

API for VolaCloud Platform V1.7

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V1.3	1.Modified Service URL	Kerwin
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V1.6	1.Modify 2.7 provision API 2.Add 2.8 Associate the Provisioning File with the Device API	Kerwin
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1.Introduction

1. The URL for Service Access

<https://cloudapi.volanetworks.net>

When accessing the server interface or the device interface, you need to add this URL before the request URL.

For example, when adding the server interface:

Request URL:

POST: [/user-mgmt-api/get-access-token](#)

POST indicates that the request method is POST. When the request URL is [/user-mgmt-api/get-access-token](#), you need to add <https://cloudapi.volanetworks.net> before it, so the complete access URL to the interface is <https://cloudapi.volanetworks.net/user-mgmt-api/get-access-token>

This rule is also applicable to other interfaces.

Note:

If MFA is enabled, the legacy token retrieval method will no longer work. You must register via AWS Cognito and use the resulting credentials for API operations. (Note: Accounts created via Cognito are restricted to programmatic access only and cannot log in via the Web-GUI.) For security purposes, if you intend to use Cognito for API access, please contact technical support with your public IP address, and we will add it to the allowlist.

AWS Cognito initially trusts the device and IP address used for the first login. Therefore, your first access should work normally. However, if you encounter issues retrieving AccessTokens in subsequent requests, please contact us.

2. Basic Introduction

1.2.1. Body and Body Parameter

In this document, Body refers to the HTTPS request body and Body Parameter means you need to add the request parameters to the Body of HTTPS request.

Note:

For the Body parameter specified in this document, the Content-Type of the HTTPS request header needs to be specified as **application/json; charset=UTF-8**, that is, the data format is json.

3. https

The API load certificates with openssl tls.

4. Request Data Structure

The form of the request data uses JSON encoded by UTF-8.

Example Request:

```
{  
  "email": "test@flyingvoice.com",  
  "password": "password"  
}
```

5. Authentication method

Please use your login account for “email” and “password”, and the HTTPS response will return a token value after logging in, which you need to carry in subsequent API requests

6. Returned Data Structure

The form of the returned data uses JSON encoded by UTF-8. The structure of the returned data is unified as follows:

```
{  
  "code": 200,  
  "status": "Get access token succeed",  
  "accessToken": "token value"  
}
```

Code : the result code.

Status : the requests results return a description.

accessToken: the token value returned after successful login.

2. Supported API operations

2.1 GetAccessToken API

2.2.1 Login And GetAccessToken API

Request URL:

POST: /user-mgmt-api/get-access-token

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
email	String	Yes	Login username

password	String	Yes	Login password
----------	--------	-----	----------------

Example Request:

```
{
  "email": "test@flyingvoice.com",
  "password": "http://www.server.com"
}
```

Example of Successful Response:

```
{
  "code": 200,
  "status": "Get access token succeed",
  "accessToken": "token value"
}
```

Note: Tokens are valid for 24 hours

2.2.1 Use Cognito Login GetAccessToken API(Disabled MFA)

Request URL:

The URL for Service Access: <https://cognito-idp.us-east-1.amazonaws.com/>

Note: Before MFA is enabled, you can use the account already registered in the foreground to log in via API.

Header Parameter:

Key	Value
Content-Type	application/x-amz-json-1.1
X-Amz-Target	AWSCognitoIdentityProviderService.InitiateAuth

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
AuthFlow	String	Yes	USER_PASSWORD_AUTH
ClientId	String	Yes	5tuvh28erhrieig914vkd7lc9j
AuthParameters	Dict	Yes	Include the USERNAME and PASSWORD in the requests

Example Request:

```
{
  "AuthFlow": "USER_PASSWORD_AUTH",
  "ClientId": "5tuvh28erhrieig914vkd7lc9j",
  "AuthParameters": {
    "USERNAME": "KerwinC@volanetworks.com", //login username
    "PASSWORD": "password" //login password
  }
}
```

Example of Successful Response:

```
{
  "AuthenticationResult": {
    "AccessToken": "Your accesstoken info",
    "ExpiresIn": 86400,
    "IdToken": "Your idtoken info",
    "RefreshToken": "Your Refreshtoken info",
    "TokenType": "Bearer"
  },
  "ChallengeParameters": {}
}
```

Note: You can choose to obtain AccessToken using either of the above methods

2.2. Device Basic Operation API

2.2.1 Send Password To Device

Request URL:

POST: /org-mgmt-api/device-basic-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
deviceIndex	String	Yes	Device SN or MAC
deviceModel	String	Yes	Device model
token	String	Yes	Access_token value
targetOrgId	String	Yes	OrgID
operation	String	Yes	Operation type

