

IoT Explorer

Application Side API



Tencent Cloud

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Application Side API

Application Side API Introduction

Last updated: 2025-04-28 15:12:20

Overview

The application-side API is a cloud service provided by the development platform to meet the smart home scenario. It is developed for users to develop their own brand's mini programs or apps. Users do not need to implement basic capabilities such as user management, device management, device scheduling, and family management. They can quickly complete the development of the mobile application end by calling the application-side API.

Calling Method

1. The API URL used before login is:

Note:

- Chinese mainland platform:
<https://iot.cloud.tencent.com/api/exploreroopen/appapi>
- Overseas platform:
<https://oversea.iotcloud.tencentiotcloud.com/api/exploreroopen/appapi>

Among them, the common parameters are: Action, RequestId, AppKey, Signature, Timestamp, Nonce.

- Action used to identify the request method name.
- RequestId used to identify a unique request. It is recommended to use uuid as the parameter value. It is advisable to provide this parameter value when locating issues.
- AppKey is the key of the application.
- Signature is the signature of the current request. For specific calculation, see the example below in this document.
- Timestamp is the UNIX second-level timestamp of the current request.
- Nonce is a random positive integer, used together with the timestamp to prevent API replay attacks.

2. The API URL used after log-in is:

Note:

- Chinese mainland platform:
`https://iot.cloud.tencent.com/api/exploreroopen/tokenapi`
- Overseas platform:
`https://oversea.iotcloud.tencentiotcloud.com/api/exploreroopen/tokenapi`

Among them, the common parameters are: Action, RequestId, AccessToken.

- Action used to identify the request method name.
- RequestId used to identify a unique request. It is recommended to use uuid as the parameter value. It is advisable to use this parameter value when locating issues.
- AccessToken used to identify a logged-in user.

Note:

Before calling the application side API interface, you need to call the login-related API (application side API/user management) first. After successful log-in, obtain `AccessToken`.

`AccessToken` is used to identify a user. After a user logs in successfully, carry `AccessToken` to call APIs of other applications.

URL suffix for calling before login is `.../appapi` URL suffix for calling after login is `.../tokenapi`

Signature Algorithm

Retrieve the Application AppKey and AppSecret

If the user does not use Tencent's official "Tencent Lianlian" mini program, the user can also develop their own brand mini program through the platform's open capabilities. When creating an application, the platform will generate a security credential corresponding to the mini program for the user. The security credential includes AppKey and AppSecret. AppKey is used to identify the API caller identity, and AppSecret is the key used to encrypt signature strings and for server-side verification of signature strings.

Note:

Users should strictly keep their AppSecrets to avoid leakage.

The specific retrieval steps are as follows:

- 1.1 Log in to the [IoT Explorer console](#) and enter the development center.
- 1.2 Select **Application Development > Mini Program Development** in the left menu, create a mini program. For specific creation steps, see [Application Development](#).

1.3 Upon success in creating a mini program, you can obtain the system-generated AppKey and AppSecret.

Generate Signature String

After obtaining the security credentials AppKey and AppSecret, you can generate a signature string. Below is a detailed process of generating a signature string.

Assuming the user's AppKey and AppSecret are:

- **AppKey:** ahPxdK****TGrejD
- **AppSecret:** NcbHqk****TCGbKnQH

Note:

This article is only an example. Please continue subsequent operations according to your actual AppKey and AppSecret .

Take the request to register an account via mobile phone number AppCreateCellphoneUser as an example. When a user makes this API call, its request parameters **may be** as follows:

Parameter Name	Type	Description	Reference Value
RequestId	String	Common parameters, unique request ID, can be generated manually, uuid is recommended for use. Locating issues, it is required to provide the RequestId for the request.	8b8d499bbba1ac28b6da21b4
Action	String	Common parameters, API method name of the call.	AppCreateCellphoneUser
AppKey	String	Common parameters, application AppKey, used to identify the corresponding app.	ahPxdK****TGrejD
Signature	String	Common parameters, signature of the request.	Szxai9Qs7****OXahbFbseZ+uE=
Timestamp	Int64	Common parameters, current UNIX timestamp (in seconds).	1546315200
Nonce	Int	Common parameters, a random positive integer, used together with the timestamp for API anti-replay.	71087795

CountryCode	String	Country Code.	86
PhoneNumber	String	Phone Number.	13900000000
Password	String	Password.	password
VerificationCode	String	SMS Captcha.	123456

Note:

- The common request parameters in the request parameter include: RequestId, Action, AppKey, Timestamp, Nonce, Signature.
- AppCreateCellphoneUser API-specific parameters: CountryCode, PhoneNumber, Password, VerificationCode.

The parameter Signature (signature string) is generated by the above parameters together. Specific steps are as follows:

1. Sort the args parameter.

Sort all request parameters in lexicographical ascending order of the parameter name. Lexicographical ascending order is intuitively like sorting words in a dictionary. Sort according to the ascending order in the alphabet or number table. That is, first consider the first “letter” . In the same case, consider the second “letter” , and so on. You can use relevant sorting functions in programming languages to achieve this feature. For example, the ksort function in PHP. The sorting results of the above example parameters are as follows:

```
{
    Action=AppCreateCellphoneUser,
    AppKey=ahPxdK****TGrejd,
    CountryCode=86,
    Nonce=71087795,
    Password=My!P@ssword,
    PhoneNumber=13900000000,
    RequestId=8b8d499bbba1ac28b6da21b4,
    Timestamp=1546315200,
    VerificationCode=123456
}
```

When using other programming languages for development, you can sort the parameters in the above example. Results consistent with the obtained ones are acceptable.

2. Concatenate the request string.

Format the sorted request parameters from the previous step into the form of "parameter name" = "parameter value". For example, for the action parameter, whose parameter name is "Action" and parameter value is "AppCreateCellphoneUser", it will be formatted as Action=AppCreateCellphoneUser after formatting.

- The parameter value is the original value, not the URL-encoded value.
- If the "key" in the input parameter contains an underscore, it needs to be converted to ".". No additional operation is required for the "value".

Concatenate each formatted parameter with "&". The final request string generated is:

```
Action=AppCreateCellphoneUser&AppKey=ahPxdK***TGrejd&CountryCode=86&Nonce=71087795&Password=My!P@ssword&PhoneNumber=13900000000&RequestId=8b8d499bbba1ac28b6da21b4&Timestamp=1546315200&VerificationCode=123456
```

3. Generate the signature string.

Use the HMAC-SHA1 algorithm to sign the signature source string obtained in the previous step. Then encode the generated signature string using Base64 to obtain the final signature string.

The specific code is as follows, taking PHP as an example:

```
$secretKey = 'NcbHqk***TCGbKnQH';
$srcStr =
'Action=AppCreateCellphoneUser&AppKey=ahPxdK***TGrejd&CountryCode=86&
Nonce=71087795&Password=My!P@ssword&PhoneNumber=13900000000&RequestId=
8b8d499bbba1ac28b6da21b4&Timestamp=1546315200&VerificationCode=123456'
;
$signStr = base64_encode(hash_hmac('sha1', $srcStr, $secretKey,
true));
echo $signStr
```

The final obtained signature string is:

```
Szxai9Qs703lBoOXahbFbseZ+uE=
```

When using other programming languages for development, you can use the original text in the above example for signature verification. The obtained signature string should be consistent with that in the example.

Common Issues

For parameters that are strings and empty, they should be omitted from the signature string. It is not necessary to include them in the signature.

DevTools

Use the application-side API [DevTools](#) to quickly debug the application-side API.

User Management

WeChat ID Registration and Login

Last updated: 2025-04-28 15:12:53

1. API Description

API request domain name: `iot.cloud.tencent.com/api/exploreropen/appapi`.

This interface (AppGetTokenByWeiXin) is used for WeChat user registration and login to obtain the user access Token of the development platform. When called for the first time, it automatically registers a corresponding account for the WeChat ID.

2. Input Parameters

Name	Type	Required	Description
Action	String	Yes	Common parameter, this interface takes values: AppGetTokenByWeiXin.
RequestId	String	Yes	Common parameter, unique request ID, can be generated manually, uuid is recommended for use. Locating issues, need to provide the RequestId for the request.
AppKey	String	Yes	Common parameter, application AppKey, used to identify the corresponding mini program or app.
Signature	String	Yes	Common parameter, signature request, which needs to be generated by the user on one's own and is used for verifying the legitimacy of the request.
Timestamp	Int64	Yes	Common parameter, request's UNIX timestamp (in seconds).
Nonce	Int	Yes	Common parameter, a random positive integer, combined with Timestamp to prevent replay attacks.
WxOpenID	String	Yes	OpenID or UnionID of a WeChat user.
Nickname	String	Yes	Nickname.

Avatar	String	Yes	Avatar.
--------	--------	-----	---------

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameters, unique request ID, consistent with the input parameters.
ExpireAt	Int64	Deadline, UNIX second-level timestamp.
Token	String	AccessToken returned by the development platform. Use this Token to make api requests after logging in.

4. Samples

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/appapi HTTP/1.1
content-type: application/json
{
  "WxOpenID": "0123456789",
  "NickName": "tests",
  "Avatar": "http://example.com/path/to/avatar.jpg",
  "Signature": "IY0yHX7zWCZKZ97xDonQoy16W4U=",
  "Timestamp": 1552621825,
  "Nonce": 2,
  "Action": "AppGetTokenByWeiXin",
  "AppKey": "ahPxdK*****TGrejd",
  "RequestId": "rest-client"
}
```

Output example: successful

```
{
  "Response": {
    "Data": {
      "ExpireAt": 1556076201,
      "Token": "d2*****8514"
    },
    "RequestId": "rest-client"
  }
}
```

```
}  
}
```

Output example: failure

```
{  
  "Response": {  
    "Error": {  
      "Code": "InvalidParameterValue.ErrorUserNotExists",  
      "Message": "account does not exist"  
    },  
    "RequestId": "rest-client"  
  }  
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
ErrorRequiredParamNotFound	Required parameter is missing.
InvalidAction	Illegal Action.
InvalidParameterValue	Parameters are abnormal.
InvalidParameterValue.InvalidJSON	The request format is not JSON.
InvalidParameterValue.NickNameLengthInvalid	Nickname length is illegal.

User Logging Out

Last updated: 2025-12-19 09:14:42

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This API (AppLogoutUser) is used for user logout.

2. Input Parameters

Name	Type	Required	Description
Action	String	Yes	Common parameter, this interface takes values: AppLogoutUser.
AccessToken	String	Yes	Common parameter, AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter, unique request ID, can be generated manually, uuid is recommended for use. Locating issues, need to provide the RequestId for the request.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter, unique request ID, same as the input parameter. Locating issues, need to provide the RequestId for the request.
Data	String	Response result.

4. Samples

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "AccessToken": "bf*****d098",
  "Action": "AppLogoutUser",
```

```
"RequestId": "rest-client"
}
```

Output sample: successful

```
{
  "Response": {
    "Data": "OK",
    "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68"
  }
}
```

Output example: failure

```
{
  "Response": {
    "Error": {
      "Code": "InvalidParameterValue.InvalidAccessToken",
      "Message": "Invalid Token"
    },
    "RequestId": ""
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	An internal error occurred.
ErrorRequiredParamNotFound	Required parameter is missing.
InvalidAction	Illegal Action.
InvalidParameterValue	Invalid parameter.
InvalidParameterValue.InvalidJSON	The request format is not JSON.
InvalidParameterValue.InvalidAccessToken	Invalid Token.

Distribution Network Management

Generating Wi-Fi Device Configuration Token

Last updated: 2025-04-30 15:17:48

1. API Description

API request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`

This interface (AppCreateDeviceBindToken) is used to generate a random Token for the Wi-Fi configuration task.

2. Input Parameter

Name	Type	Required	Description
Action	String	Yes	Common parameter, this interface takes values: AppCreateDeviceBindToken.
RequestId	String	Yes	Common parameter, unique request ID, can be generated manually, uuid is recommended. Locating issues, need to provide the RequestId for the request.
AccessToken	String	Yes	Common parameter, AccessToken is used for user authentication of a logged-in user.

3. Output Parameters

Name	Type	Description
RequestId	String	RequestId.
Token	String	Generated distribution network Token.

4. Examples

Example 1 Generate a Wi-Fi Device Networking Token

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "Action": "AppCreateDeviceBindToken",
  "AccessToken": "bf*****d098",
  "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68"
}
```

Output sample: successful

```
{
  "Response": {
    "Data": {
      "Token": "d7*****1b3b",
      "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68"
    }
  }
}
```

Output sample: fail

```
{
  "Response": {
    "Error": {
      "Code": "InvalidParameterValue.InvalidAccessToken",
      "Message": "Invalid Token"
    },
    "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68"
  }
}
```

5. Error Code

Error Code	Description
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.

InvalidParameterValue.TokenInfoSaveError

Token saving failed.

Query Distribution Network Token Status

Last updated: 2025-04-30 15:18:03

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreroopen/tokenapi`

This interface (AppGetDeviceBindTokenState) is used for querying the current status of the network configuration Token.

2. Input Parameter

Name	Type	Required	Description
Action	String	Yes	Common parameter, this interface takes values: AppGetDeviceBindTokenState.
RequestId	String	Yes	Common parameter, unique request ID, can be generated manually, uuid is recommended for use. Locating issues, need to provide the RequestId for the request.
AccessToken	String	Yes	Common parameter, the Access Token obtained upon successful login through WeChat ID, mobile phone, or email account.
Token	String	Yes	The network configuration Token generated by the AppCreateDeviceBindToken API.

3. Output Parameter

Name	Type	Description
RequestId	String	RequestId.
State	Uint	Token status. <ul style="list-style-type: none">• Initial production.• 2: Usable status.

4. Example

Sample 1 Query the Status of the Distribution Network Token

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "Action": "AppCreateDeviceBindToken",
  "AccessToken": "bf*****d098",
  "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68",
  "Token": "d7a1*****a861b3b"
}
```

Output example: success

```
{
  "Response": {
    "Data": {
      "State": 1,
      "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68"
    }
  }
}
```

Output example: failure

```
{
  "Response": {
    "Error": {
      "Code": "InvalidParameterValue.TokenNotExist",
      "Message": "Token does not exist"
    },
    "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68"
  }
}
```

5. Error Code

Error Code	Description
------------	-------------

InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.TokenNotExist	Token does not exist.
InvalidParameterValue.TokenIsExpire	Token has expired.
InvalidParameterValue.ReadTokenInfoError	Token read error.

User Binding Wi-Fi Device

Last updated: 2025-04-30 15:18:21

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`

This interface (AppTokenBindDeviceFamily) is used for user binding of Wi-Fi devices in mini programs or apps.

2. Input Parameter

Name	Type	Required	Description
Action	String	Yes	Common parameter, this interface takes values: AppTokenBindDeviceFamily.
RequestId	String	Yes	Common parameter, unique request ID, can be generated manually, recommended to use uuid. Locating issues, need to provide the RequestId for the request.
AccessToken	String	Yes	Common parameter, the Access Token obtained after users through WeChat ID, mobile phone or email account login successfully.
Token	String	Yes	Distribution network Token.
ProductId	String	Yes	Product ID.
DeviceName	String	Yes	Device name.
FamilyId	String	Yes	Family ID.
RoomId	String	Yes	Room ID.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter, unique request ID, can be generated manually, recommended to use uuid.

Locating issues, need to provide the RequestId for the request.

4. Example

User Binding Wi-Fi Device

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "Action": "AppTokenBindDeviceFamily",
  "AccessToken": "tesetoken",
  "Token": "bf*****d098",
  "ProductId": "*****",
  "DeviceName": "*****",
  "FamilyId": "f*****cc1",
  "RoomId": "0"
  "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68"
}
```

Output example: successful

```
{
  "Response": {
    "Data": {
      "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68"
    }
  }
}
```

Output example failure

```
{
  "Response": {
    "Error": {
      "Code": "InvalidParameterValue.InvalidAccessToken",
      "Message": "Invalid Token"
    },

```

```

    "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68"
  }
}

```

5. Error Code

Error Code	Description
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.TokenNotExist	The Token does not exist.
InvalidParameterValue.TokenIsExpired	Token has expired.
InvalidParameterValue.ReadTokenInfoError	Token read error.
InvalidParameterValue.TokenNotBind	The Token is not bound, that is, the return status queried by the previous step API AppGetDeviceBindTokenState is in the initial status, not in the usable status.
InvalidParameterValue.FamilyDeviceCountReadError	Error reading device quantity.
UnauthorizedOperation	No operation permissions.
UnauthorizedOperation.APPNoPermissionToStudioProduct	The App has no permission to perform operations on this product.
UnauthorizedOperation.NoPermissionToFamily	No permission to operate this family.
ResourceNotFound	Resource does not exist.
ResourceNotFound.StudioFamilyNotExist	The family is not created or has been deleted.
ResourceNotFound.StudioProductNotExist	The product is not created or has been deleted.
ResourceNotFound.DeviceNotExist	The device is not created or has been deleted.

LimitExceeded	Quantity Limit.
LimitExceeded.FamilyDeviceExceedLimit	The device quantity exceeds the limit.
InternalError	Internal error.
InternalError.InternalServerErrorException	Internal error.
InternalError.InternalServerErrorExceptionDB	Internal DB error.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.CannotBindSameFamily	The device has been bound. Do not repeat binding.

Device management

Query Weixin Authorization Invoice

Last updated: 2025-04-30 16:26:32

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`

This interface (APPGetWechatDeviceTicket) is used to obtain WeChat Device Ticket.

2. Input Parameter

Name	Type	Required	Description
Action	String	Yes	Common parameter, this interface takes values: APPGetWechatDeviceTicket.
RequestId	String	Yes	Common parameter, unique request ID, can be generated manually, recommended to use uuid. When locating issues, it is required to provide the RequestId for the request.
AccessToken	String	Yes	Common parameter, AccessToken is used for user authentication of a logged-in user.
ProductId	String	Yes	Product ID.
Devicename	String	Yes	Device name.
IsThirdApp	Int	Yes	Whether it is a third-party mini program: 1 = Yes.
ModelId	String	No	Template ID
MiniProgramAppId	String	No	Mini program APPID

3. Output Parameter

Name	Type	Description
------	------	-------------

RequestId	String	RequestId.
Data	WXDeviceInfo	Generated WeChat Device Ticket info.

4. Example

Example 1 Obtaining WeChat Device Ticket

<input example>

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "Action": "APPGetWechatDeviceTicket",
  "AccessToken": "bf*****d098",
  "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68",
  "ProductId": "PRODUCT_ID",
  "Devicename": "DEVICE_NAME",
  "IsThirdApp": 1
}
```

Output sample: successful

```
{
  "Response": {
    "Data": {
      "DeviceId": "xxx",
      "WXIoTDeviceInfo": {
        "SN": "xxx",
        "SNTicket": "xxx",
        "ModelId": "xxx"
      },
      "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68"
    }
  }
}
```

Output example: fail

```
{
  "Response": {
    "Error": {
      "Code": "InvalidParameterValue.InvalidAccessToken",
      "Message": "Invalid Token"
    },
    "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68"
  }
}
```

5. Error Code

Error Code	Description
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.TokenInfoSaveError	Token saving failed.

