

Note: ComAp cloud API v 1.1 are using the ComAp Cloud Identity and OAuth2 protocol for authentication.

Please see. <https://oauth.net/2/> for OAuth2 protocol documentation.

This Guide describes how to use APIS on developer portal. You can use API by your own apps too in machine to machine mode of course.

Note: If you are switching to API v 1.1 from API v1 is recommended to switch in short period as possible to avoid potential data loss. We recommend making one subaccount, where you can all configure and test. Then simply move units and switch.

How to use ComAp Cloud Identity in the ComAP cloud API's

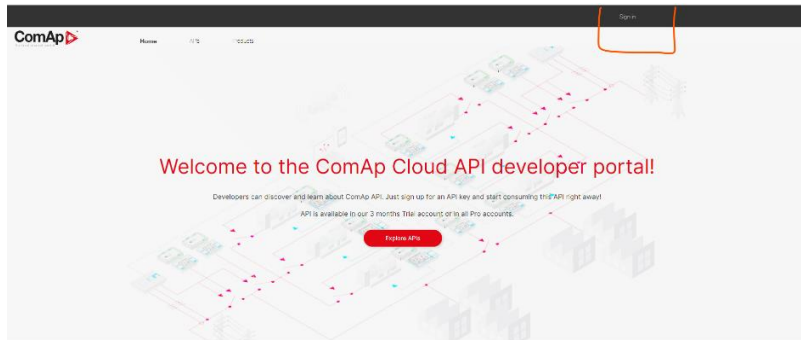
First, you must register the application and generate a secret. It's a one-time action, just the secret must be renewed before the end of the validation period.

Step 1

- Enroll Comap Cloud Identity if you don't have it yet. You can do it on the <https://www.comap-control.com>

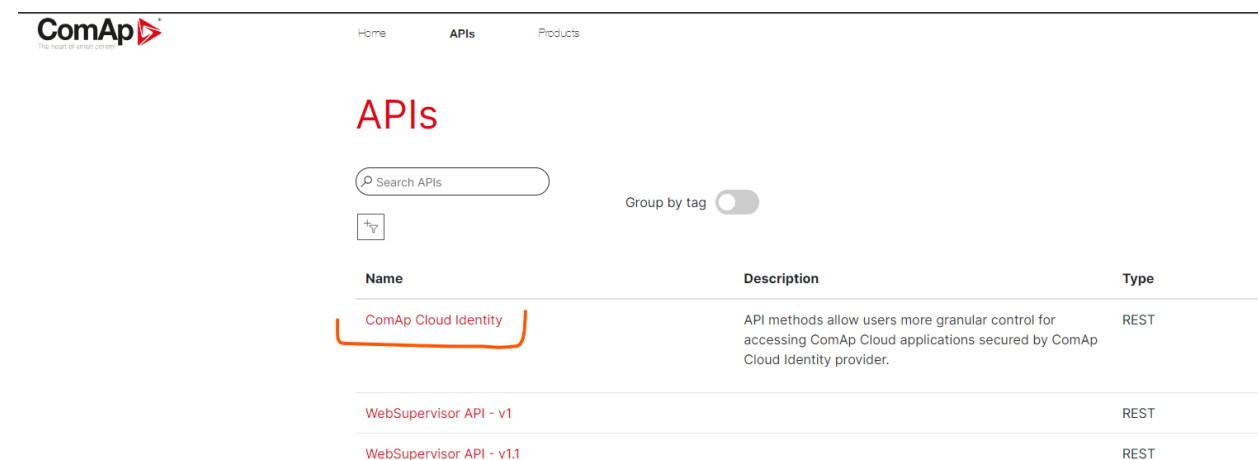
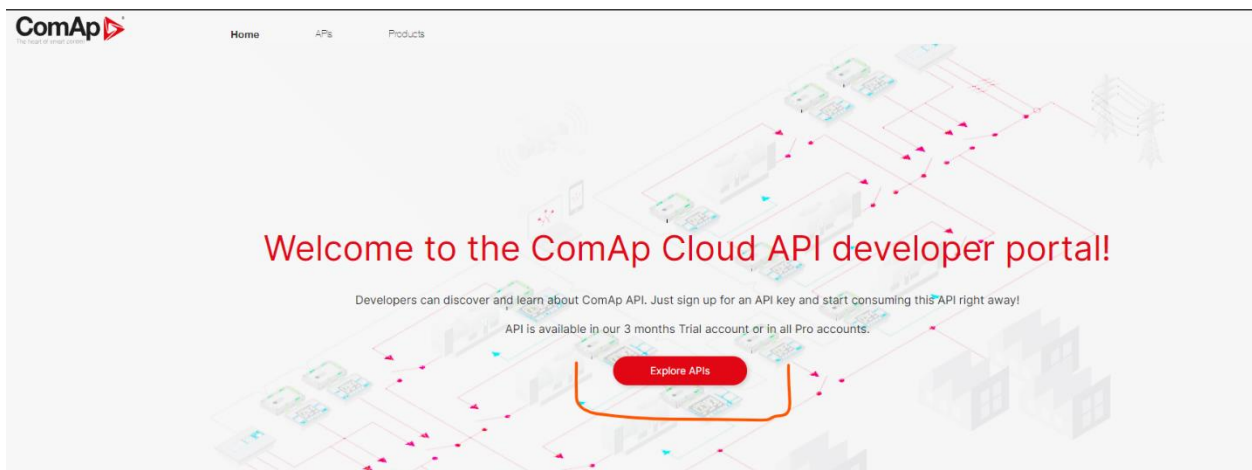
Step 2,

