

# Grandstream Networks, Inc.

**GDMS API – Guide** 



# Curl

# Generate the Token

1. Get the login password to hash as MD5 you can use https://emn178.github.io/online-tools/md5.html

2. The result of the MD5 hash it as SHA256 you can use https://emn178.github.io/online-tools/sha256.html

3. On the GDMS Web UI  $\rightarrow$  Others  $\rightarrow$  API developer  $\rightarrow$  Activate : Get the API Developer info

API Developer Info
API ID
Secret Key

curl -sik -d 'username=[GDMS Username]&password=[(*Password*)]&grant\_type=password&client\_id=[API\_ID]&client\_secret=[Secret\_Key]' -header 'Accept: application/json' -header 'Content-type: application/x-www-form-urlencoded' -X POST https://www.gdms.cloud/oapi/oauth/token

um

Response: (Your responses will be different from those below)

#### TOKEN (token):

13dac871-38c2-4261-a698-6481840617cc

#### REFRESH TOKEN (rtoken):

```
15fac8ef-d15f-4cec-9128-e6f55005cba4
```

#### Use refresh token each hour

curl -sik -d 'grant\_type=refresh\_token&refresh\_token=**rtoken**&client\_id=**API\_ID**&client\_secret=**Secret\_Key**' -header 'Accept: application/json' -header 'Content-type: application/x-www-form-urlencoded' -X POST https://www.gdms.cloud/oapi/oauth/token

#### Timestamp

You will need to create a timestamp in milliseconds as Epoch time, you can use https://www.epochconverter.com/

May look like this: (tstamp): 1622241631000

#### Signature for organization:

- 1. Create your sentence like this : &access\_token=token&client\_id=API\_ID&client\_secret=Secret\_Key&timestamp=tstamp& Note: The & has to be included.
- 2. The result has to be hash as SHA256, tool: https://emn178.github.io/online-tools/sha256.html
- 3. The result obtained is the (signature)

# Get a list of your organizations from the API

- 1. On your Web browser enter the following URL adjusting your credentials:
- 2. https://www.gdms.cloud/oapi/v1.0.0/org/list?access\_token=token&signature=signature&timestamp=tstamp

3. The response receive will look like: (orgid)

{"data":{"result":

[{"id":1136,"organization":"Default","description":"","isDefault":1,"createTime":1567221861000}],"total":1,"pages":1,"pageSize":20,"pageNum":1},"msg":"","retCode":0}

#### Get a list of your sites from the API

- 1. On your Web browser enter the following URL adjusting your credentials:
- $2.\ https://www.gdms.cloud/oapi/v1.0.0/site/list?access_token= token \& signature= signature \& timestamp= tstamp = token & signature & timestamp = tstamp & timestamp = tstamp & timestamp & timestam$
- 3. The response receive will look like: (siteid)
  - {"data":{"result":[{"id":3345,"isDefault":1,"description":"Default Site","siteName":"Default","children":[]}]},"msg":"","retCode":0}

#### Add a device

- 1. Full this sentence with your details: [{"deviceName":"device\_name","mac":"XY:XY:XY:XY:XY:XY:XY","sn":"YOURSN","siteId":3345,"orgId":1136}] Note: the [], {}, "", has to be included and the MAC address should be formatted as XY:XY:XY:XY:XY:XY:XY:XY
- 2. The result has to be hash as SHA256, you can use
  - https://emn178.github.io/online-tools/sha256.html (device\_hash)
- Construct the following sentence: &access\_token=token&client\_id=API\_ID&client\_secret=Secret\_Key&timestamp=tstamp&device\_hash& Note: The & has to be included.
- 4. The result has to be hash as SHA256, tool: https://emn178.github.io/online-tools/sha256.html
- 5. The structure to construct is:

curl -sik -d '[{"deviceName":"device\_name","mac":"XY:XY:XY:XY:XY:XY","sn":"YOURSN","siteId":3345,"orgId":1136}]' -header 'Accept: application/json' -header 'Content-type: application/json' -X POST 'https://www.gdms.cloud/oapi/v1.0.0/device/add?access\_token=token&signature&timestamp=tstamp'

6. The curl command would look like:

'https://www.gdms.cloud/oapi/v1.0.0/device/add?access\_token=6f1cf2db-3f96-4a20-ad76fc49cf003149&signature=b6908e2cd6565112554fbd1587402496857c7b56818647b273623915bf248c35&timestamp=1621958396000'

#### Add a task

1. Fill this sentence with your details:

'{"taskName":"REBOOT","taskType":1,"macList":[" XY:XY:XY:XY:XY","],"execType":1}'