Obtaining Product Information

Last updated: 2025-04-30 15:28:00

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppGetProducts) obtains product information.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	common parameter, AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter, unique request ID, can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter, this interface takes values: AppGetProducts.
ProductIds	Array of String	Yes	Product ID array.
DeviceIds	Array of String	No	Device ID array.

3. Output Parameter

Name	Type	Description
Products	Array	Return product information.
RequestId	String	Common parameters, unique request ID, same as input parameters.

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
```

```
content-type: application/json
{
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec",
  "RequestId": "27HPvi1ylv",
  "Action": "AppGetProducts",
  "ProductIds": ["FVYYEEL4ON"],
  "DeviceIds": ["QDA1PZLBNB/aaa", "QDA1PZLBNB/bbb"]
}
```

Output example: succeed

```
{
  "Response": {
    "Products": [
      {
        "ProductId": "FVYYEEL4ON",
        "Name": "c1",
        "Description": "yes",
        "State": "",
        "DataTemplate": {
          "version": "1.0",
          "profile": {
            "ProductId": "FVYYEEL4ON",
            "CategoryId": "1",
            "properties": [
              {
                "id": "mac",
                "name": "mac address",
                "desc": "wifi router mac address",
                "required": true,
                "mode": "r",
                "define": {
                  "type": "string",
                  "min": "0",
                  "max": "30"
                }
              },
              {
                "id": "signal",
                "name": "wifi signal strength",
                "desc": "wifi signal strength value",
                "mode": "r",
                "define": {
                  "type": "int",
                  "unit": "dbm",
                  "step": "1",
                  "min": "-180",
                  "max": "180",
                  "start": "1"
                }
              },
              {
                "id": "ssid",
                "name": "SSID",
                "desc": "SSID of the wifi hotspot connected by the device",
                "mode": "r",
                "define": {
                  "type": "string",
                  "min": "0",
                  "max": "64"
                }
              },
              {
                "id": "severip",
                "name": "IP address integrated by the wifi router",
                "desc": "IP address integrated by the wifi router",
                "mode": "r",
                "define": {
                  "type": "string",
                  "min": "0",
                  "max": "64"
                }
              },
              {
                "id": "nmacs",
                "name": "other hotspot MAC address",
                "desc": "other hotspot MAC addresses that can be received",
                "mode": "r",
                "define": {
                  "type": "string",
                  "min": "0",
                  "max": "64"
                }
              }
            ],
            "events": [],
            "actions": []
          }
        },
        "AppTemplate": "",
        "NetType": "wifi",
      }
    ]
  }
}
```

```

        "CategoryId":1,
        "ProductType":0,
        "UpdateTime":1600159203
    },
    {
        "ProductId":"QDA1PZLBNB",
        "Name":"light5 do not delete"
        "Description":"","
        "State":"","
        "DataTemplate":{"version":"1.0","profile":
{"ProductId":"QDA1PZLBNB","CategoryId":"141"},"properties":
[{"id":"power_switch","name":"light switch","desc":"control light
on/off","required":true,"mode":"rw","define":{"type":"bool","mapping":
{"0":"off","1":"on"}}},{id":"color","name":"light color","desc":"light
color","mode":"rw","define":{"type":"enum","mapping":
{"0":"Red","1":"Green","2":"Blue"}}},{id":"brightness","name":"light
brightness","desc":"light brightness","mode":"rw","define":
{"type":"int","unit":"%","step":"1","min":"0","max":"100","start":"1"}},
{"id":"name","name":"light position name","desc":"light position name,
such as study room, living room","mode":"rw","required":false,"define":
{"type":"string","min":"0","max":"64"}},
{"id":"Temperature","name":"temperature","desc":"","mode":"rw","define":
{"type":"float","min":"0","max":"100","start":"0","step":"1","unit":""},
"required":false},{id":"temp_max","name":"max
temperature","desc":"","mode":"rw","define":
{"type":"int","min":"0","max":"100","start":"0","step":"1","unit":"","r
equired":false},
{"id":"LBS_BS","name":"LBS_BS","desc":"","mode":"rw","define":
{"type":"string","min":"0","max":"2048"},"required":false},
{"id":"FOO","name":"FOO","desc":"","mode":"rw","define":
{"type":"string","min":"0","max":"2048"},"required":false},
{"id":"GPS_Ext","name":"GPS_Ext","desc":"","mode":"rw","define":
{"type":"string","min":"0","max":"2048"},"required":false}], "events":
[{"id":"status_report","name":"DeviceStatus","desc":"Report the device
status","type":"info","required":false,"params":
[{"id":"status","name":"running_state","desc":"Report current device
running state","define":{"type":"bool","mapping":
{"0":"normal","1":"fault"}}},
{"id":"message","name":"Message","desc":"Some extra message","define":
{"type":"string","min":"0","max":"64"}]}]}],

```

```

{"id":"low_voltage","name":"LowVoltage","desc":"Alert for device voltage
is low","type":"alert","required":false,"params":
[{"id":"voltage","name":"Voltage","desc":"Current voltage","define":
{"type":"float","unit":"V","step":"1","min":"0.0","max":"24.0","start":
"1"}]}, {"id":"hardware_fault","name":"Hardware_fault","desc":"Report
hardware fault","type":"fault","required":false,"params":
[{"id":"name","name":"Name","desc":"Name like: memory,tf card,
sensors...", "define":{"type":"string","min":"0","max":"64"}},
{"id":"error_code","name":"Error_Code","desc":"Error code for
fault","define":
{"type":"int","unit":"","step":"1","min":"0","max":"2000","start":"1"}]}
]], "actions": []}
    "AppTemplate":"","
    "NetType":"else",
    "CategoryId":141,
    "ProductType":0,
    "UpdateTime":1600265188
  },
  {
    "ProductId":"QDA1PZLBNB",
    "Name":"light5 do not delete"
    "Description":"","
    "State":"","
    "DataTemplate":{"version":"1.0","profile":
{"ProductId":"QDA1PZLBNB","CategoryId":"141"},"properties":
[{"id":"power_switch","name":"light switch","desc":"control light on and
off","required":true,"mode":"rw","define":{"type":"bool","mapping":
{"0":"off","1":"on"}}, {"id":"color","name":"color","desc":"light
color","mode":"rw","define":{"type":"enum","mapping":
{"0":"Red","1":"Green","2":"Blue"}},
{"id":"brightness","name":"brightness","desc":"light
brightness","mode":"rw","define":
{"type":"int","unit":"%","step":"1","min":"0","max":"100","start":"1"}},
{"id":"name","name":"light position name","desc":"light position name,
such as study room, living room,
etc.,"mode":"rw","required":false,"define":
{"type":"string","min":"0","max":"64"}},
{"id":"Temperature","name":"temperature","desc":"","mode":"rw","define":
{"type":"float","min":"0","max":"100","start":"0","step":"1","unit":""},
"required":false}, {"id":"temp_max","name":"max

```

```

temperature", "desc": "", "mode": "rw", "define":
{"type": "int", "min": "0", "max": "100", "start": "0", "step": "1", "unit": ""}, "required": false},
{"id": "LBS_BS", "name": "LBS_BS", "desc": "", "mode": "rw", "define":
{"type": "string", "min": "0", "max": "2048"}, "required": false},
{"id": "FOO", "name": "FOO", "desc": "", "mode": "rw", "define":
{"type": "string", "min": "0", "max": "2048"}, "required": false},
{"id": "GPS_Ext", "name": "GPS_Ext", "desc": "", "mode": "rw", "define":
{"type": "string", "min": "0", "max": "2048"}, "required": false}], "events":
[{"id": "status_report", "name": "DeviceStatus", "desc": "Report the device
status", "type": "info", "required": false, "params":
[{"id": "status", "name": "running_state", "desc": "Report current device
running state", "define": {"type": "bool", "mapping":
{"0": "normal", "1": "fault"}}}],
{"id": "message", "name": "Message", "desc": "Some extra message", "define":
{"type": "string", "min": "0", "max": "64"}]},
{"id": "low_voltage", "name": "LowVoltage", "desc": "Alert for device voltage
is low", "type": "alert", "required": false, "params":
[{"id": "voltage", "name": "Voltage", "desc": "Current voltage", "define":
{"type": "float", "unit": "V", "step": "1", "min": "0.0", "max": "24.0", "start": "
1"}]}, {"id": "hardware_fault", "name": "Hardware_fault", "desc": "Report
hardware fault", "type": "fault", "required": false, "params":
[{"id": "name", "name": "Name", "desc": "Name like: memory,tf card,
sensors...", "define": {"type": "string", "min": "0", "max": "64"}},
{"id": "error_code", "name": "Error_Code", "desc": "Error code for
fault", "define":
{"type": "int", "unit": "", "step": "1", "min": "0", "max": "2000", "start": "1"}]}
]], "actions": []}
    "AppTemplate": "",
    "NetType": "else",
    "CategoryId": 141,
    "ProductType": 0,
    "UpdateTime": 1600265188
  }
],
  "RequestId": "27HPvi1ylv"
}
}

```

5. Error Code

Error Code	Description
InternalError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

User Deletes Device

Last updated: 2025-04-30 15:30:34

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppDeleteDeviceInFamily) provides users with the feature to delete devices. After deletion, users need to reconfigure the network to proceed to bind.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter, AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter, unique request ID, can be generated manually, uuid is recommended for use. Locating issues, need to provide the RequestId for the request.
Action	String	Yes	Common parameter, this interface takes values: AppDeleteDeviceInFamily.
FamilyId	String	Yes	Family ID, returned after successful creation of a family.
RoomId	String	Yes	room ID.
ProductId	String	Yes	product ID.
DeviceName	String	Yes	Device name.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter, unique request ID, can be generated manually, uuid is recommended for use. Locating issues, need to provide the RequestId for the request.

4. Example

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "42a96dbf-bdca-48f0-8f44-e36146d44e17",
  "Action": "AppDeleteDeviceInFamily",
  "AccessToken": "bf*****d098",
  "FamilyId": "1",
  "ProductId": "R32ONVLOEU",
  "DeviceName": "df2eSJyY"
}
```

Output example: successful

```
{
  "Response": {
    "RequestId": "42a96dbf-bdca-48f0-8f44-e36146d44e17"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Getting User Bound Device List

Last updated: 2025-04-30 15:30:50

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppGetFamilyDeviceList) is used to obtain the bound device list of the user.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppGetFamilyDeviceList.
FamilyId	String	Yes	Family ID.
RoomId	String	Yes	room ID.
Offset	Int	No	Message offset.
Limit	Int	No	Maximum return message count, with a maximum value of 50.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.

Total	Int	Total number of devices.
DeviceList	Array	Device list, see DeviceList .

4. Example

input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppGetFamilyDeviceList",
  "FamilyId": "e0e23a2b33a24652b6*****a1cf",
  "RoomId": "5", //If you want to get all devices in the family, set
this field to "", "0" stands for the default room.
  "Offset": 0,
  "Limit": 2,
  "AccessToken": "bf*****d098"
}
```

Output Instance

```
{
  "Response": {
    "DeviceList": [{
      "ProductId": "R32*****EU",
      "DeviceName": "df2eSJyY",
      "DeviceId": "R32****0EU/df****yY",
      "AliasName": "df2eSJyY",
      "UserID": "1",
      "RoomId": "r_4b27c753ef774d458e*****86ad",
      "IconUrl": "",
      "CreateTime": 1574664969,
      "UpdateTime": 1574668779
    }],
    "RequestId": "req_1",
    "Total": 1
  }
}
```

```
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal Error
InvalidParameterValue	Parameter value error
InvalidParameterValue.InvalidAccessToken	Token invalid

Get Current Device Status

Last updated: 2025-04-30 15:31:04

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppGetDeviceStatuses) is used to query device status.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppGetDeviceStatuses.
DeviceIds	Array of String	Yes	Device ID array.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Devices	Array of Devices	Return the device.

4. Examples

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
```

```
content-type: application/json
{
  "RequestId": "892497d8-a733-480b-91d5-5559c6b49551",
  "Action": "AppGetDeviceStatuses",
  "DeviceIds": ["HY4DHFM5P6/81386276"],
  "AccessToken": "6bf4003d7f*****400f3186f"
}
```

Output example: success

```
{
  "Response": {
    "DeviceStatuses": [{
      "DeviceId": "22F9Y6II70/light1",
      "ProductId": "22F9Y6II70",
      "DeviceName": "light1",
      "Online": 0 //0 Online; 1: Offline
    }],
    "RequestId": "892497d8-a733-480b-91d5-5559c6b49551"
  }
}
```

5. Error Code

Error Code	Description
InternalError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Modifying Device Name

Last updated: 2025-04-30 15:31:20

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppUpdateDeviceInFamily) is used to modify the device name.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppUpdateDeviceInFamily.
ProductId	String	Yes	product ID.
DeviceName	String	Yes	Device name.
AliasName	String	Yes	Device alias.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
DeviceId	String	Device ID.
ProductId	String	product ID.

DeviceName	String	Device name.
AliasName	String	Device alias.
IconUrl	String	Icon URL.
FamilyId	String	Family ID.
RoomId	String	Room ID.
CreateTime	Int64	Creation time.
UpdateTime	Int64	Update time.

4. Example

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "641150a3-4238-430d-888b-c01b11298351",
  "Action": "AppUpdateDeviceInFamily",
  "AccessToken": "xxxv2",
  "ProductId": "VZS14OZSN5",
  "DeviceName": "~virtualDev",
  "AliasName": "12345"
}
```

Output sample: successful

```
{
  "Response": {
    "Data": {
      "DeviceId": "R32ONVL0EU/df2eSJyY",
      "ProductId": "R32ONVL0EU",
      "DeviceName": "df2eSJyY",
      "AliasName": "12345",
    }
  }
}
```

```
    "IconUrl": "",
    "FamilyId": "",
    "RoomId": 0,
    "CreateTime": 1574859101,
    "UpdateTime": 1574859144
  },
  "RequestId": "641150a3-4238-430d-888b-c01b11298351"
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Obtain Device Details

Last updated: 2025-04-30 15:31:35

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppGetDeviceInFamily) is used to query device details.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppGetDeviceInFamily.
ProductId	String	Yes	product ID.
FamilyId	String	Yes	Family ID.
DeviceName	String	Yes	Device name.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
DeviceId	String	Device ID is a combination of product ID and device name.

ProductId	String	product ID.
DeviceName	String	Device name.
AliasName	String	Device alias.
IconUrl	String	Icon URL.
FamilyId	String	Family ID.
RoomId	String	Room ID.
CreateTime	Int64	Creation time, UNIX second-level timestamp.
UpdateTime	Int64	Last update time, UNIX second-level timestamp.

4. Example

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "082b70e-3d05-4179-9c94-6c70082e4a7",
  "Action": "AppGetDeviceInFamily",
  "ProductId": "R32ONVL0EU",
  "FamilyId": "xxx",
  "DeviceName": "df2eSJyY",
  "AccessToken": "xxxv2"
}
```

Output sample: successful

```
{
  "Response": {
    "Data": {
      "DeviceId": "R32ONVL0EU/df2eSJyY",
      "ProductId": "R32ONVL0EU",
      "DeviceName": "df2eSJyY",
    }
  }
}
```

```
"AliasName": "12345",
"IconUrl": "",
"FamilyId": "",
"RoomId": "",
"DeviceType": 0, // 0 Ordinary 1 Gateway device 2 Subdevice
"CreateTime": 1574931773,
"UpdateTime": 1574931945
},
"RequestId": "082b70e-3d05-4179-9c94-6c70082e4a7"
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
UnauthorizedOperation	No permission to operate.
UnauthorizedOperation.APPNoPermissionToStudioProduct	The App has no permission to operate this product.
ResourceNotFound	The resource does not exist.
ResourceNotFound.StudioMemberNotExist	The family member is not created or has been deleted.

Retrieve Device Scale-Out Information

Last updated: 2025-04-30 15:31:51

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppGetDeviceExtInfo) is used to obtain the extended information of the device.

2. Input Parameter

Name	Type	Required	Description
Access Token	String	Yes	common parameter, AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	common parameter, unique request ID, can be generated manually, recommended for use uuld. Locating issues, need to provide the RequestId for the request.
Action	String	Yes	common parameter, this interface takes values: AppGetDeviceExtInfo.
DeviceId	String	Yes	Device ID.

3. Output Parameter

Name	Type	Description
RequestId	String	common parameter, unique request ID, can be generated manually, recommended for use uuld. Locating issues, need to provide the RequestId for the request.
ManufacturerName	String	Manufacturer Name.
ProductModel	String	Product model.

Mac	String	MAC address in Basic Information Reported by Device .
FwVer	String	Firmware version in Basic Information Reported by Device .
IP	String	The IP address of the device.