Example Request:

```
{
  "deviceIndex": "VOLA17124600110", //mac format(aa:bb:cc:dd:ee:ff)
  "deviceModel": "PR12",
  "token": "xxx",
  "targetOrgId": "xxx",
  "operation": "add"
}
```

Example of Response:

```
{
  "code": "200",
  "status": "Device operation add succeed"
}
```

2.2.2 Confirm Add Device

Request URL:

POST: /org-mgmt-api/device-basic-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
deviceIndex	String	Yes	Device SN or MAC
deviceModel	String	Yes	Device model
connectPassword	String	Yes	random password
description	String	No	Device description
token	String	Yes	Access_token value
targetOrgId	String	Yes	OrgID
operation	String	Yes	Operation type

Example Request:

```
{
  "deviceIndex": " VOLA17124600110 ", //mac format(aa:bb:cc:dd:ee:ff)
  "deviceModel": "PR12",
  "connectPassword": "257253",
  "description": "KerwinTest",
  "token": "xxx",
  "targetOrgId": "xxx",
}
```

```

"operation": "addConfirm"
}
    
```

Example of Response:

```

{
  "code": "200",
  "status": "Device operation addConfirm succeed"
}
    
```

2.2.3 Delete Device

Request URL:

POST: /org-mgmt-api/device-basic-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	Token
deviceIndex	String	Yes	Device SN or MAC
operation	String	Yes	Operation type

Example Request:

```

{
  "token": "xxx",
  "deviceIndex": "VOLA00225300021", //mac format(aa:bb:cc:dd:ee:ff)
  "operation": "delete"
}
    
```

Example of Response:

```

{
  "code": "200",
  "status": "Device operation delete succeed"
}
    
```

2.2.4 Update Device Usage Status To In Use

Request URL:

POST: /org-mgmt-api/device-basic-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
-----------	------	-----------	-------------

token	String	Yes	Token
deviceIndex	String	Yes	Device SN or MAC
operation	String	Yes	Operation type
usageStatus	String	Yes	Device usage status:InUse or inventory

Example Request:

```
{
  "token": "xxx",
  "deviceIndex": "VOLA00225300021", //mac format(aa:bb:cc:dd:ee:ff)
  "operation": "updateInfo",
  "usageStatus": "inUse"
}
```

Example of Response:

```
{
  "code": "200",
  "status": "Device operation updateInfo succeed"
}
```

2.2.5 Update Device Usage Status To In Inventory

Request URL:

POST: /org-mgmt-api/device-basic-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	Token
deviceIndex	String	Yes	Device SN or MAC
operation	String	Yes	Operation type
usageStatus	String	Yes	Device usage status:InUse or inventory

Example Request:

```
{
  "token": "xxx",
  "deviceIndex": "VOLA00225300021", //mac format(aa:bb:cc:dd:ee:ff)
}
```

```

"operation": "updateInfo",
"usageStatus": "inventory"
}
    
```

Example of Response:

```

{
  "code": "200",
  "status": "Device operation updateInfo succeed"
}
    
```

2.2.6 Update Device Description

Request URL:

POST: /org-mgmt-api/device-basic-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	Token
deviceIndex	String	Yes	Device SN or MAC
operation	String	Yes	Operation type
description	String	Yes	Device description

Example Request:

```

{
  "token": "xxx",
  "deviceIndex": "VOLA00225300021", //mac format(aa:bb:cc:dd:ee:ff)
  "operation": "updateInfo",
  "description": "1234"
}
    
```

Example of Response:

```

{
  "code": "200",
  "status": "Device operation updateInfo succeed"
}
    
```

2.2.7 Obtain Device Information

Request URL:

POST: /org-mgmt-api/device-basic-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	Token
deviceIndex	String	Yes	Device SN or MAC
operation	String	Yes	Operation type

Example Request:

```
{
  "token": "xxx",
  "deviceIndex": "VOLA00225300021", //mac format(aa:bb:cc:dd:ee:ff)
  "operation": "getInfo"
}
```

Example of Response:

```
{
  "code": "200",
  "status": "Device operation getInfo succeed",
  "deviceInfo": {
    "deviceId": "501365-PR12-VOLA00225300021",
    "deviceMAC": "501365007225",
    "deviceModel": "PR12",
    "deviceSN": "VOLA00225300021",
    "description": "1234",
    "usageStatus": "inUse"
  }
}
```

2.2.8 Obtain Complete Device Node

Request URL:

POST: /org-mgmt-api/device-basic-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	Token
deviceIndex	String	Yes	Device SN or MAC

operation	String	Yes	Operation type
-----------	--------	-----	----------------

Example Request:

```
{
  "token": "xxx",
  "deviceIndex": "VOLA00225300021", //mac format(aa:bb:cc:dd:ee:ff)
  "operation": "getFullNode"
}
```