- Sign in to the <https://portal.comap.cloud>.



Step 3

- Navigate to the API section
- Then to ComAp Cloud Identity API



Step 4

Register application

Navigate to the “Create application registration” POST method and use “Try it” button

The screenshot shows the API console for 'ComAp Cloud Identity'. The 'Create application registration' endpoint is selected. The 'Try it' button is highlighted with an orange box. The response is '204 No Content'.

“ComAp Cloud Identity” value choose “Implicit” value. In the pop up please fill your ComAp Cloud Identity e-mail and login if you are prompted

Authorization values are filled automatically by MS Bearer token (work just for identity API, not possible to use this token for other APIs aka WSV etc.)

The screenshot shows the API console for 'ComAp Cloud Identity' with the 'Create application registration' endpoint selected. The 'Authorization flow' dropdown is set to 'implicit' and is highlighted with an orange box. The response is '204 No Content'.

Then click to “Sent” (roll down).

If you obtained “201” HTTP status code, your application was created.

Keep the “clientId” value for later usage.

HTTP response

HTTP/1.1 201 Created

```
cache-control: no-cache
content-length: 64
content-type: application/json
date: Thu, 07 Dec 2023 13:08:42 GMT
expires: -1
pragma: no-cache
strict-transport-security: max-age=31536000; includeSubDomains
x-ms-client-tracking-id: 08584996523678576243636693067CU144
x-ms-correlation-id: 6f6904e8-7011-4f40-8005-8b539b4efe1e
x-ms-execution-location: westeurope
x-ms-ratelimit-burst-remaining-workflow-writes: 1362
x-ms-ratelimit-remaining-workflow-download-contentsize: 97612736
x-ms-ratelimit-remaining-workflow-upload-contentsize: 97612748
x-ms-ratelimit-time-remaining-directapirequests: 4540855
x-ms-request-id: westeurope:6f6904e8-7011-4f40-8005-8b539b4efe1e
x-ms-tracking-id: 6f6904e8-7011-4f40-8005-8b539b4efe1e
x-ms-trigger-history-name: 08584996523678576243636693067CU144
x-ms-workflow-id: 130a943b110f4c5da41e4aced5849a4e
x-ms-workflow-name: AADB2C_CreateApplicationForIdentity_HTTP
x-ms-workflow-run-id: 08584996523678576243636693067CU144
x-ms-workflow-system-id: /locations/westeurope/scaleunits/prod-242/
workflows/130a943b110f4c5da41e4aced5849a4e
x-ms-workflow-version: 08585004291150883105
```

```
{
  "clientId": "09524261-e278-46df-bb86-781325127d15",
  "secrets": []
}
```