4. Example

Example 1

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "584406e9-bf59-46a3-8d45-39f1891bed7b",
  "Action": "AppGetDeviceExtInfo",
  "DeviceId": "PR*****ID/de***01",
  "AccessToken": "871d2d42*****692afae0"
}
```

Output example: successful

```
{
  "RequestId": "584406e9-bf59-46a3-8d45-39f1891bed7b",
  "ManufacturerName": "Manufacturer Name"
  "ProductModel": "product model"
  "Mac": "AABBCCDDEEFF",
  "FwVer": "1.2.0",
  "IP": ""
}
```

5. Error Code

Error Code	Description
InternalError	An internal error occurred.

InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Equipment Replacement Room

Last updated: 2025-04-30 15:32:06

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppModifyFamilyDeviceRoom) is for Equipment Replacement Room.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppModifyFamilyDeviceRoom.
FamilyId	String	Yes	Family ID.
RoomId	String	Yes	Room ID.
ProductId	String	Yes	Product ID.
DeviceName	String	Yes	Device name.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid.

When locating issues, you need to provide the RequestId for the request.

4. Example

Example 1

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreroopen/tokenapi HTTP/1.1
content-type: application/json
```

```
{
  "RequestId": "8c012671-3934-4dc2-b07c-82c5ba3766f2",
  "Action": "AppModifyFamilyDeviceRoom",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec",
  "FamilyId": "1",
  "RoomId": "r_4b27c753ef774d458e*****86ad",
  "ProductId": "R32****0EU",
  "DeviceName": "df2eSJyY"
}
```

Output example: succeed

```
{
  "Response": {
    "RequestId": "8c012671-3934-4dc2-b07c-82*****766f2"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Add Sub-Device to User'S Bound List

Last updated: 2025-04-30 15:32:21

1. API Description

API request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppBindSubDeviceInFamily) is used to bind a sub-device that has been bound to a gateway device to a family.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppBindSubDeviceInFamily.
GatewayProductId	String	Yes	Gateway product ID.
GatewayDeviceName	String	Yes	Gateway device name.
ProductId	String	Yes	Sub-product ID.
DeviceName	String	Yes	Subdevice name.

3. Output Parameters

Name	Type	Description
------	------	-------------

RequestId	String	Common parameter. Unique request ID, same as the input parameter. When locating issues, provide the RequestId for the request.
AppDeviceInfo	Object of AppDeviceInfo	Returned result

4. Example

Example 1

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "keyi20191119-012345",
  "Action": "AppBindSubDeviceInFamily",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec",
  "ProductId": "LAEG4YJE1A",
  "DeviceName": "subdev2",
  "GatewayProductId": "NJ27OVLZT4",
  "GatewayDeviceName": "gwdev"
}
```

Output example: successful

```
{
  "Response": {
    "Data": {
      "AppDeviceInfo": {
        "DeviceId": "R32ONVL0EU/df2eSJyY",
        "ProductId": "R32ONVL0EU",
        "DeviceName": "df2eSJyY",
        "AliasName": "",
        "IconUrl": "",
        "FamilyId": "1",
        "RoomId": "0",
        "CreateTime": 1574152773,
        "UpdateTime": 1574152773
      }
    }
  }
}
```

```
    }  
  },  
  "RequestId": "keyi20191119-012345"  
}  
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Get the Sub-Device List of the Designated Gateway Device

Last updated: 2025-04-30 15:32:35

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

this interface (AppGetGatewayBindDeviceList) is used to obtain the sub-device list of the designated gateway device.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppGetGatewayBindDeviceList.
ProductId	String	Yes	Subdevice's ProductId.
GatewayProductId	String	Yes	ProductId of the gateway device.
GatewayDeviceName	String	Yes	DeviceName of the gateway device.
Offset	Int	Yes	Message offset.
Limit	Int	Yes	Maximum return message count, with a maximum value of 50.

3. Output Parameters

Name	Type	Description
------	------	-------------

RequestId	String	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, provide the RequestId for the request.
Total	String	Total number.
DeviceList	Array of DeviceList	Device list.

4. Example

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppGetGatewayBindDeviceList",
  "ProductId": "LAEG4YJE1A" // Subdevice's productId
  "GatewayProductId": "NJ27OVLZT4", //gateway device's productId
  GatewayDeviceName: gwdev // deviceName of the gateway device
  "Offset": 0,
  "Limit": 2,
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec"
}
```

Output example

```
{
  "Response": {
    "DeviceList": [{
      "ProductId": "LAEG4YJE1A",
      "DeviceName": "subdev2"
      "DeviceId": "LAEG4YJE1A/subdev2", //subdevice's deviceId
      "AliasName": "",
      "IconUrl": "",
      "BindStatus": 0 //not bound to family
    }, {
      "ProductId": "LAEG4YJE1A",
      "DeviceName": "subdev1",
```

```

        "DeviceId": "LAEG4YJE1A/subdev1",
        "AliasName": "",
        "IconUrl": "",
        "BindStatus": 1 //already bound to family
    }],
    "RequestId": "req_1",
    "Total": 2
}
}

```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InternalServerError.InternalRPCError	Call timeout.
InternalServerError.InternalRPCError	The call returned failure.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	Token invalid.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.NotSupportVirtualDevice	Virtual devices are not supported.
UnsupportedOperation.DeviceNotGateway	Not a gateway device.
ResourceNotFound	The resource does not exist.
ResourceNotFound.DeviceNotExist	The device is not created or has been deleted.
ResourceNotFound.StudioMemberNotExist	Family members are not created or have been deleted.

Get the Sub-Device List of the Specified Gateway Bound to the Family

Last updated: 2025-04-30 15:32:52

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreroopen/tokenapi`.

This interface (AppGetFamilySubDeviceList) is used to obtain the sub-device list of gateways under a family.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppGetFamilySubDeviceList.
GatewayProductId	String	Yes	Gateway device product ID.
GatewayDeviceName	String	Yes	Gateway device Name.
Offset	Int	Yes	Message offset.
Limit	Int	Yes	Maximum return message count, with a maximum value of 50.

3. Output Parameter

Name	Type	Description
------	------	-------------

RequestId	String	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Total	String	Total number.
DeviceList	Array of DeviceList	Device List.

4. Samples

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppGetFamilySubDeviceList",
  "GatewayProductId": "NJ27OVLZT4",
  "GatewayDeviceName": "gwdev",
  "Offset": 0,
  "Limit": 2,
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec"
}
```

Output example

```
{
  "Response": {
    "DeviceList": [{
      "FamilyId": "f_9b309d84c962****0a11b4c3d9588fcc1",
      "ProductId": "LAEG4YJE1A",
      "DeviceName": "subdev1",
      "DeviceId": "LAEG4YJE1A/subdev1",
      "AliasName": "",
      "RoomId": "0",
      "IconUrl": "",
      "DeviceType": 2,
      "CreateTime": 1583492992,
      "UpdateTime": 1583492992
    }
  ]
}
```

```
    }],  
    "RequestId": "req_1",  
    "Total": 1  
  }  
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InternalServerError.InternalRPCError	Call timeout.
InternalServerError.InternalRPCError	The call returned failure.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.NoPermission	The user has no permission to this device.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.ERR_APP_INVALID_IOTAPPID	The AppId is invalid. lotAppID.
ResourceNotFound	The resource does not exist.
ResourceNotFound.DeviceNotExist	The device is not created or has been deleted.

Bluetooth Data Reporting

Last updated: 2025-04-30 15:33:06

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppReportDataAsDevice) is used for data reporting by mini programs or apps.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues requires providing the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppReportDataAsDevice.
DeviceId	String	Yes	Device ID.
Data	String	Yes	Modified model data.
Timestamp	Int64	Yes	Unix millisecond-level timestamp.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues requires providing the RequestId for the request.
Data	String	Returned data information.

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "123e4567-e89b-12d3-a456-426614174000",
  "Action": "AppReportDataAsDevice",
  "DeviceId": "22*****O/light1",
  "Data": "{\"light_switch\":0}",
  "TimeStamp": 1581422682000,
  "AccessToken": "8b4a70dd16*****2826868b18edd4e78a3bb8ec"
}
```

Output example: succeed

```
{
  "Response": {
    "Data": "",
    "RequestId": "123e4567-e89b-12d3-a456-426614174000"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.BindDeviceNotConnected	The device has not connected to the cloud recently.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Bluetooth Device Sends Reply Messages for Device Behavior

Last updated: 2025-04-30 15:33:19

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppPublishMsgAsDevice) provides the message reply feature for mini programs or apps to simulate device behavior.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppPublishMsgAsDevice.
ProductId	String	Yes	product ID.
DeviceName	String	Yes	Device name.
Topic	String	Yes	Reporting Topic.
Payload	String	Yes	Message content.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid.

Locating issues, you need to provide the RequestId for the request.

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "123e4567-e89b-12d3-a456-426614174000",
  "Action": "AppPublishMsgAsDevice",
  "ProductId": "22*****O",
  "DeviceName": "light1",
  "Topic": "$thing/up/action/22*****O/light1"
  "Payload": "e1wibGlnaHRfc3dpdGN0XCI6MH0="
  "AccessToken": "8b4a70dd16*****2826868b18edd4e78a3bb8ec"
}
```

Output sample: successful

```
{
  "Response": {
    "RequestId": "123e4567-e89b-12d3-a456-426614174000"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Parameter value error.
InvalidParameterValue.BindDeviceNotConnected	The device has not connected to the cloud recently.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Bluetooth Device Reporting Event

Last updated: 2025-04-30 15:33:33

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppReportDeviceEvent) is used for bluetooth devices to report events through App or mini program.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppReportDeviceEvent.
DeviceId	String	Yes	Device ID, composed of ProductId/DeviceName.
EventId	String	Yes	Event ID.
Params	String	Yes	Event parameter in JSON format.
Method	String	Yes	Reporting method, can be ReportEventAsDevice or reported (default).
EventTimeStamp	Int64	Yes	Unix millisecond-level timestamp.

3. Output Parameters

Name	Type	Description
------	------	-------------

RequestId	String	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, provide the RequestId for the request.
-----------	--------	--

4. Examples

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "123e4567-e89b-12d3-a456-426614174000",
  "Action": "AppReportDeviceEvent",
  "DeviceId": "QD***BNB/dev01",
  "EventId": "low_voltage",
  "Params": "{\"voltage\":3.1}",
  "Method": "ReportEventAsDevice",
  "AccessToken": "ningtoken*****"
}
```

Output sample: successful

```
{
  "Response": {
    "Data": "",
    "RequestId": "123e4567-e89b-12d3-a456-426614174000"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.BindDeviceNotConnected	The device has not connected to the cloud recently.

InvalidParameterValue.InvalidAccess Token	The Token is invalid.
--	-----------------------

Network Configuration Binding Device

Last updated: 2025-04-30 15:33:53

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppSigBindDeviceInFamily) is used for mini programs or apps to perform binding operations for Wi-Fi device networking.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppSigBindDeviceInFamily.
FamilyId	String	Yes	Family ID.
ProductId	String	Yes	Product ID.
DeviceName	String	Yes	Device name.
RoomId	String	No	Room ID.
DeviceTimestamp	Int64	Yes	Device timestamp, Unix second-level timestamp.
ConnId	String	No	Random string, recommend 5 bytes length.
Signature	String	Yes	Dynamic signature, a signature transmitted to the mini program and App by the device according to the Distribution Network Protocol. For calculation example, see below.

BindType	String	Yes	Binding type. <ul style="list-style-type: none"> wifi_sign: WIFI binding (default). bluetooth_sign: Bluetooth binding. other_sign: Other.
SignMethod	String	No	Signature algorithm. <ul style="list-style-type: none"> hmacsha1: HMACSHA1 encryption algorithm (default). hmacsha256: HMACSHA256 encryption algorithm.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
AppDeviceInfo	Object of AppDeviceInfo	Equipment information.

4. Dynamic Signature Calculation

Procedure for calculating signature

1. Confirm whether it is WIFI configuration, Bluetooth configuration, or other configurations. The concatenation of plaintext strings that need encryption varies slightly.
2. Obtain the psk of the device, which can be viewed in the console or obtained via API.
3. Decode the psk through base64 and use it as the key of the hash to encode the plaintext.
4. Just concatenate the result of the hash into a hexadecimal string.

The steps for calculating the signature for WIFI binding are the same as those for Bluetooth or other bindings. The only difference is the concatenation of the plaintext for encryption. For details, see the example code.

WIFI Network Configuration Binding Signature

Plaintext concatenation format: `"DeviceName=%s&DeviceTimestamp=%d&ProductId=%s&ConnId=%s"`

Java

```
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import java.util.Base64;

public class AppBind {
    private static final String HMAC_SHA1_ALGORITHM = "HmacSHA1";
    private static final String HMAC_SHA256_ALGORITHM = "HmacSHA256";
    public static final String DEVICE_PSK = "4B***==";
    public static final String PRODUCT_ID = "productId";
    public static final String DEVICE_NAME = "d1";
    public static final String CONN_ID = "12345";
    public static final int TIMESTAMP = 1694141664;
    public static final String ContentFormat =
"DeviceName=%s&DeviceTimestamp=%d&ProductId=%s&ConnId=%s";

    public static void main(String[] args) throws Exception {
        String content = String.format(ContentFormat, DEVICE_NAME,
TIMESTAMP, PRODUCT_ID, CONN_ID);
        // sha1
        System.out.println(calculateHMACSHA1(content,
Base64.getDecoder().decode(DEVICE_PSK)));
        // sha256
        System.out.println(calculateHMACSHA256(content,
Base64.getDecoder().decode(DEVICE_PSK)));
    }

    // Calculate sha1 signature
    public static String calculateHMACSHA1(String data, byte[] keyBytes)
throws Exception {
        SecretKeySpec signingKey = new SecretKeySpec(keyBytes,
HMAC_SHA1_ALGORITHM);
        Mac mac = Mac.getInstance(HMAC_SHA1_ALGORITHM);
        mac.init(signingKey);
        byte[] dataBytes = data.getBytes();
        byte[] signatureBytes = mac.doFinal(dataBytes);

        return bytesToHex(signatureBytes);
    }
}
```

```
// Calculate sha256 signature
public static String calculateHMACSHA256(String data, byte[]
keyBytes) throws Exception {
    SecretKeySpec signingKey = new SecretKeySpec(keyBytes,
HMAC_SHA1_ALGORITHM);
    Mac mac = Mac.getInstance(HMAC_SHA256_ALGORITHM);
    mac.init(signingKey);
    byte[] dataBytes = data.getBytes();
    byte[] signatureBytes = mac.doFinal(dataBytes);

    return bytesToHex(signatureBytes);
}

private static String bytesToHex(byte[] bytes) {
    StringBuilder builder = new StringBuilder();
    for (byte b : bytes) {
        builder.append(String.format("%02x", b));
    }

    return builder.toString();
}
}
```

Go

```
import (
    "crypto/hmac"
    "crypto/sha1"
    "encoding/base64"
    "encoding/hex"
    "fmt"
    "hash"
)

var (
    devicePsk = "Re****Q=="
    contentFmt = "DeviceName=%s&DeviceTimestamp=%d&ProductId=%s&ConnId=%s"
)
```

```
func main() {
    fmt.Println(getSign("deviceName", "productId", "connId",
1693898532))
}

// Get sha1 signature
func getSha1Sign() string {
    psk, _ := base64.StdEncoding.DecodeString(devicePsk)
    var mac hash.Hash
    mac = hmac.New(sha1.New, psk)
    mac.Write([]byte(contentFmt))
    result := mac.Sum(nil)

    return hex.EncodeToString(result)
}

// Get sha256 signature
func getSha256Sign() string {
    psk, _ := base64.StdEncoding.DecodeString(devicePsk)
    var mac hash.Hash
    mac = hmac.New(sha256.New, psk)
    mac.Write([]byte(contentFmt))
    result := mac.Sum(nil)

    return hex.EncodeToString(result)
}
```

C

```
#include <stdio.h>
#include <string.h>
#include <openssl/hmac.h>

const char *devicePsk = "Re5***==";
const char *contentFmt =
"DeviceName=%s&DeviceTimestamp=%ld&ProductId=%s&ConnId=%s";

char *getSign(char *deviceName, char *productId, char *connId, long
deviceTimestamp);
```

```
int main() {
    printf("%s\n", getSign("d1", "BRS**F", "9102344", 1693898532));
    return 0;
}

char *getSign(char *deviceName, char *productId, char *connId, long
deviceTimestamp) {
    unsigned char psk[16];
    int psk_len = EVP_DecodeBlock(psk, devicePsk, strlen(devicePsk));
    printf("%s\n", psk);

    char content[256];
    sprintf(content, contentFmt, deviceName, deviceTimestamp, productId,
connId);
    printf("%s\n", content);

    unsigned char result[20];
    unsigned int result_len;
    HMAC(EVP_sha1(), psk, psk_len, (unsigned char *) content,
strlen(content), result, &result_len);

    char *hexResult = malloc(result_len * 2 + 1);
    for (int i = 0; i < result_len; i++) {
        sprintf(hexResult + i * 2, "%02X", result[i]);
    }
    hexResult[result_len * 2] = '\0';
    return hexResult;
}
```

Bluetooth and Other Network Configuration Binding Signatures

Plaintext concatenation format: "%s%s;%s;%d". The fields are ProductId, DeviceName, ConnId, DeviceTimestamp in sequence.

Java

```
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
```

```
import java.util.Base64;

public class AppBind {
    private static final String HMAC_SHA1_ALGORITHM = "HmacSHA1";
    private static final String HMAC_SHA256_ALGORITHM = "HmacSHA256";
    public static final String DEVICE_PSK = "4B****==";
    public static final String PRODUCT_ID = "productId";
    public static final String DEVICE_NAME = "d1";
    public static final String CONN_ID = "12345";
    public static final int TIMESTAMP = 1694141664;
    public static final String ContentFormat = "%s%s;%s;%d"; //
    ProductId;DeviceName;ConnId;DeviceTimestamp

    public static void main(String[] args) throws Exception {
        String content = String.format(ContentFormat,PRODUCT_ID,
        DEVICE_NAME, CONN_ID, TIMESTAMP);
        // sha1
        System.out.println(calculateHMACSHA1(content,
        Base64.getDecoder().decode(DEVICE_PSK)));
        // sha256
        System.out.println(calculateHMACSHA256(content,
        Base64.getDecoder().decode(DEVICE_PSK)));
    }

    // Calculate sha1 signature
    public static String calculateHMACSHA1(String data, byte[] keyBytes)
    throws Exception {
        SecretKeySpec signingKey = new SecretKeySpec(keyBytes,
        HMAC_SHA1_ALGORITHM);
        Mac mac = Mac.getInstance(HMAC_SHA1_ALGORITHM);
        mac.init(signingKey);
        byte[] dataBytes = data.getBytes();
        byte[] signatureBytes = mac.doFinal(dataBytes);

        return bytesToHex(signatureBytes);
    }

    // Calculate sha256 signature
    public static String calculateHMACSHA256(String data, byte[]
    keyBytes) throws Exception {
```

```
    SecretKeySpec signingKey = new SecretKeySpec(keyBytes,
    HMAC_SHA1_ALGORITHM);
    Mac mac = Mac.getInstance(HMAC_SHA256_ALGORITHM);
    mac.init(signingKey);
    byte[] dataBytes = data.getBytes();
    byte[] signatureBytes = mac.doFinal(dataBytes);

    return bytesToHex(signatureBytes);
}

private static String bytesToHex(byte[] bytes) {
    StringBuilder builder = new StringBuilder();
    for (byte b : bytes) {
        builder.append(String.format("%02x", b));
    }

    return builder.toString();
}
}
```

Go

```
import (
    "crypto/hmac"
    "crypto/sha1"
    "encoding/base64"
    "encoding/hex"
    "fmt"
    "hash"
)

var (
    devicePsk          = "Re****=="
    ProductId          = "productId"
    DeviceName         = "d1"
    ConnId             = "12345"
    DeviceTimestamp int64 = 1694141664
    contentFmt         = fmt.Sprintf("%s%s;%s;%d", ProductId,
    DeviceName, ConnId, DeviceTimestamp) //
```

```

ProductId;DeviceName;ConnId;DeviceTimestamp)
func main() {
    fmt.Println(getSign())
}
func getSign() string {
    psk, _ := base64.StdEncoding.DecodeString(devicePsk)
    var mac hash.Hash
    mac = hmac.New(sha1.New, psk)
    mac.Write([]byte(contentFmt))
    result := mac.Sum(nil)

    return hex.EncodeToString(result)
}