Example of Response:

```
{
  "code": "200",
  "status": "Device operation getFullNode succeed",
  "data": {
    "Device": {
      ...//Details omitted for brevity
    }
    "_lastInform": "2025-11-24T03:11:23.949Z",
    "_lastBoot": "2025-11-21T10:17:08.922Z",
    "_lastBootstrap": "2025-11-21T07:25:10.427Z",
    "_deviceId": {
      "_Manufacturer": "Vola Networks",
      "_OUI": "501365",
      "_ProductClass": "PR12",
      "_SerialNumber": "VOLA00225400179"
    }
  }
}
```

2.2.9 Obtain Partial Device Node

Request URL:

POST: /org-mgmt-api/device-basic-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
Token	String	Yes	Token
deviceIndex	String	Yes	Device SN or MAC
operation	String	Yes	Operation type

nodeArray	String	Yes	node parameters
-----------	--------	-----	-----------------

Example Request:

```
{
  "token": "xxx",
  "deviceIndex": "VOLA00225300021", //mac format(aa:bb:cc:dd:ee:ff)
  "operation": "getPartNode",
  "nodeArray": [
    "Device.DeviceInfo",
    "Device.Services"
  ]
}
//Support queries with or without private tags
```

Example of Response:

```
{
  "code": "200",
  "status": "Device operation getPartNode succeed",
  "data": {
    "Device": {
      ...//Details omitted for brevity
    },
    "_lastInform": "2025-11-24T03:24:10.819Z",
    "_lastBoot": "2025-11-21T10:17:08.922Z",
    "_lastBootstrap": "2025-11-21T07:25:10.427Z",
    "_deviceId": {
      "_Manufacturer": "Vola Networks",
      "_OUI": "501365",
      "_ProductClass": "PR12",
      "_SerialNumber": "VOLA00225400179"
    }
  },
  "notFoundNodes": []
}
```

2.2.10 Obtain Device Traffic Statistics

Request URL:

POST: /org-mgmt-api/device-basic-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
Token	String	Yes	Token

deviceIndex	String	Yes	Device SN or MAC
operation	String	Yes	Operation type
time	String	Yes	yyyy-MM-dd or yyyy-MM

Example Request:

```
{
  "operation": "getTraffic",    //
  "deviceIndex": " VOLA00225400015",    // mac or sn
  "time": "2026-06-24",    //yyyy-MM-dd(2026-06-24) or yyyy-MM(2026-06)
  "token": "xxx"
}
```

Example of Response:

```
{
  "code": "200",
  "status": "Get traffic success",
  "data": {
    "SIM1": {
      "upload": 20154,
      "download": 24166,
      "total": 44320
    },
    "SIM2": {
      "upload": 0,
      "download": 0,
      "total": 0
    },
    "SIM3": {
      "upload": 0,
      "download": 0,
      "total": 0
    },
    "SIM4": {
      "upload": 0,
      "download": 0,
      "total": 0
    },
    "total": 44320
  }
}
```

2.2.11 Reset Device Traffic Statistics

Request URL:

POST: /org-mgmt-api/device-basic-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
Token	String	Yes	Token
deviceIndex	String	Yes	Device SN or MAC
operation	String	Yes	Operation type
SIM	String	Yes	SIM1/SIM2/SIM3/SIM4

Example Request:

```
{
  "operation": "resetTraffic",
  "deviceIndex": "VOLA00225400015",
  "SIM": "SIM1",
  "token": "xxx"
}
```

Example of Response:

```
{
  "code": "200",
  "status": "Reset traffic success"
}
```

Note: This reset action only clears CPE traffic statistics and does not affect volacloud's total traffic statistics

2.3 Device Task Operation API

2.3.1 Create a Node Get Task

Request URL:

POST:/org-mgmt-api/device-task-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	token
deviceIndex	String	Yes	Device SN or MAC

parameterBody	Dict	Yes	Action type and node parameters
name	String	Yes	getParameterValues
parameterNames	List	Yes	Supports queries across multiple nodes
connectionRequest	boolean	Yes	True or False True: Task issued immediately False: Follow the inform to take effect
operation	String	Yes	Operation type

Example Request:

```
{
  "token": "xxx",
  "deviceIndex": "SN/MAC", //mac format(aa:bb:cc:dd:ee:ff)
  "parameterBody": {
    "name": "getParameterValues",
    "parameterNames": ["Device.DeviceInfo", "Device.Services"]
  },
  "connectionRequest": true,
  "operation": "createTask"
}
```

Example of Response:

```
{
  "code": "200",
  "taskId": "xxxx",
  "status": "create device param task succeed"
}
```