Send

Step 5

- Create secret
- Navigate to “Create application secret” POST method, and click on “Try it” button
- If you are logged in your Comap-Key Value are prefilled
- “ComAp Cloud Identity” value choose “Implicit” value. In the pop up please fill your ComAp Cloud Identity e-mail and log in if you are prompted
- Authorization value are filled automatically
- Fulfill the JSON in the Request body section:

```
{
  "clientId": < ---clientId from previous step--- >,
  "secret": {
    "displayName": "< ---your name of secret--- >",
    "duration": "2y"
```

The screenshot displays the API console interface for the 'Create application secret' endpoint. The 'Request' section is expanded to show the request body in JSON format:

```
application/json
SecretCreate
{ }
Name Required Type Description
clientId true uuid GUID of application
secret.displayName false string Optional secret display name
secret.duration true string Duration of secret
```

The 'Authorization' section shows the 'Authorization flow' set to 'Implicit'. The 'Body' section shows the raw request body:

```
{
  "clientId": "09524...bb8...",
  "secret": {
    "displayName": "string",
    "duration": "2y"
  }
}
```

Then click on „Sent“ button (roll down).

In the API response you obtain your secret. Maximum secret age period is 2 years

HTTP response

```

HTTP/1.1 200 OK

cache-control: no-cache
content-length: 184
content-type: application/json
date: Thu, 07 Dec 2023 13:20:18 GMT
expires: -1
pragma: no-cache
strict-transport-security: max-age=31536000; includeSubDomains
x-ms-client-tracking-id: 08584996516695310490830180384CU203
x-ms-correlation-id: f0d8d082-5dd1-4023-9173-a45683b26ac3
x-ms-execution-location: westeurope
x-ms-ratelimit-burst-remaining-workflow-writes: 1362
x-ms-ratelimit-remaining-workflow-download-contentsize: 97612616
x-ms-ratelimit-remaining-workflow-upload-contentsize: 97612614
x-ms-ratelimit-time-remaining-directapirequests: 4542011
x-ms-request-id: westeurope:f0d8d082-5dd1-4023-9173-a45683b26ac3
x-ms-tracking-id: f0d8d082-5dd1-4023-9173-a45683b26ac3
x-ms-trigger-history-name: 08584996516695310490830180384CU203
x-ms-workflow-id: bec056c5ddc04490a749a2745cb23832
x-ms-workflow-name: AADB2C_CreateSecretForApplication_HTTP
x-ms-workflow-run-id: 08584996516695310490830180384CU203
x-ms-workflow-system-id: /locations/westeurope/scaleunits/prod-48/workflows/bec056c5ddc04490a749a2745cb23832
x-ms-workflow-version: 08585004290710517867

{
  "displayName": "string",
  "endDateTime": "2025-12-07T13:20:18.0697981Z",
  "hint": ".En",
  "secret": ".En8Q[REDACTED]",
  "secretId": "9acd68c[REDACTED]"
}

```

Send

Keep “secret” value for later usage.

Step 6

- Obtain Bearer token
- Navigate to “Authenticate” GET method
- “Try it” button
- If you are logged in your Comap-Key Value are prefilled
- Fulfill the JSON in the Request body section:

```
{
```

"clientId": "< ---clientID from previous steps--- >",

"secret": "< ---secret from previous steps--- >"

}

- Then click to "Sent" button

Note: ComAp Cloud Identity value is not necessary to fill.

In the response you obtain JSON

```
{ "token_type": "Bearer", //Type of token
"expires_in": 3599, // expiration period default is 1 hour
"ext_expires_in": 3599, // expiration period default is 1 hour
"access_token": " *****
*****
*****
***** " //Token value
```


Note: Now you have all to use API version 1.1 navigate to APIS → v 1.1 Choose the method which you like to use and fill “Authorization” by Bearer token in this format :

“Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImtpZCI6Ii1LSTNRROW5OUjdiUm9m*****”