```

C

```

#include <stdio.h>
#include <string.h>
#include <openssl/hmac.h>

const char *devicePsk = "Re5***==";
const char *contentFmt = "%s%s;%s;%d"; //
ProductId;DeviceName;ConnId;DeviceTimestamp

char *getSign(char *deviceName, char *productId, char *connId, long
deviceTimestamp);

int main() {
    printf("%s\n", getSign("d1", "BRS**F", "9102344", 1693898532));
    return 0;
}

char *getSign(char *deviceName, char *productId, char *connId, long
deviceTimestamp) {
    unsigned char psk[16];
    int psk_len = EVP_DecodeBlock(psk, devicePsk, strlen(devicePsk));
    printf("%s\n", psk);

    char content[256];

```

```

    sprintf(content, contentFmt, productId, deviceName, connId,
deviceTimestamp);
    printf("%s\n", content);

    unsigned char result[20];
    unsigned int result_len;
    HMAC(EVP_sha1(), psk, psk_len, (unsigned char *) content,
strlen(content), result, &result_len);

    char *hexResult = malloc(result_len * 2 + 1);
    for (int i = 0; i < result_len; i++) {
        sprintf(hexResult + i * 2, "%02X", result[i]);
    }
    hexResult[result_len * 2] = '\0';

    return hexResult;

```

5. Example

Default WIFI Network Configuration Binding request input example 1:

```

POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
    "DeviceTimestamp": 1694141664,
    "Action": "AppSigBindDeviceInFamily",
    "ConnId": "1938",
    "RequestId": "dd7b-1014bc4-rey76",
    "AccessToken": "51dbxxx4d4fdb",
    "FamilyId": "f_8xxxxfb1a",
    "Signature": "7CE3518***69EA8C",
    "ProductId": "productId",
    "RoomId": ""
    "BindType": "wifi_sign",
    "DeviceName": "d1"
}

```

Default WIFI Network Configuration Binding request input example 2:

```

POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1

```

```
content-type: application/json
{
  "DeviceTimestamp": 1694141664,
  "Action": "AppSigBindDeviceInFamily",
  "ConnId": "1938",
  "RequestId": "dd7b-1014bc4-rey76",
  "AccessToken": "51dbxxx4d4fdb",
  "FamilyId": "f_8xxxxfb1a",
  "Signature": "7CE3518***69EA8C",
  "ProductId": "productId",
  "RoomId": ""
  "BindType": "wifi_sign",
  "SignMethod": "hmacsha256",
  "DeviceName": "d1"
}
```

Default Bluetooth Network Configuration Binding Request Input Example 3:

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "DeviceTimestamp": 1694141664,
  "Action": "AppSigBindDeviceInFamily",
  "ConnId": "1938",
  "RequestId": "dd7b-1014bc4-rey76",
  "AccessToken": "51dbxxx4d4fdb",
  "FamilyId": "f_8xxxxfb1a",
  "Signature": "7CE3518***69EA8C",
  "ProductId": "productId",
  "RoomId": ""
  "BindType": "bluetooth_sign",
  "DeviceName": "d1"
}
```

Default Bluetooth Network Configuration Binding request input example 4:

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
```

```
"DeviceTimestamp": 1694141664,
"Action": "AppSigBindDeviceInFamily",
"ConnId": "1938",
"RequestId": "dd7b-1014bc4-rey76",
"AccessToken": "51dbxxx4d4fdb",
"FamilyId": "f_8xxxxfb1a",
"Signature": "7CE3518***69EA8C",
"ProductId": "productId",
"RoomId": ""
"BindType": "bluetooth_sign",
"SignMethod": "hmacsha256",
"DeviceName": "d1"
}
```

Output sample: Success.

```
{
  "Response": {
    "RequestId": "req_1",
    "data": {
      "AppDeviceInfo": {
        "DeviceId": "45454/d2",
        "ProductId": "45454",
        "DeviceName": "d2",
        "AliasName": "",
        "CreateTime": 1552910676,
        "UpdateTime": 1552910676,
        "FamilyId": "1",
        "RoomId": "0",
        "IconUrl": ""
      }
    }
  }
}
```

5. Error Code

Error Code	Description
------------	-------------

InternalError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.BindDeviceNotConnected	The device has not connected to the cloud recently.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Bind Sub-Device to Gateway

Last updated: 2025-04-30 15:34:21

1. API Description

api request domain name: api request domain name replacement

this interface (AppSigGatewayBindDevice) binds a sub-device to a gateway device

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppSigGatewayBindDevice.
ProductId,	String	Yes	Product ID.
DeviceName	String	Yes	Device name.
GatewayProductId	String	Yes	Gateway product ID.
GatewayDeviceName	String	Yes	Gateway device Name.
DeviceTimestamp	Int64	Yes	Device timestamp, Unix second-level timestamp.
Nonce	String	Yes	Random string, recommend 5 bytes length.
Signature	String	Yes	Dynamic Signature.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.

4. Samples

Signature generation procedure:

1. Sort the (deviceName, nonce, productId, timestamp) parameters in ascending lexicographical order.
2. Concatenate the above parameters into strings in the form of parameter name = parameter value & parameter name = parameter value.
3. Use the HMAC-sha1 algorithm to calculate the string obtained in the previous step. The key is ProductSecret.
4. Encode the generated result using Base64, and you can obtain the final signature string to put into signature.

Example 1

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "zzY1pZb3sz1N",
  "Action": "AppSigGatewayBindDevice",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec",
  "GatewayProductId": "NJ27OVLZT4",
  "GatewayDeviceName": "gwdev",
  "ProductId": "LAEG4YJE1A",
  "DeviceName": "subdev3",
  "DeviceTimestamp": 1583810805,
  "Nonce": "123456",
  "Signature": "YZGf0E***WGUEJGn+SxUf23HYA="
}
```

Output example: Success

```

{
  "Response": {
    "RequestId": "zzY1pZb3sz1N"
  }
}

```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InternalServerError.InternalServerError	An error occurs.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.BindDeviceNotConnected	The device has not connected to the cloud recently.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.InvalidAppParameter	The App's request has invalid parameters.
InvalidParameterValue.BindDeviceSigMismatch	Dynamic signature error when binding device.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.NotBindVirtualDevice	Unable to bind virtual device.
UnsupportedOperation.DeviceType	Device type error.
ResourceNotFound	The resource does not exist.
ResourceNotFound.StudioProductNotExist	The product is not created or has been deleted.
ResourceNotFound.DeviceNotExist	The device is not created or has been deleted.
ResourceNotFound.AppNotExists	The application is not created or has been deleted.
UnauthorizedOperation	No permission to operate.

UnauthorizedOperation.APPNoPermissionToStudioProduct	The App has no permission to operate this product.
UnauthorizedOperation.NoPermissionToFamily	No permission to operate this family.
LimitExceeded	Exceed the limit.
LimitExceeded.FamilyDeviceExceedLimit	The device quantity exceeds the limit.

Unbind Sub-Device Gateway

Last updated: 2025-04-30 15:34:35

1. API Description

api request domain name: api request domain name replacement

this interface (AppGatewayUnbindDevice) unbinds a sub-device from the gateway

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppGatewayUnbindDevice.
ProductId,	String	Yes	Product ID.
DeviceName	String	Yes	Device name.
GatewayProductId	String	Yes	Gateway product ID.
GatewayDeviceName	String	Yes	Gateway device Name.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.

4. Samples

Example 1

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "zzY1pZb3sz1N",
  "Action": "AppGatewayUnbindDevice",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec",
  "GatewayProductId": "NJ****T4",
  "GatewayDeviceName": "gwdev",
  "ProductId": "LA*****1A",
  "DeviceName": "dev"
}
```

Output example: successful

```
{
  "Response": {
    "RequestId": "zzY1pZb3sz1N"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InternalServerError.InternalServerError	An error occurs.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.BindDeviceNotConnected	The device has not connected to the cloud recently.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.InvalidAppParameter	Wrong parameters in the App request.
InvalidParameterValue.BindDeviceSigMismatch	Error in dynamic signature for binding

tch	device.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.NotBindVirtualDevice	Unable to bind virtual device.
UnsupportedOperation.DeviceType	Error in device type.
ResourceNotFound	The resource does not exist.
ResourceNotFound.StudioProductNotExist	The product is not created or has been deleted.
ResourceNotFound.DeviceNotExist	The device is not created or has been deleted.
ResourceNotFound.AppNotExists	The application is not created or has been deleted.
UnauthorizedOperation	No permission to operate.
UnauthorizedOperation.APPNoPermissionToStudioProduct	The App has no permission to operate this product.
UnauthorizedOperation.NoPermissionToFamily	No permission to operate this family.
LimitExceeded	Exceed the limit.
LimitExceeded.FamilyDeviceExceedLimit	Device quantity exceeds the limit.

Device Control

User Control Device

Last updated: 2025-04-30 15:35:01

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppControlDeviceData) is used for users to initiate control operations on bound devices.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppControlDeviceData.
ProductId	String	Yes	product ID.
DeviceName	String	Yes	Device name.
Data	String	Yes	Control device message.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, provide the RequestId for the request.
Data	String	Return data.

4. Example

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "req_1",
  "AppId": 1111,
  "Action": "AppControlDeviceData",
  "ProductId": "22F9Y6II70",
  "DeviceName": "light1",
  "Data": "{\"light_switch\":0}",
  "AccessToken": "8b*****b8ec"
}
```

Output sample: successful

```
{
  "Response": {
    "Data": "",
    "RequestId": "req_1"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Sync Calling Device Behavior

Last updated: 2025-04-30 15:35:15

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppCallDeviceActionSync) is used for users to initiate synchronous behavior invocation to successfully bound devices.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, provide the RequestId for the request.
Action	String	Yes	AppCallDeviceActionSync
ProductId	String	Yes	Product ID.
DeviceName	String	Yes	Device name.
ActionId	String	Yes	The identifier of the behavior function, ActionId, is defined in the behavior of the product Thing Model.
InputParams	String	No	Input parameter.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, provide the RequestId for the request.

ClientToken	String	Call ID.
Status	String	Return status.
OutputParams	String	Output Parameter. This field may return null, indicating that no valid value was obtained.

4. Samples

Example 1

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "AccessToken": "accesstoken*****acc",
  "RequestId": "026fe48b-0c31-4a7c-aaf6-83ba3e9s4bcf",
  "ProductId": "AB*****2345",
  "DeviceName": "DEV",
  "ActionId": "actionid",
  "InputParams": "{\"color\":6}",
  "Action": "AppCallDeviceActionSync"
}
```

Output Example: Success

```
{
  "Response": {
    "ClientToken": "1ee12*****7df703e0d",
    "OutputParams": "",
    "RequestId": "026fe48b-0c31-4a7c-aaf6-83ba3e9s4bcf",
    "Status": "succ"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Asynchronous Invocation of Device Behavior

Last updated: 2025-04-30 15:35:29

1. API Description

API request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppCallDeviceActionAsync) is used to initiate an asynchronous behavior invocation request to the device bound by the user. The returned results of the device behavior called asynchronously can be accessed in real time through persistent connection communication.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
Action	String	Yes	AppCallDeviceActionAsync
ProductId	String	Yes	product ID.
DeviceName	String	Yes	Device name.
ActionId	String	Yes	Identifier of behavior function.
InputParams	String	No	Input parameter.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid.

		When locating issues, you need to provide the RequestId for the request.
ClientToken	String	Call ID.
Status	String	Return status.

4. Example

Example 1

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "AccessToken": "accesstoken*****acc",
  "RequestId": "026fe48b-0c31-4a7c-aaf6-83ba3e9s4bcf",
  "ProductId": "ABCDE12345",
  "DeviceName": "DEV",
  "ActionId": "actionid",
  "InputParams": "{\"color\":6}",
  "Action": "AppCallDeviceActionAsync"
}
```

Output example: succeed

```
{
  "Response": {
    "ClientToken": "1ee12*****7df703e0d",
    "RequestId": "026fe48b-0c31-4a7c-aaf6-83ba3e9s4bcf",
    "Status": "Sent"
  }
}
```

5. Error Code

Error Code	Description
------------	-------------

InternalError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Device Sharing

Sending Device Sharing From the App

Last updated: 2025-04-30 15:36:02

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreroopen/tokenapi`.

This interface (AppSendShareDeviceInvite) is used for sending device sharing invitations.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppSendShareDeviceInvite.
ProductId	String	Yes	product ID.
DeviceName	String	Yes	Device name.
ToUserId	String	Yes	ID of the shared user.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. When locating issues, you need to

		provide the RequestId for the request.
Status	String	Request result.

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "Action": "AppSendShareDeviceInvite",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec",
  "RequestId": "1555507435215",
  "ProductId": "22F9Y6II70",
  "DeviceName": "light1",
  "ToUserID": "123456"
}
```

Output Example: Succeed

```
{
  "Response": {
    "RequestId": "1555507435215",
    "Status": "OK"
  }
}
```

Output Example: Fail

```
{
  "Response": {
    "Error": {
      "Code": "InvalidParameterValue.InvalidAccessToken",
      "Message": "Invalid Token"
    },
    "RequestId": "1555507435215"
  }
}
```

5. Error Code

Error Code	Description
InternalError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.NoPermission	User has no permission for the device.

Retrieve the Device Sharing Token

Last updated: 2025-04-30 15:36:17

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppCreateShareDeviceToken) is used to obtain device sharing token.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppCreateShareDeviceToken.
FamilyId	String	Yes	Family ID, returned after successful creation of a family
ProductId	String	Yes	Product ID.
DeviceName	String	Yes	Device name.
TokenContext	String	No	The context of sharing.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. Locating issues, you need to provide the RequestId for the request.
ShareDeviceToken	String	Device sharing Token.

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "Action": "AppCreateShareDeviceToken",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec",
  "RequestId": "155550****15",
  "ProductId": "22F9****70",
  "DeviceName": "light1"
}
```

Output Example: successful

```
{
  "Response": {
    "RequestId": "1555507****15",
    "ShareDeviceToken": "49d2b71dc5814****7c68a4c756d3ce9"
  }
}
```

Output Example: failure

```
{
  "Response": {
    "Error": {
      "Code": "InvalidParameterValue.InvalidAccessToken",
      "Message": "Invalid Token"
    },
    "RequestId": "1555507****15"
  }
}
```

5. Error Code

Error Code	Description
------------	-------------

InternalError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.NoPermission	User has no permission for the device.

Obtain Device Sharing Token Information

Last updated: 2025-04-30 15:36:36

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppDescribeShareDeviceToken) is used to obtain token information for device sharing.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppDescribeShareDeviceToken.
ShareDeviceToken	String	Yes	Device sharing Token.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. When locating issues, you need to provide the RequestId for the request.
ShareDeviceTokenInfo	Object of ShareDeviceTokenInfo	Response result.
AliasName	String	Device alias

IconUrl	String	Icon URL
---------	--------	----------

4. Example

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "Action": "AppDescribeShareDeviceToken",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec",
  "RequestId": "1555507***15",
  "ShareDeviceToken": "49d2b71dc5814354***8a4c756d3ce9"
}
```

Output example: succeed

```
// UserId, UserNick are empty before being accepted by the sharee.
// After the sharee accepts the sharing, UserId saves the information of
the sharee.
// The frontend can determine the binding status by whether the UserId
is empty.
{
  "Response": {
    "RequestId": "1555507***15",
    "ShareDeviceTokenInfo": {
      "FromUserId": "1",
      "FromUserNick": "tests",
      "UserId": "2",
      "UserNick": "test2",
      "ProductId": "22F9Y6II70",
      "DeviceName": "light1",
      "AliasName": "my_light",
      "IconUrl": "",
      "BindTime": 0,
      "ExpireTime": 1574757262,
      "CreateTime": 1574152462
    }
  }
}
```

```
}
```

Output example: failure

```
{
  "Response": {
    "Error": {
      "Code": "InvalidParameterValue.InvalidShareDeviceToken",
      "Message": "The device sharing Token is invalid."
    },
    "RequestId": "1555507****15"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidShareDeviceToken	The Device sharing Token is invalid.

Devices Shared by Bound Users

Last updated: 2025-04-30 15:36:50

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppBindUserShareDevice) is used for binding devices shared by users.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppBindUserShareDevice.
ShareDeviceToken	String	Yes	Token for device sharing.
ProductId	String	Yes	Product ID.
DeviceName	String	Yes	Device name.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. Locating issues, you need to provide the RequestId for the request.
Status	String	Response result.

4. Example

Input example

```
POST https://iot.cloud.tencent.com/api/exploreroopen/tokenapi HTTP/1.1
content-type: application/json
{
  "Action": "AppBindUserShareDevice",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec",
  "RequestId": "1555507***15",
  "ProductId": "22F9Y6II7O",
  "DeviceName": "light1",
  "ShareDeviceToken": "0820728466424d8f***422ec06bd398"
}
```

Output example: succeed

```
{
  "Response": {
    "RequestId": "1555507***15",
    "Status": "OK"
  }
}
```

Output example: fail

```
{
  "Response": {
    "Error": {
      "Code": "InvalidParameterValue.DeviceBinded",
      "Message": "The device has been bound to the current user"
    },
    "RequestId": "1555507***15"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.

<code>InvalidParameterValue</code>	Invalid parameter value.
<code>InvalidParameterValue.DeviecBinded</code>	The device has already been bound to the current user.
<code>InvalidParameterValue.UserBindExceedLimit</code>	User binding sharing device quantity has reached the limit.
<code>InvalidParameterValue.DeviceShareExceededLimit</code>	The maximum number of sharing users for the device has been reached.
<code>InvalidParameterValue.CannotBindOwnDevice</code>	Cannot bind self-sharing devices.
<code>InvalidParameterValue.ShareDeviceTokenUsed</code>	Device sharing Token has been used.
<code>InvalidParameterValue.InvalidShareDeviceToken</code>	Device sharing Token is invalid.

Querying the User-Shared Device List

Last updated: 2025-04-30 15:37:04

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppListUserShareDevices) is used for querying the device list shared by the user.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppListUserShareDevices.
Offset	Int	Yes	Pagination offset, starting from 0, maximum not exceeding 500.
Limit	Int	Yes	Pull count per time. Default is 10. Max. 100.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. Locating issues, you need to provide the RequestId for the request.
Total	Int	Total number of returned messages.
ShareDevices	Array of ShareDevices	Respond to device information.

4. Examples

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "Action": "AppListUserShareDevices",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec",
  "RequestId": "1555507****15",
  "Offset": 0,
  "Limit": 10
}
```

Output example: successful

```
{
  "Response": {
    "RequestId": "1555507****15",
    "ShareDevices": [
      {
        "ProductId": "WTXXX0MF2",
        "DeviceName": "device_XXXX001",
        "DeviceId": "WTXXX0MF2/device_XXXX001",
        "AliasName": "test_device",
        "IconUrl": "https://yyy-xxxx-xxx.cos.ap-
guangzhou.myqcloud.com/113xxxx7a0b273bxxxxc0b9040feeb/1xxxxxxxxx0.png",
        "CreateTime": "2019-12-17T19:39:21+08:00"
      }
    ],
    "Total": 1
  }
}
```

Output example: fail

```
{
  "Response": {
    "Error": {
```

```
    "Code": "InvalidParameterValue.InvalidAccessToken",
    "Message": "Invalid Token"
  },
  "RequestId": "1555507***15"
}
```

5. Error Code

Error Code	Description
InternalServerError	An internal error occurred.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccess Token	The Token is invalid.