2.3.2 Create a Node Set Task

Request URL:

POST:/org-mgmt-api/device-task-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	token

deviceIndex	String	Yes	Device SN or MAC
parameterBody	Dict	Yes	Action type and node parameters
name	String	Yes	setParameterValues
parameterNames	List	Yes	Supports queries across multiple nodes
connectionRequest	boolean	Yes	True or False True: Task issued immediately False: Follow the inform to take effect
operation	String	Yes	Operation type

Example Request:

```

{
  "token": "xxx",
  "deviceIndex": "SN/MAC", // mac format(aa:bb:cc:dd:ee:ff)
  "parameterBody": {
    "name": "setParameterValues",
    "parameterValues": [
      [
        "Device.Services.VoiceService.1.SIP.Network.1.ProxyServer",
        "192.168.50.22"
      ],
      [
        "Device.Services.VoiceService.1.SIP.Network.1.ProxyServerPort",
        "5062"
      ]
    ]
  },
  "connectionRequest": true, // Whether the task needs to be immediately dispatched
  "operation": "createTask" // Operation name, indicating that the current operation is to create a task
}
    
```

Example of Response:

```

{
  "code": "200",
  "taskId": "xxxx",
  "status": "create device param task succeed"
}
    
```

2.3.3 Create a Node Reboot Task

Request URL:

POST:/org-mgmt-api/device-task-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	token
deviceIndex	String	Yes	Device SN or MAC
parameterBody	Dict	Yes	Action type
name	String	Yes	reboot
connectionRequest	boolean	Yes	True or False True: Task issued immediately False: Follow the inform to take effect
operation	String	Yes	Operation type

Example Request:

```
{
  "token": "xxx",
  "deviceIndex": "SN/MAC", // mac format(aa:bb:cc:dd:ee:ff)
  "parameterBody": {
    "name": "reboot"
  },
  "connectionRequest": true, // Whether the task needs to be immediately dispatched
  "operation": "createTask" // Operation name, indicating that the current operation is to create a task
}
```

Example of Response:

```
{
  "code": "200",
  "taskId": "xxx",
  "status": "create device param task succeed"
}
```

2.3.4 Create a Node FactoryReset Task

Request URL:

POST:/org-mgmt-api/device-task-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	token
deviceIndex	String	Yes	Device SN or MAC
parameterBody	Dict	Yes	Action type
name	String	Yes	factoryReset
connectionRequest	boolean	Yes	True or False True: Task issued immediately False: Follow the inform to take effect
operation	String	Yes	Operation type

Example Request:

```
{
  "token": "xxx",
  "deviceIndex": "SN/MAC", // mac format(aa:bb:cc:dd:ee:ff)
  "parameterBody": {
    "name": "factoryReset",
  },
  "connectionRequest": true, // Whether the task needs to be immediately dispatched
  "operation": "createTask" // Operation name, indicating that the current operation is to create a task
}
```

Example of Response:

```
{
  "code": "200",
  "taskId": "xxx",
  "status": "create device param task succeed"
}
```

2.3.5 Create a Node Upgrade Task

Request URL:

POST:/org-mgmt-api/device-task-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	token
deviceIndex	String	Yes	Device SN or MAC
parameterBody	Dict	Yes	Action type
name	String	Yes	factoryReset
fileName	String	Yes	Firmware name in volacloud firmware repository
fileType	String	Yes	1 Firmware Upgrade Image
connectionRequest	boolean	Yes	True or False True: Task issued immediately False: Follow the inform to take effect
operation	String	Yes	Operation type

Example Request:

```
{
  "token": "xxx",
  "deviceIndex": "SN/MAC", //mac format(aa:bb:cc:dd:ee:ff)
  "parameterBody": {
    "name": "download",
    "fileName": "xxx.bin",
    "fileType": "1 Firmware Upgrade Image"
  },
  "connectionRequest": true, // Whether the task needs to be immediately dispatched
  "operation": "createTask" // Operation name, indicating that the current operation is to create a task
}
```

Example of Response:

```
{
  "code": "200",
```

```

"taskId": "xxxx",
"status": "create device param task succeed"
}
    
```

2.3.6 Obtain Task Results

Request URL:

POST:/org-mgmt-api/device-task-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	token
deviceIndex	String	Yes	Device SN or MAC
operation	String	Yes	Operation type
taskIds	String	Yes	Task ID

Example Request:

```

{
  "token": "xxx",
  "deviceIndex": "SN/MAC", // mac format(aa:bb:cc:dd:ee:ff)
  "operation": "getTaskResult",
  "taskIds": ["xxx", "xxx"] // Task ID array to obtain task results
}
    
```

