\_type

client\_credentials

OK

On the Body, use Jason format, and add the following key: value pairs.

```
{
  "omadaId": "d7a2b74a3acaf62af37e3230d4865ae3",
  "clientId": "cc258c1d98a24218949dab58e997874b",
  "client_secret": "0eed8027544545179004663603c61fc4"
}
```

POST Login

Omada OpenAPI Test / Client Credentials Mode Access / Login

POST

https://euw1-omada-northbound.tp-linkcloud.com/openapi/authorize/token?grant\_type=client\_credentials

Send

Params

Authorization

Headers (8)

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Cookies

Body

JSON

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