Deleting User-Shared Devices

Last updated: 2025-04-30 15:37:17

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppRemoveUserShareDevice) is used to delete the device shared by the user.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppRemoveUserShareDevice.
ProductId	String	Yes	Product ID.
DeviceName	String	Yes	Device name.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. When locating issues, provide the RequestId for the request.
Status	String	Response result.

4. Example

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
```

```
content-type: application/json
{
  "Action": "AppRemoveUserShareDevice",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec",
  "RequestId": "1555507****15",
  "ProductId": "22F9Y6II70",
  "DeviceName": "light1"
}
```

Output sample: successful

```
{
  "Response": {
    "RequestId": "1555507****15",
    "Status": "OK"
  }
}
```

Output example: Failure

```
{
  "Response": {
    "Error": {
      "Code": "InvalidParameterValue.AppDeviceNotExist",
      "Message": "No bound devices were found."
    },
    "RequestId": "1555507****15"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.AppDeviceNotExist	No bound devices were found.

Querying Device User List

Last updated: 2025-04-30 15:37:32

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppListShareDeviceUsers) is used for querying device user list.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppListShareDeviceUsers.
ProductId	String	Yes	Product ID.
DeviceName	String	Yes	Device name.
Offset	Int	Yes	Pagination offset, starting from 0, maximum not exceeding 500.
Limit	Int	Yes	Pull count per time. Default is 10. Maximum not exceeding 100.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. Locating issues, you need to provide the RequestId for the request.
Total	Int	Total count of returned data.

Users	Array of ShareUserInfo	List of users.
-------	--	----------------

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "Action": "AppListShareDeviceUsers",
  "AccessToken": "user2",
  "RequestId": "1555507***15",
  "ProductId": "22F9Y6II7O",
  "DeviceName": "light1",
  "Offset": 0,
  "Limit": 10
}
```

Output Example: Succeed

```
{
  "Response": {
    "RequestId": "1555507***15",
    "Users": [
      {
        "UserId": "1",
        "CountryCode": "86",
        "PhoneNumber": "139***5678",
        "NickName": "tests",
        "Avatar": "",
        "BindTime": 1574153536
      }
    ],
    "Total": 1
  }
}
```

Output Example: Fail

```
{
  "Response": {
    "Error": {
      "Code": "InvalidParameterValue.InvalidAccessToken",
      "Message": "Invalid Token"
    },
    "RequestId": "1555507****15"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessTo ken	The Token is invalid.

Deleting the User of Device Sharing

Last updated: 2025-04-30 15:37:47

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppRemoveShareDeviceUser) is used to delete the user of device sharing.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppRemoveShareDeviceUser.
RemoveUserId	String	Yes	User ID to be deleted.
ProductId	String	Yes	Product ID.
DeviceName	String	Yes	Device name.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. Locating issues, you need to provide the RequestId for the request.
Status	String	Response result.

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "Action": "AppRemoveShareDeviceUser",
  "AccessToken": "user2",
  "RequestId": "15555*****15",
  "RemoveUserId": "1234555",
  "ProductId": "22F9Y6II70",
  "DeviceName": "light1"
}
```

Output sample: successful

```
{
  "Response": {
    "RequestId": "155550*****15",
    "Status": "OK"
  }
}
```

Output example: failure

```
{
  "Response": {
    "Error": {
      "Code": "InvalidParameterValue.AppDeviceNotExist",
      "Message": "No devices were found bound"
    },
    "RequestId": "15555*****15"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.

InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.AppDeviceNotExist	No bound devices were found.
InvalidParameterValue.NoPermission	The user has no permission to access the device.

Family Management

Creating a Family

Last updated: 2025-04-30 15:38:12

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppCreateFamily) is used to create a family.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppCreateFamily.
Name	String	Yes	Family name.
Address	String	Yes	Residence address.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID is the same as the input parameter. Locating issues, you need to provide the RequestId for the request.
FamilyId	String	The Family ID successfully created.

4. Samples

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppCreateFamily",
  "Name": "family_name",
  "Address": "family_address",
  "AccessToken": "c1*****847e"
}
```

Output sample: successful

```
{
  "Response": {
    "Data": {
      "FamilyId": "e0e23a2b33a24652b6*****a1cf"
    },
    "RequestId": "req_1"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Deleting a Family

Last updated: 2025-04-30 15:38:28

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppDeleteFamily) is used to delete a family.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppDeleteFamily.
Name	String	Yes	The family name to be deleted.
FamilyId	String	Yes	The Family ID to be deleted.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. When locating issues, provide the RequestId for the request.

4. Samples

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
```

```
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppDeleteFamily",
  "Name": "XXX's family"
  "FamilyId": "e0e23a2b33a24652b6*****a1cf",
  "AccessToken": "c1*****847e"
}
```

Output sample: successful

```
{
  "Response": {
    "RequestId": "req_1"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Modifying Family

Last updated: 2025-04-30 15:38:47

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppModifyFamily) is used to modify a family.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppModifyFamily.
Name	String	Yes	The modified family name.
FamilyId	String	Yes	The Family ID that needs to be modified.
Address	String	Yes	The modified residence address.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. When locating issues, you need to provide the RequestId for the request.

4. Samples

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppModifyFamily",
  "Name": "family_name",
  "Address": "family_address",
  "FamilyId": "e0e23a2b33a24652b6*****a1cf",
  "AccessToken": "c1*****847e"
}
```

Output sample: successful

```
{
  "Response": {
    "RequestId": "req_1"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	An internal error occurred.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Get Family List

Last updated: 2025-04-30 15:39:05

1. API Description

API request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppGetFamilyList) is used to obtain the family list.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppGetFamilyList.
Offset	Int	No	The offset of the data to be queried.
Limit	Int	No	The return limit is a maximum of 50 items.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameters, unique request ID, consistent with the input parameters.
Total	Int	Total number of returned households.
FamilyList	Array	The array of list information for the returned families. Please see FamilyList .

4. Example

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppGetFamilyList",
  "Offset":0,
  "Limit":2,
  "AccessToken": "c1*****847e"
}
```

Output sample: successful

```
{
  "Response": {
    "RequestId": "req_1",
    "FamilyList": [{
      "FamilyId": "a1c6939b39d345b897*****a12c",
      "Name": "family_name",
      "Role": 0, // 1:Administrator 0:Ordinary member
      "CreateTime": 1570786578,
      "UpdateTime": 1570790807
    }],
    "Total":1
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Getting Family Details

Last updated: 2025-04-30 15:39:51

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppDescribeFamily) is used to obtain family details.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues requires providing the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppDescribeFamily.
FamilyId	String	Yes	The Family ID for which details are to be queried.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID is the same as the input parameter. Locating issues requires providing the RequestId for the request.
FamilyId	String	Family ID.
FamilyName	String	Family name.
Address	String	Residence address.
CreateTime	Int64	Creation time, UNIX timestamp (in seconds).

UpdateTime	Int64	Last update time, UNIX timestamp (in seconds).
------------	-------	--

4. Samples

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppDescribeFamily",
  "FamilyId": "a1c6939b39d345b897*****a12c",
  "AccessToken": "c1*****847e"
}
```

Output sample: successful

```
{
  "Response": {
    "RequestId": "req_1",
    "Data": {
      "FamilyId": "a1c6939b39d345b897*****a12c",
      "FamilyName": "family_name",
      "Address": "family_address",
      "CreateTime": 1570786578,
      "UpdateTime": 1570790807
    }
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessTo	The Token is invalid.

ken

Creating a Room

Last updated: 2025-04-30 15:40:05

1. API Description

API request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppCreateRoom) is used to create a room.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppCreateRoom.
FamilyId	String	Yes	Family ID that the created room belongs to.
Name	String	Yes	Name of the created room.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID is the same as the input parameter. When locating issues, provide the RequestId for the request.
RoomId	String	Room ID successfully created.

4. Samples

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
```

```
{
  "RequestId": "req_1",
  "Action": "AppCreateRoom",
  "Name": "name",
  "FamilyId": "family_address",
  "AccessToken": "c1*****847e"
}
```

Output Example: Success

```
{
  "Response": {
    "Data": {
      "RoomId": 123456
    },
    "RequestId": "req_1"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Modifying Room

Last updated: 2025-04-30 15:40:23

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppModifyRoom) is used to modify a room.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppModifyRoom.
FamilyId	String	Yes	Family ID that the room to be modified belongs to.
Name	String	No	Room name.
RoomId	String	Yes	Room ID that needs to be modified.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, consistent with the input parameter. Locating issues, you need to provide the RequestId for the request.

4. Samples

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
```

```
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppModifyRoom",
  "FamilyId": "fa070f59a2fe4****43815310c794fdf",
  "RoomId": "5",
  "Name": "TestName",
  "AccessToken":
"8b4a70dd16105f*****18edd4e78a3bb8ec"
}
```

Output sample: successful

```
{
  "Response": {
    "RequestId": "req_1"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Deleting a Room

Last updated: 2025-04-30 15:40:39

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppDeleteRoom) is used to delete a room.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues requires providing the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppDeleteRoom.
FamilyId	String	Yes	Family ID that the room to be deleted belongs to.
RoomId	String	Yes	Room ID to be deleted.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. Locating issues requires providing the RequestId for the request.

4. Samples

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
```

```
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppDeleteRoom",
  "FamilyId": "e0e23a2b33a24652b6*****a1cf",
  "RoomId": "123456",
  "AccessToken": "c1*****847e"
}
```

Output example: successful

```
{
  "Response": {
    "RequestId": "req_1"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Getting Room List

Last updated: 2025-04-30 15:40:53

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppGetRoomList) is used to obtain room list.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppGetRoomList.
Offset	Int	No	The offset of the queried data.
Limit	Int	No	The total limit you want to query. Maximum returns 50.
FamilyId	String	No	Family ID needed to get.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. Locating issues, you need to provide the RequestId for the request.
Total	Int	Total number of returned devices
RoomList	Array	The information array of the returned family list. Please see Roomlist .

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppGetRoomList",
  "FamilyId": "fa070f59a2fe4f1da4*****4fdf",
  "Offset": 0,
  "Limit": 2,
  "AccessToken": "xxx"
}
```

Output example: successful

```
{
  "Response": {
    "RequestId": "req_1",
    "RoomList": [{
      "RoomId": "123456",
      "RoomName": "name",
      "DeviceNum": 2,
      "CreateTime": 1570786578,
      "UpdateTime": 1570790807
    }],
    "Total": 1
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessT	Token invalid

oken

Invite Family Members

Last updated: 2025-04-30 15:41:07

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppInviteMember) is used to send a request to a WeChat friend to inviting others to join family.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppInviteMember.
FamilyId	String	Yes	Family ID.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. When locating issues, you need to provide the RequestId for the request.
ShareToken	String	Share the Token. The invitee can use this Token to make an API call to the Member Join Family API to join the family.

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppInviteMember",
  "FamilyId": "e0e23a2b33a24652b6*****a1cf",
  "AccessToken": "c1*****847e"
}
```

Output sample: successful

```
{
  "Response": {
    "ShareToken": "e0*****a1cf",
    "RequestId": "req_1"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Member Joining Family

Last updated: 2025-04-30 15:41:21

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppJoinFamily) is used for member join family.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppJoinFamily.
ShareToken	String	Yes	Share Token, generated by the family administrator calling Invite Family Member . The invitee can join the appropriate family with this Share Token.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. When locating issues, you need to provide the RequestId for the request.

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
```

```
"RequestId": "550e8400-e29b-41d4-a716-446655440000",
"Action": "AppJoinFamily",
"ShareToken": "e0*****a1cf",
"AccessToken": "c1*****847e"
}
```

Output Example: successful

```
{
  "Response": {
    "RequestId": "550e8400-e29b-41d4-a716-446655440000"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Deleting a Family Member

Last updated: 2025-04-30 15:41:34

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppDeleteFamilyMember) is used to delete family members by administrators.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppDeleteFamilyMember.
FamilyId	String	No	The Family ID from which to remove the member.
MemberId	String	Yes	The member ID to be removed.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID is the same as the input parameter. When locating issues, you need to provide the RequestId for the request.

4. Samples

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
```

```
content-type: application/json
{
  "RequestId": "550e8400-e29b-41d4-a716-446655440000",
  "Action": "AppDeleteFamilyMember",
  "FamilyId": "f_abcd***abcd",
  "MemberId": "12345678",
  "AccessToken": "c1*****847e"
}
```

Output sample: successful

```
{
  "Response": {
    "RequestId": "550e8400-e29b-41d4-a716-446655440000"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Member Quit Family

Last updated: 2025-04-30 15:41:50

1. API Description

API request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppExitFamily) is used for members to proactively exit a family.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppExitFamily.
FamilyId	String	Yes	Family ID to exit.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. Locating issues, you need to provide the RequestId for the request.

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "550e8400-e29b-41d4-a716-44665*****00",
  "Action": "AppExitFamily",
```

```
"FamilyId": "e0e23a2b33a24652b6*****a1cf",  
"AccessToken": "c1*****847e"  
}
```

Output example: success

```
{  
  "Response": {  
    "RequestId": "550e8400-e29b-41d4-a716-44665*****00"  
  }  
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Get the Family Member List

Last updated: 2025-04-30 15:42:06

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppGetFamilyMemberList) is used to obtain the family member list.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. this interface takes values: AppGetFamilyMemberList.
Offset	Int	No	The offset of the data you want to query.
Limit	Int	No	The total limit of data you want to query. Maximum returns 50 items.
FamilyId	String	Yes	Family ID needed to get.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. Locating issues, you need to provide the RequestId for the request.
Total	Int	Total number of family members returned.
MemberList	Array	Array of family members returned. Please see MemberList .

4. Samples

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "FamilyId": "f_b3ac7e6b1cd24392b41e*****5a",
  "Offset": 0,
  "Limit": 100,
  "Action": "AppGetFamilyMemberList",
  "RequestId": "hojkE0Hx88",
  "AccessToken": "3c*****40c5"
}
```

Output example: successful

```
{
  "MemberList": [{
    "UserID": "7267",
    "NickName": "deny",
    "Avatar":
      "https://wx.qlogo.cn/mmopen/vi_32/V2kIBBE35phMrFKu5sra16bzpUuPtokyWTbMRP
      t7bRGBjx4fEqQrZxoDYyxNVbtkXMosuxQeIqiafIZJ8ADr8cw/132",
    "Role": 1
  }],
  "Total": 1,
  "RequestId": "hojkE0Hx88"
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Invite Family Members on the App

Last updated: 2025-04-30 15:42:24

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppSendShareFamilyInvite) is used to send share invitations to family.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppSendShareFamilyInvite
FamilyId	String	Yes	Family ID
ToUserId	String	Yes	ID of the shared user

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. Locating issues, you need to provide the RequestId for the request.

4. Samples

Example 1

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "Action": "AppSendShareFamilyInvite",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec",
  "RequestId": "1555*****5215",
  "FamilyId": "e0e23a2b33a24652b6*****a1cf",
  "ToUserID": "123456"
}
```

Output example: successful

```
{
  "Response": {
    "RequestId": "1555*****5215"
  }
}
```

Output example: Failure

```
{
  "Response": {
    "Error": {
      "Code": "InvalidParameterValue.InvalidAccessToken",
      "Message": "Invalid Token"
    },
    "RequestId": "1555*****5215"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

InvalidParameterValue.NoPermission	The user has no permission for this family.
------------------------------------	---

Device Scheduling

Creating Scheduled Tasks

Last updated: 2025-04-30 15:42:49

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

this interface (AppCreateTimer) is used for users to create scheduled tasks for devices.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values AppCreateTimer.
ProductId	String	Yes	Associated product ID of the created scheduled task.
DeviceName	String	Yes	Device name controlled by the created scheduled task.
TimerName	String	Yes	Name of the timer.
Days	String	Yes	Timer activation time, each digit, 0: Off, 1: On, from left to right sequentially represent: Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday.
TimePoint	String	Yes	Timer start time.
Repeat	int	Yes	Whether to loop. <ul style="list-style-type: none"> 0: Not required. Requirement

Data	String	Yes	Control message sent when the timer starts.
------	--------	-----	---

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. Locating issues, you need to provide the RequestId for the request.
TimerId	String	Timer ID.
TimerName	String	Timer name.

4. Samples

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppCreateTimer",
  "ProductId": "US4*****IK",
  "DeviceName": "411_3",
  "AccessToken": "c1*****847e",
  "TimerName": "timer_test",
  "Days": "1000000", // Each 0: Off, 1: On, from left to right in
sequence represent: Sunday Monday Tuesday Wednesday Thursday Friday
Saturday
  "TimePoint": "06:30",
  "Repeat": 1, //Whether required to loop 0: Not required 1: Required
  "Data": "{\"brightness\": 25}"
}
```

Output sample: successful

```
{
  "Response": {
    "Data": {
```

```
    "TimerId": "e0e23a2b33a24652b6*****a1cf",
    "TimerName": "timer_test"
  },
  "RequestId": "req_1"
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Modifying a Scheduled Task

Last updated: 2025-04-30 15:43:04

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppModifyTimer) is used to modify the scheduled task of a device.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values AppModifyTimer.
ProductId	String	Yes	Modify the product ID corresponding to the timer.
DeviceName	String	Yes	Device name corresponding to the timer.
TimerName	String	Yes	Timer name.
TimerId	String	Yes	Timer ID.
TimePoint	String	Yes	Timer start time.
Days	String	Yes	Timer activation time, each digit, 0: Off, 1: On, from left to right in sequence represent: Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday.
Repeat	Int	Yes	Whether to loop.

			<ul style="list-style-type: none"> 0: Not required. Requirement
Data	String	Yes	Control message sent when the timer starts.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. When locating issues, provide the RequestId for the request.