Example of Response:

```

{
  "code": '200',
  "successList": ["xxx", "xxx"], // List of successfully executed tasks
  "failList": ["xxx", "xxx"], // List of failed tasks
  "pendingList": ["xxx", "xxx"], // List of pending tasks
  "status": 'get task result succeed'
}
    
```

2.4 Org Operation API

2.4.1 Obtain Organization Information

Request URL:

POST: /org-mgmt-api/org-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	token
operation	String	Yes	Operation type

Example Request:

```
{
  "token": "xxx",
  "operation": "getOrgInfo"
}
```

Example of Response:

```
{
  "code": "200",
  "status": "Get Org info succeed",
  "orgInfoList": [
    {
      "orgId": "17",
      "name": "Vola Development",
      "description": "Vola Development",
      "ownerName": "zhouqq",
      "selected": true
    },
    ...
  ]
}
```

2.4.2 Create Organization

Request URL:

POST: /org-mgmt-api/org-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	token
operation	String	Yes	Operation type
orgName	String	Yes	org name

orgDescription	String	No	org Description
userEmail	String	No	User email
parentOrgId	String	Yes	parent org Id

Example Request:

```
{
  "token": "xxx",
  "operation": "createChildOrg",
  "orgName": "Your orgname",
  "orgDescription": "your org description",
  "userEmail": "Org owner Email",
  "parentOrgId": "xxx"
}
```

Example of Response:

```
{
  "code": "200",
  "status": "Create child organization succeed",
  "orgId": "xxx"
}
```

2.4.3 Update Organization Information

Request URL:

POST: /org-mgmt-api/org-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	token
operation	String	Yes	Operation type
orgName	String	Yes	org name
orgDescription	String	No	org Description
targetOrgId	String	Yes	target org Id

Example Request:

```
{
```

```

{
  "token": "xxx",
  "operation": "updateOrgInfo",
  "orgName": "xxx",
  "orgDescription": "xxx",
  "targetOrgId": "xxx"
}
    
```

Example of Response:

```

{
  "code": "200",
  "status": "update org info succeed"
}
    
```

2.4.4 Delete Organization

Request URL:

POST: /org-mgmt-api/org-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	token
operation	String	Yes	Operation type
childOrgId	String	Yes	child org Id

Example Request:

```

{
  "token": "xxx",
  "operation": "deleteChildOrg",
  "childOrgId": "xxx"
}
    
```

Example of Response:

```

{
  "code": "200",
  "status": "Delete child organization succeed"
}
    
```

2.5 Org Member Opreation API

2.5.1 Query Organization Member List

Request URL:

POST: /org-mgmt-api/org-member-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	token
operation	String	Yes	Operation type

Example Request:

```
{
  "token": "xxx",
  "operation": "get"
}
```

Example of Response:

```
{
  "code": "200",
  "status": "Org member get operation succeed",
  "orgMemberList": [
    {
      "name": "xxx",
      "email": "xxx",
      "role": "SUPER_ADMIN",
      "orgName": "xxx",
      "orgId": "xxx"
    },
    ...
  ]
}
```

2.5.2 Add Member to Org

Request URL:

POST: /org-mgmt-api/org-member-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
-----------	------	-----------	-------------

email	String	Yes	User email
token	String	Yes	token
targetOrgId	String	Yes	OrgID
operation	String	Yes	Operation type

Example Request:

```
{
  "email": "1365913261111@qq.com",
  "token": "xxx",
  "targetOrgId": "7cefc418-bfe6-451c-afba-42fd83b871c0",
  "operation": "add"
}
```

Example of Response:

```
{
  "code": "200",
  "status": "Org member add operation succeed"
}
```

2.5.3 Modify Member Permissions

Request URL:

POST: /org-mgmt-api/org-member-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
email	String	Yes	User email
token	String	Yes	token
targetRole	String	Yes	target Role identity SUPER_ADMIN or MEMBER
targetOrgId	String	Yes	OrgID
operation	String	Yes	Operation type

Example Request:

```
{
  "email": "1365913261111@qq.com",
  "token": "xxx",
  "targetRole": "SUPER_ADMIN",
  "targetOrgId": "7cefc418-bfe6-451c-afba-42fd83b871c0",
}
```

```
{
  "operation": "update"
}
```

Example of Response:

```
{
  "code": "200",
  "status": "Org member update operation succeed"
}
```

2.5.4 Delete Member from Org

Request URL:

POST: /org-mgmt-api/org-member-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
email	String	Yes	User email
token	String	Yes	token
targetOrgId	String	Yes	OrgID
operation	String	Yes	Operation type