- Note: the [], {}, "", has to be included and the MAC address should be formatted as XY:XY:XY:XY:XY:XY
- 2. The result has to be hash as SHA256, you can use https://emn178.github.io/online-tools/sha256.html (task\_hash)
- 3. Construct the following sentence: &access\_token=token&client\_id=API\_ID&client\_secret=Secret\_Key&timestamp=tstamp&task\_hash& Note: The & has to be included.
- 4. The result has to be hash as SHA256, you can use https://emn178.github.io/online-tools/sha256.html

5. The curl command would be similar :

curl -sik -d "{"taskName":"REBOOT","taskType":1,"macList":["XY:XY:XY:XY:XY"],"execType":1)' -header 'Accept: application/json' -header 'Content-type: application/json' -X POST 'https://www.gdms.cloud/oapi/v1.0.0/task/add?access\_token=**token**&signature=**signature**&timestamp=**tstamp**' Would look something like this:

'https://www.gdms.cloud/oapi/v1.0.0/device/add?access\_token=6f1cf2db-3f96-4a20-ad76fc49cf003149&signature=b6908e2cd6565112554fbd1587402496857c7b56818647b273623915bf248c35&timestamp=1621958396000'

# Postman

Using the GDMS API collection, On the GDMS Web UI  $\rightarrow$  Others  $\rightarrow$  API developer  $\rightarrow$  Activate : Get the API Developer info

# Open the Postman app

- 1. Import collection as file
- 2. Check the Environmental Variables and enter your credentials on CURRENT VALUE.
- 3. Should be fill as:
  - Username: GDMS username
  - Password: GDMS Login password
  - Client\_secret: GDMS API Client Secret
  - Client\_ID: GDMS Client ID

				Q search Po	Itman	영 <sup>3</sup> 1ⓒ3 Sign In Create Account —	0
cratch Pad		New Import	GDMS API Collection POST Access Token	GET Get Sites ID POST Add a Dev	+	No Environment	~
	+ =		GDMS API Collection			◆ Watch 0 V Fork • Run 🗒 Save 🖉 Share	
0	GDMS API Collection		Authorization Pre-request Script   Tests	Variables			
d'b APIs	OET Get Organizations ID		These variables are specific to this collection and i	its requests. Learn more about collection variables. P			
Ξ.	OET Get Sites ID	***	VARIABLE	INITIAL VALUE	CURRENT VALUE ①	*** Persist All Res	et All
ricomenta	POST Add a Device		username				
	POST Create a Task		psswd				
k Servers	<ul> <li>GDMS Collection</li> </ul>		client_id				
4	GRANDSTREAM - UCM - API     Grandistream LICM - API		client_secret				
ontors	GWN Cloud		Add a new variable				

# Access Token request

After entering the credentials can SEND the POST Access token request.

If the credentials are correct you will get the response in JSON as the image below



# Get Organizations ID

After the Access token request is run the Get Organizations ID request could be sent, the postman will carry on the variables needed

The response would be similar to this:



Take note about the organization ID, in this case, it is <u>13916</u> but according to new credentials will vary.

# Get sites ID

Then the "Get Organizations ID" request can be run, the postman will carry on the variables needed.

The response received will look similar to this, depending on the site



Take note about the Site ID, in this case is <u>54010</u> but according to new credentials will vary.

# Add Device

On the Postman UI  $\rightarrow$  Add a Device request  $\rightarrow$  Pre-request Script

The values highlighted has to be replaced with the actual data.

GET Access Token GET Get Organizations ID GET Get Sites ID	POST Add a Device	POST Reboot Device	GDMS API ENV	+ ***	GDMS API ENV	~ ©
GDMS API / Add a Device					🖺 Save 🗸 🚥 🥖 🗄	E
POST v https://www.gdms.cloud/oapi/v1.0.0/device/add?access_token*((ac	cess_token}}&signature= <mark>{{si</mark>	gnatureforadd}}&timestamp={	(currentDate))		Send	v e
Params  Authorization Headers (9) Body  Pre-request Script Test	s Settings				Cool	kies 🗸
1 /* Variables */ 2 const add = [[[deviceMane": GMP2612], "mac": Wrank Wink Wink Wink Wink Wink Wink Wink Wi						
6 lesnonse					Bet an environment variable	-
	- CB	ck Send to get a response				

A successful response will look like this:



# Add a task

As an example, the reboot task could be created, on the Add a task request  $\rightarrow$  Pre-request Script

The field highlighted need to be replaced with the actual data.

Out
Send V
Cookie
Pre-request scripts are written in JavaScript, and are run before the request is sent.