4. Samples

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppModifyTimer",
  "ProductId": "US*****DIK",
  "DeviceName": "411_3",
  "AccessToken": "c1*****847e",
  "TimerId": "a1c6939b39d345b897*****a12c",
  "TimerName": "timer_test_modify",
  "Days": "1100000",
  "TimePoint": "9:30",
  "Repeat": 0,
  "Data": "{\"brightness\": 28}"
}
```

Output sample: successful

```
{
  "Response": {
    "RequestId": "req_1"
  }
}
```

```
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Deleting Scheduled Tasks

Last updated: 2025-04-30 15:43:19

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppDeleteTimer) is used to delete device scheduling.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values AppDeleteTimer.
ProductId	String	Yes	Modify the product ID corresponding to the timer.
DeviceName	String	Yes	Device name corresponding to the timer.
TimerId	String	Yes	Timer ID.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID is the same as the input parameter. When locating issues, you need to provide the RequestId for the request.

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppDeleteTimer",
  "ProductId": "US4*****IK",
  "DeviceName": "411_3",
  "TimerId": "e0e23a2b33a24652b6*****a1cf",
  "AccessToken": "c1*****847e"
}
```

Output sample: successful

```
{
  "Response": {
    "RequestId": "req_1"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Modifying Scheduled Task Status

Last updated: 2025-04-30 15:43:33

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppModifyTimerStatus) is used to modify the start-stop status of a scheduled task.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values AppModifyTimerStatus.
ProductId	String	Yes	The product ID of the scheduled task list needs to be modified.
DeviceName	String	Yes	The timer status or device name needs modification.
TimerId	String	Yes	Timer ID.
Status	Int	No	The timer status that needs to be modified. <ul style="list-style-type: none"> 0: Off. 1: Enable.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, consistent with the input parameter. When locating issues, you need to provide the RequestId for the request.

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppModifyTimerStatus",
  "ProductId": "US4*****IK",
  "DeviceName": "411_3",
  "TimerId": "a1c6939b39d345b897*****a12c",
  "Status": 0,
  "AccessToken": "c1*****847e"
}
```

Output example: successful

```
{
  "Response": {
    "RequestId": "req_1"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Get Scheduled Task List

Last updated: 2025-04-30 15:43:49

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppGetTimerList) is used to obtain the timer list.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values AppGetTimerList.
ProductId	String	Yes	Product ID needed to get the scheduled task list.
DeviceName	String	Yes	Device name needed to get the scheduled task list.
Offset	Int	No	The list offset obtained.
Limit	Int	No	The total obtained message count, with a maximum of 50.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. When locating issues, provide the RequestId for the request.
TimerList	Array	The obtained product list. Please see TimerList .
Total	Int	Total number of items owned.

4. Samples

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppGetTimerList",
  "ProductId": "US4*****IK",
  "DeviceName": "411_3",
  "Offset":0,
  "Limit":2,
  "AccessToken": "c1*****847e"
}
```

Output sample: successful

```
{
  "Response": {
    "RequestId": "req_1",
    "Total":2,
    "TimerList": [{
      "TimerId": "a1c6939b39d345b897*****a12c",
      "TimerName": "timer_test_modify",
      "ProductId": "US4*****IK",
      "DeviceName": "411_3",
      "Days": "1100000",
      "TimePoint": "09:30",
      "Repeat": 0,
      "Data": "{\"brightness\": 28}",
      "Status": 0,
      "CreateTime": 1570786578,
      "UpdateTime": 1570790807
    }, {
      "TimerId": "f888dd20c70744939a*****1c3a",
      "TimerName": "timer_test",
      "ProductId": "US4*****IK",
      "DeviceName": "411_3",
```

```
    "Days": "1000000",
    "TimePoint": "07:00",
    "Repeat": 1,
    "Data": "{\"brightness\": 25}",
    "Status": 1,
    "CreateTime": 1570786483,
    "UpdateTime": 1570786483
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Firmware Upgrade

Reporting Device Firmware Version

Last updated: 2025-04-30 15:44:15

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppReportFirmwareVersion) is used for submitting device firmware version.

2. Input Parameters

Name	Type	Required	Description
Access Token	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppReportFirmwareVersion.
ProductId	String	Yes	Product ID.
Device Name	String	Yes	Device name.
Version	String	Yes	Firmware version reported by the device.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. Locating issues, you need to provide the RequestId for the request.

4. Samples

Example 1

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "584406e9-bf59-46a3-8d45-39f1891bed7b",
  "Action": "AppReportFirmwareVersion",
  "Version": "1.0",
  "ProductId": "PR*****ID",
  "DeviceName": "de***01",
  "AccessToken": "871d2d42*****692afae0"
}
```

Output example: successful

```
{
  "Response": {
    "RequestId": "584406e9-bf59-46a3-8d45-39f1891bed7b"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.NoPermission	The user has no permission for the device.

Query Device Upgradable Firmware Version

Last updated: 2025-04-30 15:44:31

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppCheckFirmwareUpdate) is used for querying the firmware version that can be upgraded on the device.

2. Input Parameters

Name	Type	Required	Description
Access Token	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppCheckFirmwareUpdate.
ProductId	String	Yes	Product ID.
Device Name	String	Yes	Device name.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID is the same as the input parameter. Locating issues, you need to provide the RequestId for the request.
CurrentVersion	String	Current firmware version of the device.

DstVersion	String	Firmware can be upgraded.
------------	--------	---------------------------

4. Example

Sample 1

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "584406e9-bf59-46a3-8d45-39f1891bed7b",
  "Action": "AppCheckFirmwareUpdate",
  "ProductId": "PR*****ID",
  "DeviceName": "de***01",
  "AccessToken": "871d2d42*****692afae0"
}
```

Output example: succeed

```
{
  "Response": {
    "DstVersion": "1.1",
    "CurrentVersion": "1.0",
    "RequestId": "584406e9-bf59-46a3-8d45-39f1891bed7b"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.NoPermi	User has no permission for the device.

ssion	
FailedOperation	Operation failed.
FailedOperation.DeviceInfoOutdated	Device firmware version error (the firmware version reported by the device does not match the current firmware upgrade task).

Query the Download Address of Device Firmware

Last updated: 2025-04-30 15:44:46

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppGetDeviceOTAInfo) is used for querying the firmware download address of a device.

2. Input Parameter

Name	Type	Required	Description
Access Token	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppGetDeviceOTAInfo.
ProductId	String	Yes	product ID.
Device Name	String	Yes	device name.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. Locating issues, you need to provide the RequestId for the request.
FirmwareURL	String	Firmware Download Address.

TargetVersion	String	Target Firmware Version.
UploadVersion	String	Firmware version reported by the device.

4. Example

Example 1

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "AccessToken": "871d2d42*****692afae0",
  "Action": "AppGetDeviceOTAInfo",
  "RequestId": "584406e9-bf59-46a3-8d45-39f1891bed7b",
  "ProductId": "PR*****ID",
  "DeviceName": "de***01",
}
```

Output sample: successful

```
{
  "Response": {
    "FirmwareURL": "https://examplebucket-12500000000.cos.ap-
guangzhou.myqcloud.com/path/to/firmware?sign=***",
    "RequestId": "584406e9-bf59-46a3-8d45-39f1891bed7b",
    "TargetVersion": "1.1",
    "UploadVersion": "1.0"
  }
}
```

5. Error Code

Error Code	Description
InternalError	Internal error.
InvalidParameterValue	Invalid parameter value.

InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.NoPermission	The user has no permission for the device.
ResourceNotFound	The resource does not exist.
ResourceNotFound.DeviceFirmwareTaskNotExist	Failed to query firmware upgrade tasks.

Confirm Firmware Upgrade Task

Last updated: 2025-04-30 15:45:09

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppPublishFirmwareUpdateMessage) is used for the cloud to initiate a firmware upgrade request to the device after the user confirms the upgrade.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppPublishFirmwareUpdateMessage.
ProductId	String	Yes	Product ID.
DeviceName	String	Yes	Device name.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID is the same as the input parameter. When locating issues, provide the RequestId for the request.

4. Example

Example 1

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "584406e9-bf59-46a3-8d45-39f1891bed7b",
  "Action": "AppPublishFirmwareUpdateMessage",
  "ProductId": "PR*****ID",
  "DeviceName": "de***01",
  "AccessToken": "871d2d42*****692afae0"
}
```

Output Example: Succeed

```
{
  "Response": {
    "RequestId": "584406e9-bf59-46a3-8d45-39f1891bed7b"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.NoPermission	The user has no permission to access the device.
ResourceNotFound	The resource does not exist.
ResourceNotFound.DeviceHasNoFirmware	The device has no firmware version.
FailedOperation	Operation failed.
FailedOperation.DeviceOffline	The device is offline.

Reporting Firmware Upgrade Task Status

Last updated: 2025-04-30 15:45:41

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppReportOTAStatus) is used to report device firmware upgrade status and progress.

2. Input Parameters

Name	Type	Required	Description
Access Token	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppReportOTAStatus.
ProductId	String	Yes	Product ID.
Device Name	String	Yes	Device name.
Version	String	Yes	Target upgrade version of the firmware.
State	String	Yes	Firmware Upgrade Status: <ul style="list-style-type: none">• downloading• FAIL: Upgrade failed.• Upgrade successful.• burning• updating

Result Code	Int	Yes	Error Code: <ul style="list-style-type: none"> • 0: Succeed. • -1: Download Timeout. • -2: File does not exist. • -3: Signature expired. • -4: MD5 mismatch. • -5: Firmware update failed.
Result Msg	String	No	Error additional information, required when State value is fail.
Persent	Int	No	Upgrade progress percentage, in the range of 0 ~ 100.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. Locating issues, you need to provide the RequestId for the request.

4. Example

Sample 1

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "AccessToken": "871d2d42*****692afae0",
  "Action": "AppReportOTAStatus",
  "RequestId": "584406e9-bf59-46a3-8d45-39f1891bed7b",
  "ProductId": "PR*****ID",
  "DeviceName": "de***01",
  "State": "done",
  "ResultCode": 0,
  "ResultMsg": "",
  "Version": "1.1",
  "Persent": 100
}
```

Output example: succeed

```
{
  "Response": {
    "RequestId": "584406e9-bf59-46a3-8d45-39f1891bed7b"
  }
}
```

Example 2

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "AccessToken": "871d2d42*****692afae0",
  "Action": "AppReportOTAStatus",
  "RequestId": "584406e9-bf59-46a3-8d45-39f1891bed7b",
  "ProductId": "PR*****ID",
  "DeviceName": "de***01",
  "State": "downloading",
  "ResultCode": 0,
  "ResultMsg": "",
  "Version": "2.0",
  "Persent": 20
}
```

Output example: successful

```
{
  "Response": {
    "RequestId": "584406e9-bf59-46a3-8d45-39f1891bed7b"
  }
}
```

5. Error Code

Error Code	Description
------------	-------------

InternalError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.NoPermission	User has no permission for the device.

Querying Device Firmware Upgrade Status

Last updated: 2025-04-30 15:45:55

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppDescribeFirmwareUpdateStatus) is used for querying the device firmware upgrade status and progress.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppDescribeFirmwareUpdateStatus.
ProductId	String	Yes	product ID.
DeviceName	String	Yes	Device name.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID is the same as the input parameter. When locating issues, you need to provide the RequestId for the request.
OriVersion	String	Source version of the upgrade task.

DstVersion	String	Target version of the upgrade task.
ErrMsg	String	Error information.
Percent	Int64	Upgrade progress percentage.
Status	Int64	<p>Upgrade Status:</p> <ul style="list-style-type: none"> • Device is offline. • 1: Pending processing. • 2: Message delivery successful. • 3: Downloading. • 4: Burning. • 5: Failed. • 6: Update completed. • 7: Is being processed. • 8: Wait for user confirmation. • 20: Download completed.

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68",
  "Action": "AppDescribeFirmwareUpdateStatus",
  "ProductId": "22*****0",
  "DeviceName": "li****1",
  "AccessToken": "8b4d16105f*****18edd4e78a3bb8ec"
}
```

Output Example: Succeed

```
{
  "Response": {
    "DstVersion": "2.0",
    "ErrMsg": "",
    "OriVersion": "1.0",
  }
}
```

```
"Percent": 0,  
"RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68"  
}  
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

View Firmware Information

Last updated: 2025-04-30 15:46:09

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppDescribeFirmware) is used for querying device firmware information.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppDescribeFirmware.
ProductID	String	Yes	product ID
FirmwareVersion	String	Yes	Firmware Version Number

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. When locating issues, you need to provide the RequestId for the request.
ProductId	String	product ID
Name	String	Firmware name. Note: This field may return null, indicating that no valid value was obtained.
Description	String	Firmware description. Note: This field may return null, indicating that no valid

		value was obtained.
Md5sum	String	Firmware Md5 value. Note: This field may return null, indicating that no valid value was obtained.
Createtime	Integer	Unix second-level timestamp for firmware upload. Note: This field may return null, indicating that no valid value was obtained.
ProductName	String	Product name.
FwType	String	Firmware upgrade module. Note: This field may return null, indicating that no valid value was obtained.
Version	String	Firmware Version Number

4. Samples

Input example

```
POST https://iot.cloud.tencent.com/api/exploreroopen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68",
  "Action": "AppDescribeFirmware",
  "ProductId": "22*****0",
  "FirmwareVersion": "t.2",
  "AccessToken": "8b4d16105f*****18edd4e78a3bb8ec"
}
```

Output example: successful

```
{
  "Response": {
    "Createtime": 1599626765,
    "Description": "ttttt",
    "Md5sum": "1a5c386576074d22a604b795e8917e1a",
    "Name": "test",
    "ProductId": "I6KTCZ170U",
    "ProductName": "8bvsn6go_Test OTA Upgrade"
  }
}
```

```
"RequestId": "01365e8c-f025-40b9-97a4-fa583d6c569e",  
"Version": "t.2",  
"FwType": "mcu"  
}  
}
```

5. Error Code

Error Code	Description
InternalServerError.InternalRPCError	Internal RPC error.
ResourceNotFound.FirmwareNotExist	Firmware does not exist.
ResourceNotFound.StudioProductNotExist	The product does not exist.

Message Management

Obtain Message List

Last updated: 2025-04-30 15:46:34

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppGetMessages) is used to query message list, which includes device alarm messages and operation notification messages.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. RequestId is required for locating a problem.
Action	String	Yes	Common parameter. This interface takes values: AppGetMessages.
Category	Int64	Yes	Primary type. <ul style="list-style-type: none">1: Device.2: family.3: notification.
MsgID	String	No	Message ID, optional for the first time.
MsgTimestamp	Int64	No	Timestamp of the message, optional for the first time or can be 0.
Limit	Int64	Yes	The maximum return limit, no more than 100.

3. Output Parameters

Name	Type	Description
------	------	-------------

RequestId	String	Common parameter. Unique request ID, same as the input parameter. Provide the RequestId for the request when locating issues.
Listover	String	For pagination.

4. Samples

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "Action": "AppGetMessages",
  "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68",
  "AccessToken": "8b*****b8ec",
  "Category": 2,
  "MsgID": "",
  "MsgTimestamp": 0,
  "Limit": 5
}
```

Output Example: Success

```
{
  "Response": {
    "Data": {
      "Listover": true,
      "Msgs": [{
        "UserID": "1",
        "FromUserID": "",
        "MsgID": "65167410520395776",
        "Category": 1,
        "MsgType": 100,
        "MsgTitle": "Device Warning",
        "MsgContent": "Some message Wed Nov 27 2019 11:52:01
GMT+0000.",
        "MsgTimestamp": 1574855521420,
        "ProductId": "",
        "DeviceName": ""
      }
    ]
  }
}
```

```
    "DeviceAlias": "",
    "FamilyId": "",
    "FamilyName": "",
    "RelateUserID": "",
    "CreateAt": "2019-11-27T11:52:01.42Z"
  }, {
    "UserID": "1",
    "FromUserID": "1",
    "MsgID": "65167395785805824",
    "Category": 2,
    "MsgType": 200,
    "MsgTitle": "Member addition result notification"
    "MsgContent": "\"jordan\" adds \"dylan\" as a member of
  \"/>

```

```

        "CreateAt": "2019-11-27T11:51:55.631Z"
    }, {
        "UserID": "1",
        "FromUserID": "1",
        "MsgID": "65167339519217664",
        "Category": 3,
        "MsgType": 300,
        "MsgTitle": "Device sharing result notification"
        "MsgContent": "\"dylan\" has successfully received the
device \"smart light\" shared by \"jordan\". Now it can view and control the
device. Wed Nov 27 2019 11:51:44 GMT+0000"
        "MsgTimestamp": 1574855504492,
        "ProductId": "22F9Y6II7O",
        "DeviceName": "light1",
        "DeviceAlias": "light1",
        "FamilyId": "",
        "FamilyName": "",
        "RelateUserID": "2",
        "CreateAt": "2019-11-27T11:51:44.492Z"
    }
  ],
  "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68"
}
}

```

5. Error Code

Error Code	Description
InternalError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Deleting Messages

Last updated: 2025-04-30 15:46:49

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppDeleteMessage) is used to delete messages.

2. Input Parameter

Name	Type	Required	Description
Access Token	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppDeleteMessage.
MsgID	String	Yes	Message ID.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. When locating issues, you need to provide the RequestId for the request.
Data	String	Return data.

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
```

```
"Action": "AppDeleteMessage",
"RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68",
"AccessToken": "8b*****b8ec",
"MsgID": 1633328834809856
}
```

Output example: successful

```
{
  "Response": {
    "Data": "OK",
    "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68"
  }
}
```

Output example: failure

```
{
  "Response": {
    "Error": {
      "Code": "InvalidParameterValue.InvalidAccessToken",
      "Message": "Invalid Token"
    },
    "RequestId": ""
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.MsgIDInvalid	Illegal message ID.

Manual Intelligence

Create Manual Intelligent Linkage

Last updated: 2025-04-30 15:47:14

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/appapi`.

This interface (AppCreateScene) is used to create manual intelligent linkage.

2. Input Parameter

Name	Type	Required	Description
Access Token	String	Yes	Common parameter, the Access Token obtained upon successful login by users through WeChat ID, mobile phone or email account.
RequestId	String	Yes	Common parameter, unique request ID, can be generated manually, recommended to use uuid. Locating issues, need to provide the RequestId for the request.
Action	String	Yes	Common parameter, this interface takes values: AppCreateScene.
FamilyId	String	Yes	Family ID that the manual intelligent linkage belongs to.
SceneName	String	Yes	Name of the manual intelligent linkage.
SceneIcon	String	Yes	Background image address of the manual intelligent linkage.
Actions	Array of Action	Yes	Manual intelligent linkage action list.

3. Output Parameter

Name	Type	Description
------	------	-------------

RequestId	String	Common parameters, unique request ID, same as the input parameters. Provide the RequestId for the request when locating issues.
SceneId	String	Manual intelligent linkage ID.