Example Request:

```
{
  "email": "1365913261111@qq.com",
  "token": "xxx",
  "targetOrgId": "7cefc418-bfe6-451c-afba-42fd83b871c0",
  "operation": "delete"
}
```

Example of Response:

```
{
  "code": "200",
  "status": "Org member delete operation succeed"
}
```

2.6 Org File Operation API

2.6.1 Obtain The Device Firmware Upgrade List

Request URL:

POST: /org-mgmt-api/org-file-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	Device description
operation	String	Yes	Operation type
deviceIndex	String	Yes	Device serial number

Example Request:

```
{
  "token": "xxx",
  "operation": "getFirmware",
  "deviceIndex": "SN/MAC"
}
```

Example of Response:

```
{
  "code": "200",
  "status": "get firmware succeed",
  "firmware": [
    {
      "fileName": "FVLM_EC25_V0.3.2_202508201933_T_APP.bin",
      "fileId": "4",
      "releaseNote": "test2"
    },
    {
      "fileName": "FVLM_EC25_V0.3.6_BR20.0.8_202511121749_APP.bin",
      "fileId": "3",
      "releaseNote": "test"
    }
  ]
}
```

2.7 Provision Config Operation API

2.7.1 Upload Provision File

Request URL:

POST: /org-mgmt-api/provision-config-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	token
description	String	Yes	File description
file	Binary	Yes	Configuration file
operation	String	Yes	operation type- uploadFile

Note: Operation type support uploadFile、 getFileList、 DeleteFile、 downloadFile、 getDeviceFile、 downloadDeviceFile

Example Request:

Form-data

Token	xxx
description	test
file	Template.xml (File type)
operation	operation type:uploadFile

Example of Response:

```
{
  "code": "200",
  "status": "Provision file uploadFile operation succeed"
}
```

2.7.2 Obtain Provision File List

Request URL:

POST: /org-mgmt-api/provision-config-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	token
operation	String	Yes	operation type: getFileList

Example Request:

```
{
  "token": "xxx",
  "operation": "getFileList"
}
```

Example of Response:

```
{
  "code": "200",
  "status": "Provision file getFileList operation succeed",
  "FileList" : [
    {
      "fileId": "4c71213f-2bef-455d-ae2-5b4ba0344a19",
      "fileName": "Backup_2026-03-16_08_37_10.xml",
      "description": "",
      "date": "Mar 20 2026",
      "time": "09:25",
      "createdBy": "xxx@.com"
    }
    ... ..
  ]
}
```

2.7.3 Obtain Device Provision File Info

Request URL:

POST: /org-mgmt-api/provision-config-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	token
operation	String	Yes	operation type: getDeviceFile

deviceIndexes	String	Yes	SN or Mac(aa:bb:cc...)
---------------	--------	-----	------------------------

Example Request:

```
{
  "token": "xxx",
  "operation": "getDeviceFile",
  "deviceIndex": "SN or MAC"
}
```

Example of Response:

```
{
  "code": "200",
  "status": "Provision file getFileList operation succeed",
  "filelist": [
    {
      "fileId": "4c71213f-2bef-455d-ae2-5b4ba0344a19",
      "fileName": "Backup_2026-03-16_08_37_10.xml",
      "description": "xxx_config",
    }
  ]
}
```

2.7.4 Download Org Provision File

Request URL:

POST: /org-mgmt-api/provision-config-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	token
operation	String	Yes	operation type: downloadFile
fileId	String	Yes	The id associated with the file can be obtained through a query

Example Request:

```
{
  "token": "xxx",
  "operation": "downloadFile",
  "fileId": "file id-1"
}
```

Example of Response:

```
<?xml version="1.0" encoding="utf-8"?>
<node name="Device" rw="0"...
... ..
... ..
/node>
```

2.7.5 Download Device Provision File

Request URL:

POST: /org-mgmt-api/provision-config-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	token
operation	String	Yes	operation type:downloadDeviceFile
deviceIndex	String	Yes	SN or Mac(aa:bb:cc...)

Example Request:

```
{
  "token": "xxx",
  "operation": "downloadDeviceFile",
  "deviceIndex": "SN or MAC"
}
```

Example of Response:

```
<?xml version="1.0" encoding="utf-8"?>
<node name="Device" rw="0"...
... ..
... ..
/node>
```

2.7.6 Delete Provision File

Request URL:

POST:/org-mgmt-api/provision-config-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	token
operation	String	Yes	operation type: deleteFile
fileId	String	Yes	The id associated with the file can be obtained through a query

Example Request:

```
{
  "token": "xxx",
  "operation": "deleteFile",
  "fileId": "file id-1"
}
```

Example of Response:

```
{
  "code": "200",
  "status": "Provision file deleteFile operation succeed"
}
```