#### A successful response will look like this:

GDMS AP	/ Create a Task	🖺 Save 🗸 🚥 🖉 🗐
POST	https://www.gdms.cloud/oapi/v1.0.0/task/add?access_token={(access_token)}8signature={(signatureforadd)}8timestamp={(currentDate)}	Send v
Params 🔵	Authorization Headers (9) Body   Pre-request Script  Tests Settings	Cookies
Body Coo	kies Headers (16) Test Results	😤 Status: 200 OK Time: 169 ms Size: 905 B Save Response 🗸
Pretty	Raw Preview Visualize JSON V	<b>■</b> Q
1 9 2 3 4 5 6 7 8 9 10 11 12 13 11 12 13 14 15 16 16	<pre>"duta": {     "taskld": 747166,     "orgId": 13916,     "orgId": 13916,     "taskld": 10EBOOT,     "tasklow: 10EBOOT,     "tasklow:</pre>	T
17	"retCode": 0	1

# Apply for API Developer

GDMS platform opens API interfaces for public users. Users can apply for API Developer to use the services. Users can click to view the details about API interfaces.

1. Click on "API Developer" on the menu on the left side and click to apply for API Developer.

🕼 GDMS	🧬 Grandstream 🗸
⑦ Dashboard	API Developer
& Organization	Enterprises can enable API Developer Mode to invoke various GDMS features via API in third-party applications. API interfaces include but are not limited to: querying device lists, assigning account numbers to devices, configuring devices, viewing device status and details, creating/deteing/updating accounts and SIP servers, etc. View details
all Overview	Enable API Developer Mode
Device ·	
EB Site	
🗐 Task	
8 System	
🖾 API Developer	
	Copyright 8 2019 Grandstmann Networks, Inc. All Barris Reserved Copyright 9 2019 Grandstmann Networks, Inc. All Barris Reserved Copyright 9 2019 Grandstmann Networks, Inc. All Barris Reserved Copyright 9 2019 Grandstmann Networks, Inc. All Barris Reserved Copyright 9 2019 Grandstmann Networks, Inc. All Barris Reserved Copyright 9 2019 Grandstmann Networks, Inc. All Barris Reserved Copyright 9 2019 Grandstmann Networks, Inc. All Barris Reserved Copyright 9 2019 Grandstmann Networks, Inc. All Barris Reserved Copyright 9 2019 Grandstmann Networks, Inc. All Barris Reserved Copyright 9 2019 Grandstmann Networks, Inc. All Barris Reserved Copyright 9 2019 Grandstmann Networks, Inc. All Barris Reserved Copyright 9 2019 Grandstmann Networks, Inc. All Barris Reserved Copyright 9 2019 Grandstmann Networks, Inc. All Barris Reserved Copyright 9 2019 Grandstmann Networks, Inc. All Barris Reserved Copyright 9 2019 Grandstmann Networks, Inc. All Barris Reserved Copyright 9 2019 Grandstmann Networks, Inc. All Barris Reserved Processing 9 2019 Grandstmann Networks, Inc. All Barris Reserved Processing 9 2019 Grandstmann Networks, Inc. All Barris Reserved Processing 9 2019 Grandstmann Networks, Inc. All Barris Reserved Processing 9 2019 Grandstmann Networks, Inc. All Barris Reserved Processing 9 2019 Grandstmann Networks, Inc. All Barris Reserved Processing 9 2019 Grandstmann Networks, Inc. All Barris Reserved Processing 9 2019 Grandstmann Networks, Inc. All Barris Reserved Processing 9 2019 Grandstmann Networks, Inc. All Barris Reserved Processing 9 2019 Grandstmann Networks, Inc. All Barris Reserved Processing 9 2019 Grandstmann Networks, Inc. All Barris Reserved Processing 9 2019 Grandstmann Networks, Inc. All Barris Reserved Processing 9 2019 Grandstmann Networks, Inc. All Barris Reserved Proces

2. Click on "Apply for API Developer", the GDMS platform will assign the API Client ID and secret key to the GDMS account, and the GDMS account can use the API Client ID and secret key to invoke the API interfaces.

API Developer	
Enterprises can enable API Developer Mode to invoke various GDMS features via API in third-party applications. API interfaces include but are not limited to: querying device lists, assigning account numbers devices, viewing device status and details, creating/deting/updating accounts and SIP servers, etc. View more details	to devices, configuring
API Developer Mode Enabled	
• API Developer Info	
API ID 100017	
Secret Key hbFhDFBGyUSN8RMPku4PL4x44MM2CUAS	
Disable API Developer Mode	

3. If the user wants to disable API Developer feature, the user can click on "Disable API Developer" to stop invoking the API interfaces.

1. Call API Address:

The API Address is: https://{gdms\_domain}/oapi/xxx.

- If your GDMS account is in US region, the {gdms\_domain} can be filled with www.gdms.cloud.
- If your GDMS account is in EU region, the {gdms\_domain} can be filled with eu.gdms.cloud.

2. When the API Developer is disabled, the previous API secret key will be invalid, the user cannot invoke the GDMS interfaces. If the user tries to re-apply for the API Developer feature, the system will assign another secret key to the GDMS account.