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "Actions": [
    {
      "ActionType": 0,
      "ProductId": "R320***0EU",
      "DeviceName": "df***yY",
      "Data": "{\"brightness\": 25}"
    }
  ],
  "AccessToken": "x***v2",
  "RequestId": "re***_1",
  "Action": "AppCreateScene",
  "FamilyId": "f_9b30*****c3d9588fcc1",
  "SceneName": "name",
  "SceneIcon": "icon"
}
```

Output Sample: succeed

```
{
  "Response": {
    "SceneId": "a_cd61ddbe****47d21d6aeffea",
    "RequestId": "req_1"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InternalServerError.InternalServerErrorDB	DB error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.NoPermission	User has no permission for the device.

Get Manual Intelligent Linkage List

Last updated: 2025-04-30 15:47:30

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/appapi`.

This interface (AppGetSceneList) is used to obtain the Manual Intelligent Linkage List.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter, the Access Token obtained upon successful login by users through WeChat ID, mobile phone or email account.
RequestId	String	Yes	Common parameter, unique request ID, can be generated manually, uuid is recommended for use. Locating issues, need to provide the RequestId for the request.
Action	String	Yes	Common parameter, this interface takes values: AppGetSceneList.
FamilyId	String	Yes	Family ID.
Offset	Int	Yes	Message offset.
Limit	Int	Yes	Maximum number of return messages, with a maximum value of 50.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter, unique request ID, same as the input parameter. Locating issues, need to provide the RequestId for the request.
SceneList	Array of Scene	Manual Intelligent Linkage List.
Total	Int	Total number of manual intelligent linkages.

4. Samples

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "AccessToken": "***v2",
  "RequestId": "req_1",
  "Action": "AppGetSceneList",
  "FamilyId": "f_9b309*****4c3d9588fcc1",
  "Offset": 0,
  "Limit": 10
}
```

Output example: successful

```
{
  "Response": {
    "RequestId": "req_1",
    "SceneList": [
      {
        "SceneId": "s_f7feb440d*****28f3a598d00c",
        "FamilyId": "f_9b309d8*****a11b4c3d9588fcc1",
        "SceneName": "f***na",
        "SceneIcon": "",
        "Actions": [ // Each field in the Actions array; it does
not appear if empty
          {
            "ActionType": 0,
            "ProductId": "R32****0EU",
            "DeviceName": "df***yY",
            "Data": "{\"brightness\": 25}",
            "AliasName": "1***45" // Description: AliasName is a
device alias.
          },
          {
            "ActionType": 1,
            "Data": "100"
          }
        ]
      }
    ]
  }
}
```

```
    }
  ],
  "UserId": "1",
  "CreateTime": 1578557536,
  "UpdateTime": 1578560598,
  "Flag": 0, // Flag: 0 for normal scenarios, 1: device anomalies
in scenarios, not in the home
  "Status": 0 // Running state of the scenario: 0 for not running,
1 for running
}
],
"Total": 1
}
}
// IconUrl is the url of the specific device.
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InternalServerError.InternalServerErrorExceptionDB	DB error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.NoPermission	User has no permission for the device.
UnsupportedOperation.SceneRunInProgress	Scenario in execution.

Deleting Manual Intelligent Linkage

Last updated: 2025-04-30 15:47:43

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/appapi`.

This interface (AppDeleteScene) is used to delete manual intelligent linkage.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter, the Access Token obtained after users through WeChat ID, mobile phone or email account login succeed.
RequestId	String	Yes	Common parameter, unique request ID, can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter, this interface takes values: AppDeleteScene.
SceneId	String	Yes	Manual intelligent linkage ID.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter, unique request ID, same as the input parameter. When locating issues, you need to provide the RequestId for the request.

4. Example

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "AccessToken": "***v2",
```

```
"RequestId": "req_1",  
"SceneId": "s_527cb52*****b453cb6a46f653",  
"Action": "AppDeleteScene"  
}
```

Output sample: successful

```
{"Response": {"RequestId": "req_1"}}
```

5. Error Code

Error Code	Description
InternalServerError	Internal Error
InternalServerError.InternalServerErrorDB	DB error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.NoPermission	User has no permission for the device.
UnsupportedOperation.SceneRunInProgress	Scenario in execution.

Modifying Manual Intelligent Linkage

Last updated: 2025-04-30 15:47:59

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/appapi`.

This interface (AppModifyScene) is used to modify manual intelligent linkage.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameters, the Access Token obtained by users after successfully logging in via WeChat ID, mobile phone or email account.
RequestId	String	Yes	Common parameters, unique request ID, can be generated manually, uuid is recommended for use. Locating issues, need to provide the RequestId for the request.
Action	String	Yes	Common parameter, this interface takes values: AppModifyScene.
SceneId	String	Yes	Manual intelligent linkage ID.
SceneName	String	Yes	Name of the manual intelligent linkage.
SceneIcon	String	Yes	Background image address of the manual intelligent linkage.
Actions	Array of Action	Yes	Manual intelligent linkage action list.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameters, unique request ID, same as the input parameters. Locating issues, need to provide the RequestId for the request.

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "Actions": [
    {
      "ActionType": 0,
      "ProductId": "R32***0EU",
      "DeviceName": "df***yY",
      "Data": "{\"brightness\": 25}"
    }
  ],
  "AccessToken": "***v2",
  "RequestId": "req_1",
  "Action": "AppModifyScene",
  "SceneId": "s_527cb5***3cb6a46f653",
  "SceneName": "name",
  "SceneIcon": "***icon"
}
```

Output example: successful

```
{"Response": {"RequestId": "req_1"}}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InternalServerError.InternalServerErrorExceptionDB	DB error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.NoPermission	The user has no permission for the device.

UnsupportedOperation.SceneRunInProgress

Scenario in execution.

Performing Manual Intelligent Linkage

Last updated: 2025-04-30 15:48:13

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/appapi`.

This interface (AppRunScene) is for execution of manual intelligent linkage.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter, the Access Token obtained upon successful login by users through WeChat ID, mobile phone or email account.
RequestId	String	Yes	Common parameter, unique request ID, can be generated manually, recommended for use as uuid. Locating issues, need to provide the RequestId for the request.
Action	String	Yes	Common parameter, this interface takes values: AppRunScene.
SceneId	String	Yes	Manual intelligent linkage ID.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter, unique request ID, same as the input parameter. Locating issues, need to provide the RequestId for the request.

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
```

```
content-type: application/json
{
  "AccessToken": "***v2",
  "RequestId": "req_1",
  "SceneId": "s_527cb5*****53cb6a46f653",
  "Action": "AppRunScene"
}
```

Output example: successful

```
{"Response":{"RequestId":"req_1"}}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InternalServerError.InternalServerErrorExceptionDB	DB error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.NoPermission	User has no permission for the device.
UnsupportedOperation.SceneRunInProgress	Scenario in execution.

Automatic Intelligence

Create Automatic Intelligent Linkage

Last updated: 2025-04-30 15:48:37

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/appapi`.

This interface (AppCreateAutomation) is used to create automatic intelligent linkage.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameters, Access Token obtained upon successful login by users through WeChat ID, mobile phone or email account.
RequestId	String	Yes	Common parameters, unique request ID, can be generated manually. It is recommended to use uuid. When locating issues, provide the RequestId for the request.
Action	String	Yes	Common parameters, this interface takes values: AppCreateAutomation.
FamilyId	String	Yes	Family ID that the automatic intelligent linkage belongs to.
Icon	String	Yes	Background image address of the automatic intelligent linkage.
Name	String	Yes	Name of the automatic intelligent linkage.
Status	int	Yes	Automatic intelligent linkage switch state. <ul style="list-style-type: none">• 0: Disable.• 1: Enable.
MatchType	int	Yes	Condition match type. <ul style="list-style-type: none">• 0: All conditions are met.• 1: One condition is met.

Conditions	Array of Condition	Yes	Automatic intelligent linkage trigger conditions.
Actions	Array of Action	Yes	Action list of automatic intelligent linkage.
EffectiveBeginTime	String	Yes	Start of effective time.
EffectiveEndTime	String	Yes	Expiration time.
EffectiveDays	String	Yes	The effective date is a 7-digit number composed of 0s and 1s. 0 means not execute, and 1 means execute. The first digit represents Sunday, and the following digits sequentially represent Monday to Saturday.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameters, unique request ID, same as the input parameters. When locating issues, provide the RequestId for the request.
AutomationId	String	Automatic intelligent linkage ID.

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppCreateAutomation",
  "FamilyId": "f_9****c1",
  "Icon": "https://www.icon.com/",
  "Name": "autoName",
  "Status": 0, //Integration switch: 0: Disabled; 1: Enabled.
  "MatchType": 1, //Condition match type: 0: All conditions AND; 1:
All conditions OR
```

```

    "EffectiveBeginTime": "00:00", // Two new configuration parameters
to indicate start and end times
    "EffectiveEndTime": "23:59",
    "EffectiveDays": "1111111", // A 7-digit number composed of 0s and
1s, where 0 means not execute and 1 means execute. The first digit
represents Sunday, followed by Monday to Saturday in sequence.
    "Conditions": [
        {
            "CondId": "abc", // Condition ID, ensure uniqueness within a
linkage just
            "CondType": 0, //Condition type: 0 - Device attribute value
condition; 1 - Scheduling condition
            "Property": {
                "ProductId": "N****4",
                "DeviceName": "g***ev",
                "AliasName": "devName",
                "IconUrl": "productIcon",
                "PropertyId": "switch", //Attribute ID of the device
                "Op": "equal", //conditional operator eq: equal ne:
not equal gt: more than lt: less than ge: larger than le: less than
or equal to
                "Value": 1 //Comparative Value
            }
        },
        {
            "CondId": "efg",
            "CondType": 1,
            "Timer": {
                "Days": "1000000", // A 7-digit number composed of 0s
and 1s. 0 means not execute, and 1 means execute. The first digit
represents Sunday, and the following digits represent Monday to Saturday
sequentially.
                "TimePoint": "09:30" // Trigger time, 24-hour format,
such as "14:00"
            }
        }
    ],
    "Actions": [
        {

```

```

        "ActionType": 0, // 0: Device action, specific parameter set
to Data 0: Device action 1: Delay 2: Scenario 3: Notification
        "ProductId": "R32***0EU",
        "DeviceName": "df***yY",
        "Data": "{\"brightness\": 25}", // ActionType is 0: Device
action parameter, 1: Delay in seconds, 2: Execution scene Id, 3:
Notification content
        "AliasName": "12345",
        "IconUrl": "url"
    },
    {
        "ActionType": 1, // 1: Delay action, specific delay time is
Data, value in seconds
        "Data": "100"
    }
],
    "AccessToken": "***v2"
}

```

Output sample: successful

```

{
  "Response": {
    "AutomationId": "a_cd61dd****d21d6aeffea",
    "RequestId": "req_1"
  }
}

```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InternalServerError.InternalServerErrorExceptionDB	DB error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

InvalidParameterValue.NoPermission	The user has no permission to the device.
LimitExceeded	The quantity exceeds the limit.

Get Automatic Intelligent Linkage List

Last updated: 2025-04-30 15:48:52

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/appapi`.

This interface (AppGetAutomationList) is used to obtain the Automatic Intelligent Linkage List.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter, the Access Token obtained by users upon successful login through WeChat ID, mobile phone or email account.
RequestId	String	Yes	Common parameter, unique request ID, can be generated manually. It is recommended to use uuid. When locating issues, provide the RequestId for the request.
Action	String	Yes	Common parameter, this interface takes values: AppGetAutomationList.
FamilyId	String	Yes	Family ID.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter, unique request ID, same as the input parameter. When locating issues, provide the RequestId for the request.
List	Array of AutomationListitem	Automatic Intelligent Linkage List.

4. Example

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppGetAutomationList",
  "FamilyId": "f_9****c1",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec"
}
```

Output example: successful

```
{
  "Response": {
    "List": [
      {
        "AutomationId": "a_cd61*****d21d6aeffea",
        "Icon": "https://www.****.com/",
        "Name": "autoName",
        "Status": 0
      }
    ],
    "RequestId": "req_1"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InternalServerError.InternalServerErrorDB	DB error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.NoPermission	User has no permission for the device.

Getting Automatic Intelligent Linkage Details

Last updated: 2025-04-30 15:49:07

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/appapi`.

This interface (AppDescribeAutomation) is used to obtain automatic intelligent linkage details.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	common parameter, access Token obtained upon successful login by users through WeChat ID, mobile phone or email account.
RequestId	String	Yes	common parameter, unique request ID, can be generated manually, recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
Action	String	Yes	common parameter, this interface takes values: AppDescribeAutomation.
AutomationId	String	Yes	Automatic intelligent linkage ID.

3. Output Parameters

Name	Type	Description
RequestId	String	common parameter, unique request ID, same as the input parameter, when locating issues, you need to provide the RequestId for the request
Data	Object of Automation	Automatic intelligent linkage entity

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppDescribeAutomation",
  "AutomationId": "a_cd61d*****7d21d6aeffea",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec"
}
```

Output sample: successful

```
{
  "Response": {
    "Data": {
      "AutomationId": "a_cd61d*****d6aeffea",
      "Icon": "https://www.****.com/",
      "Name": "autoName",
      "Status": 0,
      "MatchType": 1,
      "EffectiveBeginTime": "00:00", // Two new configuration
parameters to indicate start and end times
      "EffectiveEndTime": "23:59",
      "EffectiveDays": "1111111", // A 7-digit number composed of 0s and
1s, where 0 indicates not to execute, 1 indicates to execute, the first
digit represents Sunday, and the following digits represent Monday to
Saturday sequentially
      "Conditions": [
        {
          "CondId": "abc",
          "CondType": 0,
          "Property": {
            "ProductId": "NJ****LZT4",
            "DeviceName": "gw***v",
            "AliasName": "d****me",
            "IconUrl": "productIcon",
            "PropertyId": "switch",
            "Op": "eq",

```

```
        "Value": 1
      }
    },
    {
      "CondId": "efg",
      "CondType": 1,
      "Timer": {
        "Days": "1000000",
        "TimePoint": "09:30"
      }
    }
  ],
  "Actions": [
    {
      "ActionType": 0,
      "ProductId": "R3***0EU",
      "DeviceName": "df***yY",
      "Data": "{\"brightness\": 25}",
      "AliasName": "12345",
      "IconUrl": "url"
    },
    {
      "ActionType": 1,
      "Data": "100"
    }
  ]
},
"RequestId": "req_1"
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InternalServerError.InternalServerErrorDB	DB error.
InvalidParameterValue	Invalid parameter value.

InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.NoPermission	User has no permission for the device.

Deleting Automatic Intelligent Linkage

Last updated: 2025-12-19 09:16:28

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/appapi`.

This API (AppDeleteAutomation) is used to delete automatic intelligent linkage.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter, the Access Token obtained upon successful login by users through WeChat ID, mobile phone or email account.
RequestId	String	Yes	Common parameter, unique request ID, can be generated manually, uuid is recommended for use. Locating issues, need to provide the RequestId for the request.
Action	String	Yes	Common parameter, this interface takes values: AppDeleteAutomation.
AutomationId	String	Yes	Automatic intelligent linkage ID.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter, unique request ID, same as the input parameter. Locating issues, need to provide the RequestId for the request.

4. Example

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
```

```
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppDeleteAutomation",
  "AutomationId": "a_cd61d*****1d6aeffea",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec"
}
```

Output sample: successful

```
{"Response":{"RequestId":"req_1"}}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InternalServerError.InternalServerErrorExceptionDB	DB error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.NoPermission	The user has no permission to access the device.

Modifying Automatic Intelligent Linkage

Last updated: 2025-04-30 15:50:15

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/appapi`.

This interface (AppModifyAutomation) is used to modify automatic intelligent linkage.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter, the Access Token obtained upon successful login by users through WeChat ID, mobile phone or email account.
RequestId	String	Yes	Common parameter, unique request ID, can be generated manually, recommended for use as uuid. Locating issues, need to provide the RequestId for the request.
Action	String	Yes	Common parameter, this interface takes values: AppModifyAutomation.
AutomationId	String	Yes	Automatic intelligent linkage ID.
Icon	String	Yes	Create the background image address for automatic intelligent linkage.
Name	String	Yes	Name of automatic intelligent linkage.
Status	int	Yes	Automatic intelligent linkage switch state. <ul style="list-style-type: none">0: Disable.1: Enable.
MatchType	int	Yes	Condition match type. <ul style="list-style-type: none">0: All conditions are met.1: One condition is met.

Conditions	Array of Condition	Yes	Automatic intelligent linkage trigger condition.
Actions	Array of Action	Yes	Automatic intelligent linkage action list.
EffectiveBeginTime	String	Yes	Start of effective time.
EffectiveEndTime	String	Yes	Expiration time.
EffectiveDays	String	Yes	A 7-digit number composed of 0s and 1s. 0 means not execute, and 1 means execute. The first digit represents Sunday, and the following digits represent Monday to Saturday sequentially.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter, unique request ID, same as the input parameter. Locating issues, need to provide the RequestId for the request.

4. Example

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppCreateAutomation",
  "AutomationId": "a_cd61ddb*****47d21d6aeffa",
  "Icon": "https://www.***.com/",
  "Name": "autoName",
  "Status": 0, //Integration switch: 0: Disabled; 1: Enabled
  "MatchType": 1, //Condition match type: 0: All conditions AND; 1:
All conditions OR
  "EffectiveBeginTime": "00:00", // Two new configuration parameters,
indicate start and end times
```

```

    "EffectiveEndTime": "23:59",
    "EffectiveDays": "1111111", // A 7-digit number composed of 0s and
1s, where 0 means not execute and 1 means execute. The first digit
represents Sunday, followed by Monday to Saturday in sequence.
    "Conditions": [
        {
            "CondId": "abc", // Condition ID, ensure it is unique within
a linkage
            "CondType": 0, //Condition type: 0 - Device attribute value
condition; 1 - Scheduling condition
            "Property": {
                "ProductId": "N****4",
                "DeviceName": "gw**v",
                "AliasName": "devName",
                "IconUrl": "productIcon",
                "PropertyId": "switch", //Attribute ID of the device
                "Op": "eq", // Conditional operator. eq: equal. ne: not
equal. gt: more than. lt: less than. ge: larger than or equal to. le:
less than or equal to.
                "Value": 1 //Comparative Value
            }
        },
        {
            "CondId": "efg",
            "CondType": 1,
            "Timer": {
                "Days": "1000000", // A 7-digit number composed of 0s
and 1s, where 0 means not execute and 1 means execute. The first digit
represents Sunday, followed by Monday to Saturday in sequence.
                "TimePoint": "09:30" // Trigger time, 24-hour format,
for example, "14:00"
            }
        }
    ],
    "Actions": [
        {
            "ActionType": 0, // 0: Device action, specific parameter
setting is Data 0: Device action 1: Delay 2: Scenario 3:
Notification
            "ProductId": "R3****0EU",

```

```

    "DeviceName": "df***yY",
    "Data": "{\"brightness\": 25}", // ActionType is 0: Device
action parameter; 1: Delay in seconds; 2: Execution scene Id; 3:
Notification content
    "AliasName": "12345",
    "IconUrl": "url"
  },
  {
    "ActionType": 1, // 1: Delay action, specific delay time is
Data, value in seconds
    "Data": "100"
  }
],
"AccessToken": "***v2"
}

```

Output example: succeed

```
{"Response":{"RequestId":"req_1"}}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InternalServerError.InternalServerErrorExceptionDB	DB error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.NoPermission	The user has no permission for the device.
LimitExceeded	The quantity exceeds the limit.