2.8 Associate the Provisioning File with the Device

Request URL:

POST: /org-mgmt-api/device-batch-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	token

deviceIndexes	Dict	Yes	the mapping relationship between fileId and device sn/mac
operation	String	Yes	operation type

Example Request:

```

{
  "token": "xxx",
  "operation": "updateProvisionConfig",
  "deviceIndexes": {
    "fileId1": ["SN1", "SN2"],
    "fileId2": ["MAC1", "MAC2"] //mac format(aa:bb:cc:dd:ee:ff)

    //Notes: If you need to unbind the profile and device, please fill the fileId empty
    //Eg: "": ["SN1", "SN2"]
  }
}

```

Example of Response:

```

{
  "code": "200",
  "status": "device batch updateProvisionConfig operation succeed"
}

```

2.9 Obtain DashBoard Stats API

Request URL:

POST: /org-mgmt-api/get-dashboard-stats

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	the token value returned after successful login.
flowMode	String	Yes	Option noFlow、onlyFlow、all noFlow: Queries excluding LTE data usage onlyFlow: Query LTE traffic statistics separately all: Includes the above two types

Example Request:

```

{
  "token": "token Value",
  "flowMode": "all" // Option noFlow、 onlyFlow、 all
}
    
```

Example of Response:

```

{
  "code": "200",
  "status": "Get Dashboard status succeed",
  "dashboardList": [
    {
      "orgId": "xxx",
      "DeviceOnlineStatus": [
        2,
        9
      ],
      "DeivceRegisterStatus": [
        0,
        37
      ],
      "DeviceType": [
        {
          "deviceType": "PR08-PRO",
          "deviceCount": 3
        },
        {
          "deviceType": "PR18",
          "deviceCount": 1
        },
        {
          "deviceType": "P21P",
          "deviceCount": 1
        },
        {
          "deviceType": "PR12",
          "deviceCount": 2
        },
        {
          "deviceType": "LM150",
          "deviceCount": 1
        }
      ],
      "supplyData": [
        11,
        0,
        0
      ]
    }
  ]
}
    
```

```

    ],
    "dailySummary": []
  },
  ...
]
}

```

2.10 Obtain Device List API

Request URL:

POST: /org-mgmt-api/device-list

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	the token value returned after successful login.
usageStatus	String	Yes	inventory / inUse

Example Request:

```

{
  "token":"token Value",
  "usageStatus":"inventory" //Option inventory、 inUse
}

```

Example of Response:

```

{
  "code": "200",
  "status": "Device list succeed",
  "deviceList": [
    {
      "deviceId": "xxx",
      "status": "Offline",
      "deviceSN": "xxx",
      "deviceModel": "xxx",
      "softwareVersion": "xxx",
      "line": [
        0,
        0,
        0,

```

```

        0,
        0,
        0,
        0,
        0
      ],
      "orgName": "xxx",
      "lastUpdateTime": "Nov 21 2025 14:42",
      "description": "xxx",
      "provisionFileStatus": false,
      "orgId": "xxx",
      "supportedFRP": true
    },
    ...
  ]
}
```

2.11 User Operation API

2.11.1 Obtain User Information API

Request URL:

POST: /user-mgmt-api/user-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	Token
operation	String	Yes	Operation type

Example Request:

```

{
  "token": "xxx",
  "operation": "getInfo"
}
```

Example of Response:

```

{
  "code": "200",
  "status": "User getInfo operation succeed",
  "userInfo": {
```

```

    "nickName": "xxx",
    "email": "xxx",
    "currentOrgId": "xxx",
    "timeZone": "Asia/Shanghai",
    "acceptEmailAlert": false
  }
}

```

2.11.2 Update user information

Request URL:

POST: /user-mgmt-api/user-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	the token value returned after successful login.
nickName	String	Yes	user nick name
acceptEmailAlert	boolean	Yes	True or false :whether accept Email Alert
timeZone	String	Yes	time zone
operation	String	Yes	Operation type

Example Request:

```

{
  "token": "xxx",
  "nickName": "cc",
  "acceptEmailAlert": false,
  "timeZone": "Asia/Shanghai",
  "operation": "updateInfo"
}

```

Example of Response:

```

{
  "code": "200",
  "status": "User updateInfo operation succeed"
}

```

```
}
```

2.11.3 Obtain User Organization List

Request URL:

POST: /user-mgmt-api/user-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	the token value returned after successful login.
operation	String	Yes	Operation type

Example Request:

```
{
  "token": "xxx",
  "operation": "getOrgList"
}
```

Example of Response:

```
{
  "code": "200",
  "status": "User getOrgList operation succeed",
  "orgList": [//List
    {
      "orgId": "xxx",
      "name": "xxx",
      "role": "MEMBER",
      "selected": false,
      "children":
    },
    {
      "orgId": "xxx",
      "name": "xxx",
      "role": "OWNER",
      "selected": true,
      "children": [
        {
          "orgId": "xxx",
          "name": "xxx",
          "role": "OWNER",
```

```

        "selected": false,
        "children": []
      },
      ...
    ]
  },
  ...
]
}

```

2.11.4 Switch user's current organization

Request URL:

POST: /user-mgmt-api/user-operation

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
token	String	Yes	the token value returned after successful login.
targetOrgId	String	Yes	target Org Id
operation	String	Yes	Operation type

Example Request:

```

{
  "token": "xxx",
  "targetOrgId": "xxx",
  "operation": "switchOrg"
}

```

Example of Response:

```

{
  "code": "200",
  "status": "User getInfo operation succeed",
  "userInfo": {
    "nickName": "cc-api",
    "email": "chenjungong@flyingvoice.com",
    "currentOrgId": "096c5df5-85c8-46cb-90aa-20c77ab27bc1",
    "timeZone": "Asia/Shanghai",
    "acceptEmailAlert": true
  }
}

```

```

}
}
    
```

2.12 Use Cognito registration API

2.12.1 Cognito Sign-Up API

Request URL:

The URL for Service Access: <https://cognito-idp.us-east-1.amazonaws.com/>

Header Parameter:

Key	Value
Content-Type	application/x-amz-json-1.1
X-Amz-Target	AWSCognitoIdentityProviderService.SignUp

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
ClientId	Yes	Yes	Client ID
Username	Yes	Yes	Must an email
Password	Yes	Yes	Your Sign-up password
UserAttributes	List	Yes	Email info and nickname

Example Request:

```

{
  "ClientId": "7cesaosdpl16vhstpg3rjav4ia",    //Fixed value
  "Username": "KerwinC@volanetworks.com",    // Should be an email
  "Password": "PwdV@la135",    // Your Password: must be a strong password
  "UserAttributes": [
    {
      "Name": "email",
      "Value": "KerwinC@volanetworks.com" // Your email info ,same with Username
    },
    {
      "Name": "nickname",
      "Value": "Kerwin"    //Your nickname
    }
  ]
}
    
```

```
}
```

Example of Successful Response:

```
{
  "CodeDeliveryDetails": {
    "AttributeName": "email",
    "DeliveryMedium": "EMAIL",
    "Destination": "K***@v***"
  },
  "UserConfirmed": false,
  "UserSub": "949844c8-4021-707d-ca69-899331b6eb12"
}
```

2.12.2 Cognito Confirm Sign-Up API

Request URL:

The URL for Service Access: <https://cognito-idp.us-east-1.amazonaws.com/>

Header Parameter:

Key	Value
Content-Type	application/x-amz-json-1.1
X-Amz-Target	AWSCognitoIdentityProviderService.SignUp

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
ClientId	Yes	Yes	Client ID
Username	Yes	Yes	Your Sign-up email
ConfirmationCode	Yes	Yes	Your email verification code

Example Request:

```
{
  "ClientId": "7cesaosdpl16vhstpg3rjav4ia", //Fixed value
  "Username": "KerwinC@volanetworks.com", // Your sign-up email
  "ConfirmationCode": "xxxxxx" // Your email verification code
}
```

Example of Successful Response:

```
{}
```

2.12.3 Use Cognito Login API(Enable MFA)

Request URL:

The URL for Service Access: <https://cognito-idp.us-east-1.amazonaws.com/>

Header Parameter:

Key	Value
Content-Type	application/x-amz-json-1.1
X-Amz-Target	AWSCognitoIdentityProviderService.InitiateAuth

Request Parameter:

Body Parameter

Parameter	Type	Mandatory	Description
AuthFlow	String	Yes	USER_PASSWORD_AUTH
ClientId	String	Yes	Client ID
AuthParameters	Dict	Yes	Include the USERNAME and PASSWORD in the requests

Example Request:

```
{
  "AuthFlow": "USER_PASSWORD_AUTH",    //Fixed value
  "ClientId": "7cesaodpl16vhstpg3rjav4ia", //Fixed value
  "AuthParameters": {
    "USERNAME": "KerwinC@volanetworks.com", //login username
    "PASSWORD": "password" //login password
  }
}
```

Example of Successful Response:

```
{
  "AuthenticationResult": {
    "AccessToken": "Your accesstoken info",
    "ExpiresIn": 86400,
    "IdToken": "Your idtoken info",
    "RefreshToken": "Your Refresh token info",
    "TokenType": "Bearer"
  }
}
```

```
},  
  "ChallengeParameters": {}  
}
```