Modify Automatic Intelligent Linkage Status

Last updated: 2025-04-30 16:16:14

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/appapi`.

This interface (AppModifyAutomationStatus) is used to modify the automatic intelligent linkage status.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameters, Access Token obtained upon successful login by users through WeChat ID, mobile phone or email account.
RequestId	String	Yes	Common parameters. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, provide the RequestId for the request.
Action	String	Yes	Common parameters. This interface takes values: AppModifyAutomationStatus.
AutomationId	String	Yes	Automatic intelligent linkage ID.
Status	int	Yes	Automatic intelligent linkage switch state. <ul style="list-style-type: none">0: Disable.1: Enable.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameters. Unique request ID, same as the input parameter. When locating issues, provide the RequestId for the request.

4. Example

Input example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppGetAutomationList",
  "AutomationId": "a_cd61dd*****1d6aeffea",
  "Status": 1, //Integration switch: 0: Disabled; 1: Enabled
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec"
}
```

Output sample: successful

```
{"Response": {"RequestId": "req_1"}}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InternalServerError.InternalServerExceptionDB	DB error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.NoPermission	User has no permission for the device.

Data Query

Retrieve the Device Object Model Data

Last updated: 2025-04-30 16:17:09

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreroopen/tokenapi`.

This interface (AppGetDeviceData) is used to obtain Device Object Model data.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppGetDeviceData.
ProductId	String	Yes	Product ID.
DeviceName	String	Yes	Device name.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. When locating issues, you need to provide the RequestId for the request.
Data	String	Return data.

4. Samples

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "req_1",
  "Action": "AppGetDeviceData",
  "ProductId": "22F9Y***O",
  "DeviceName": "light1",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec"
}
```

Output sample: successful

```
{
  "Response": {
    "Data": "{\\"brightness\\":
{\\\"Value\\":8,\\\"LastUpdate\\":1552904784552},\\\"color\\":
{\\\"Value\\":1,\\\"LastUpdate\\":1552904784552},\\\"light_switch\\":
{\\\"Value\\":0,\\\"LastUpdate\\":1552904784552},\\\"name\\":
{\\\"Value\\\":\\"light1\\",\\\"LastUpdate\\":1552904784552}}",
    "RequestId": "req_1"
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

6. Error Information

Name	Type	Description
Code	String	Error code.
Message	String	Error message.

Retrieve Device Object Model Historical Data

Last updated: 2025-04-30 16:17:24

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppGetDeviceDataHistory) is used to obtain Device Object Model historical data.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppGetDeviceDataHistory.
DeviceId	String	Yes	Device ID, product ID/device name.
FieldName	String	Yes	Inquiry attribute name.
Context	String	No	The paging cursor can be omitted for the initial query.
MinTime	Int	Yes	Start time, millisecond timestamp.
MaxTime	Int	Yes	End time, millisecond timestamp.
Limit	Int	Yes	Single page data volume.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. When locating issues, you need to provide the RequestId for the request.
Context	String	Pagination cursor
FieldName	String	Inquiry attribute name.
Listover	Bool	Whether all the data has been queried. <ul style="list-style-type: none">• True indicates that you can continue reading if not fully read.• False indicates that it has been completely read.
Results	Array of DataHistoryItem	Return data.

4. Samples

Example 1

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68",
  "Action": "AppGetDeviceDataHistory",
  "ProductId": "22F9Y6II70",
  "DeviceName": "light1",
  "MinTime": 1560949017000,
  "MaxTime": 1561035417000,
  "Limit": 20,
  "FieldName": "light_switch",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec"
}
```

Output example: successful

```
{
  "Response": {
    "Context": "abc",
    "FieldName": "brightness",
    "Listover": false,
    "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68",
    "Results": [
      {
        "Time": "1560949025494",
        "Value": "77"
      }
    ]
  }
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Getting Historical Events of Devices

Last updated: 2025-04-30 16:17:39

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`.

This interface (AppListEventHistory) is used to obtain the historical events of a device.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter, the Access Token obtained upon successful login by users through WeChat ID, mobile phone or email account.
RequestId	String	Yes	Common parameters, unique request ID, can be generated manually, recommended for use as uuid. Locating issues, need to provide the RequestId for the request.
Action	String	Yes	AppListEventHistory.
ProductId	String	Yes	product ID.
DeviceName	String	Yes	Device name.
Type	String	No	Event type to search: alert indicates an Alarm, fault indicates a failure, info indicates information. Leaving it blank means querying all the above event types.
StartTime	Int64	No	Start time (Unix timestamp, in seconds), 0 means current system time.
EndTime	Int64	No	End time (Unix timestamp, in seconds), 0 means current system time.
Context	String	No	Search context, used as query cursor.
Size	Int64	No	The maximum number of historical data items obtained at a time.
EventId	String	No	Event identifier can be used to specify a specified query for a specific event. If not specified, query all

events.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameters, unique request ID, consistent with the input parameters.
Context	String	Search context, used as query cursor.
Total	Int64	Number of search results.
Listover	Bool	Whether the search result has ended.
EventHistory	Array	Collect the result set.

4. Example

Example 1

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "AccessToken": "accesstoken*****acc",
  "RequestId": "026fe48b-0c31-4a7c-aaf6-83ba3e9s4bcf",
  "ProductID": "ABCDE12345",
  "DeviceName": "DEV",
  "StartTime": 0,
  "EndTime": 0,
  "Type": "info",
  "Size": 5,
  "Context": "",
  "Action": "AppListEventHistory"
}
```

Output example: successful

```
{
```

```

"Response": {
  "ClientToken": "1ee12*****7df703e0d",
  "OutputParams": "",
  "RequestId": "026fe48b-0c31-4a7c-aaf6-83ba3e9s4bcf",
  "Context":
"DnF1ZXJ5VGhlbkZld*****SUQ0UWVpZU1MLXI1QnBkbGc=",
  "EventHistory": [{
    "TimeStamp": 1553484903,
    "ProductId": "product1",
    "DeviceName": "light3",
    "EventId": "status_report",
    "Type": "info",
    "Data": "{\"status\": 0, \"message\": \"test
message:11:35:03.288277\"}"
  }],
  "Total": 1
}
}

```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Parameter value error
InvalidParameterValue.InvalidAccessToken	The Token is invalid.

Long Connection Communication

Registering Listening

Last updated: 2025-04-30 16:21:36

1. API Description

api request domain name: `wss://iot.cloud.tencent.com/iotstudio_v2_weapp_1`

This interface (DeviceRegistrationMonitor) is used to subscribe to the WS server. After successful subscription, device online/offline status and attribute data can be obtained through real-time push by listening to `ws.onmessage`.

2. Input Parameter

Name	Type	Required	Description
action	String	Yes	Common parameter, this interface takes values: ActivePush.
reqId	String	Yes	Common parameter, indicating the request sequence, unique request ID, which can be generated manually.
params	Object of ActionPushParam	Yes	Passed parameters when registering a device.

3. Output Parameters

Name	Type	Description
reqId	String	Common parameter, indicating the request sequence, consistent with the input parameter.
error	String	Status code, being empty indicates correct.
error_message	String	Detailed error description. Being empty indicates correctness.
data	Object of ActionPushData	Server response packet after listening.

4. Samples

Example 1

Input example (Convert data to a json string before sending)

```
const ws = new
WebSocket("wss://iot.cloud.tencent.com/iotstudio_v2_weapp_1")

ws.send(JSON.stringify({
  "action": "ActivePush",
  "reqId": "req0001",
  "params":{
    "DeviceIds": ["product ID/DeviceName", "product ID/DeviceName"]
    "AccessToken": "f6*****3aad"
  }
}));
```

Output sample: succeed

```
{
  "error": "",
  "error_message": "",
  "data": {
    "deviceIds": ["product ID/DeviceName", "product ID/DeviceName"]
  },
  "reqId": "req0001"
}
```

Output sample: failure

```
{
  "error": "",
  "error_message": "",
  "data": {
    "deviceIds": []
  },
  "reqId": "req0001"
}
```

Heartbeat

Last updated: 2026-04-03 17:48:39

1. API Description

API request domain name: `wss://iot.cloud.tencent.com/iotstudio_v2_weapp_1`

Device keep-alive. Update the device timestamp through this API to maintain the device's listening status and keep the WebSocket connection simultaneous. Multiple calls are allowed, once every 60 seconds.

2. Input Parameters

Name	Type	Required	Description
action	String	Yes	Common parameter, this interface takes values: YunApi.
reqId	String	Yes	Common parameter, indicating the request sequence, unique request ID, can be generated manually.
params	Object	Yes	For the detailed parameters passed in when calling the api, please see YunApiParam .

3. Output Parameters

Name	Type	Description
reqId	String	Common parameter, indicating the request sequence, same as the input parameter.
error	String	status code, being empty indicates correct.
error_message	String	Detailed error description, being empty indicates correct.
data	Object	For the server response of the Heartbeat API, please see HeartBeatData .

4. Samples

Input example (Convert data to json string before sending)

```
const ws = new
WebSocket("wss://iot.cloud.tencent.com/iotstudio_v2_weapp_1")

ws.send(JSON.stringify({
  "action": "YunApi",
  "reqId": "req0001",
  "params": {
    "Action": "AppDeviceTraceHeartBeat",
    "ActionParams": {
      "DeviceIds": ["product ID/device name", "product ID/device
name"]
      "AccessToken": "f6*****3aad",
      "RequestId": "rest-client"
    }
  }
}))
```

Output sample: successful

```
{
  "error": "",
  "error_message": "",
  "data": {
    "Response": {
      "RequestId": "rest-client"
    }
  },
  "reqId": "req0001"
}
```

Output sample: failure (server error)

```
{
  "error": "-1",
  "error_message": "Error connecting with backend, contact the admin"
  "data": {},
  "reqId": "req0001"
}
```

Output sample: failure (logic error)

```
{
  "error": "",
  "error_message": "",
  "data": {
    "Response": {
      "Error": {
        "Code":
"UnauthorizedOperation.APPNoPermissionToStudioProduct",
        "Message": "App has no permission to perform operations
on this product"
      },
      "RequestId": "rest-client"
    }
  },
  "reqId": "req0001"
}
```

Device Status Push

Last updated: 2025-04-30 16:22:04

1. API Description

api request domain name: `wss://iot.cloud.tencent.com/iotstudio_v2_weapp_1`

Device status push is used to obtain the online and offline status of user-bound devices, attributes and events reported by devices, and execution results of device behaviors in real time in mini programs or apps. It is required to successfully call the registered device listening API and obtain real-time push of device status and attribute values through listening to WebSocket's OnMessage. If the obtained `event.data.push` is `true`, it signifies that the message is a proactive push of device status change.

2. Input Parameter

Name	Type	Description
push	Boolean	This message is a proactive push for device status change.
action	String	Fixed as <code>DeviceChange</code> , representing device status change.
params	String	Return device information. See detailed explanation in message type description .

3. Output Parameters

Name	Type	Description
RequestId	String	Request ID.

4. Example

Application Side ws Subscription to Device Status Change

Request Sample

```
ws.onmessage = (event) => {  
  let data;  
  try {  
    data = JSON.parse(event.data);  
  }  
}
```

```
    } catch (e) {
      console.log(`onMessage parse event.data error: ${event.data}`);
      return;
    }

    if (data.push) {
      this.emit('push', data);
    } else if (typeof data.reqId !== 'undefined' &&
this.requestHandlerMap.has(data.reqId)) {
      this.requestHandlerMap.get(data.reqId)(null, data);
    }
  }
};
```

Input Parameter Example:

```
{
  "action": "DeviceChange",
  "params": {
    "Time": "2023-07-13T14:19:48+08:00",
    "Type": "Property",
    "SubType": "Report",
    "Topic": "$thing/up/property/productId/deviceName",
    "Payload": "ey*****iOjQwfX0=",
    "Seq": 1689229188406,
    "DeviceId": "productId/deviceName"
  },
  "push": true
}
```

Output Example: Succeed

```
{
  "Response": {
    "RequestId": "up03"
  }
}
```

5. Parameter Descriptions

Parameter Name	Parameter Type	Description
Time	String	Time, in UTC format, for example: 2023-07-13T14:19:48+08:00.
Type	String	Message type. See Type description .
SubType	String	Message subtype. See SubType description .
Topic	String	Message Topic. Log in to IoT Explorer Console and enter the target product development page. Select Device Development > Topic List to view.
Payload	String	Message body base64 encoded content. See Payload description .
Seq	Int64	Serial number.
DeviceId	String	Device ID, product ID in deviceName format.

Type Description

Type	Description
StatusChange	Device status change message, including device online and offline notification.
Shadow	Shadow messages.
Property	Attribute message.
Template	Thing model message.
Event	Event message.
Action	Behavior message.
UserDefined	Custom.


```

    "Type": "Template",
    "SubType": "Push",
    "Topic": "",
    "Payload":
"eyJtZXRob2QiOiJjb250cm9sIiwia2xpZW50VG9rZW4iOiIxMjM0NTY3OCIsInBhcmFtcyI6eyJzd2l0Y2giOiB9fQ==",
    "Seq": 1689231611907,
    "DeviceId": "productId/deviceName"
  },
  "push": true
}

```

base64 decoded message body of the Payload

See detailed explanation in [Thing Model](#).

```

{
  "method": "control",
  "clientToken": "12345678",
  "params": {
    "switch": 0
  }
}

```

Event Message Example

```

{
  "Time": "2019-04-11T20:42:36+08:00",
  "Type": "Event",
  "SubType": "Report",
  "Topic": "$thing/up/event/US4CJ11DIK/LIAO",
  "Payload":
"ewogICAgICAgICJtZXRob2QiOiAiZXZlbnRfcG9zdCIsc2l0Y2giOiB9fQ==",
  "Seq": 300,
  "DeviceId": "US4CJ11DIK/LIAO"
}

```



```
"DeviceId": "0CPSFIRP28/testble"
}
```

base64 decoded message body of the Payload

```
{
  "method": "action",
  "clientToken": "136947493::req_1",
  "actionId": "light_blink",
  "timestamp": 1620912845,
  "params": {
    "color": 1,
    "time": 6,
    "total_time": 60
  }
}
```

Action message report example

```
{
  "Time": "2021-05-13T21:34:05+08:00",
  "Type": "Action",
  "SubType": "Report",
  "Topic": "",
  "Payload":
  "eyJtZXRob2QiOiJhY3Rpb25fcmVwbHkiLCJjbGllbnRUb2t1biI6IjEzNjk0NzQ5Mzo6cmVxXzEiLCJjb2RlIjowLCJzdGF0dXMiOiJzdWNjIiwicmVzcG9uc2UiOnsicmVzdWx0IjogMX19",
  "Seq": 1620912845,
  "DeviceId": "0CPSFIRP28/testble"
}
```

base64 decoded message body of the Payload

```
{
  "method": "action_reply",
  "clientToken": "136947493::req_1",
  "code": 0,
  "status": "succ",
}
```

```
"response": {  
  "result": 1  
}
```

Cloud Storage Service

Pull Cloud Storage Event List

Last updated: 2025-04-30 16:22:31

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`

This interface (lotVideoDescribeCloudStorageEvents) is used to pull the Cloud Storage Event list.

2. Input Parameters

Name	Type	Required	Description
Action	String	Yes	common parameter, this interface takes values: lotVideoDescribeCloudStorageEvents.
RequestId	String	Yes	common parameter, unique request ID, can be generated manually, uuid is recommended. Locating issues, need to provide the RequestId for the request.
AccessToken	String	Yes	common parameter, AccessToken is used for user authentication of a logged-in user.
ProductId	String	Yes	product ID.
DeviceName	String	Yes	Device name.
StartTime	Integer	No	Start time (Unix timestamp, in seconds), 0 means current system time - 24h
EndTime	Integer	No	End time (Unix timestamp, in seconds), 0 means current time
Context	String	No	Request context, used as query cursor
Size	Integer	No	The maximum number of data items that can be queried is 10 by default. Assuming Size=10 is passed,

			and the actual number of events returned is N, then $5 \leq N \leq 10$.
EventId	String	No	Event identifier can be used to specify a query for a specific event. If not specified, all events will be queried.
UserId	String	No	User ID
ChannelId	Integer	No	Channel ID. Leave it blank for non-NVR devices. Required for NVR devices. None by default.

3. Output Parameters

Name	Type	Description
RequestId	String	RequestId.
Events	Array of CloudStorageEvent	Cloud Storage Event List
Context	String	Request context, used as query cursor
Listover	Boolean	Whether pulling results has ended
Total	Integer	Number of internal results, which is not equivalent to the total number of events
VideoURL	String	Video playback URL

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "Action": "AppDescribeTemplateBinding",
  "AccessToken": "bf*****d098",
  "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68",
  "ProductId": "PRODUCT_ID",
```

```
"DeviceName": "DEVICENAME"
}
```

Output sample: successful

```
{
  "Response": {
    "RequestId": "bd3ad0f6-5b9f-47cd-83db-223356926772",
    "Total": 13,
    "Events": [
      {
        "StartTime": 842084401,
        "EndTime": 842084401,
        "Thumbnail": "",
        "EventId": "id1_data"
      },
      {
        "StartTime": 842084401,
        "EndTime": 842084401,
        "Thumbnail": "",
        "EventId": "id1_data"
      },
      {
        "StartTime": 842084401,
        "EndTime": 842084401,
        "Thumbnail": "",
        "EventId": "id1_data"
      },
      {
        "StartTime": 1614847697,
        "EndTime": 167000000,
        "Thumbnail": "face_dection.jpg",
        "EventId": "id1_data"
      },
      {
        "StartTime": 1614847697,
        "EndTime": 167000000,
        "Thumbnail": "face_dection.jpg",
        "EventId": "id1_data"
      }
    ]
  }
}
```

```
    },
    {
      "StartTime": 1614847697,
      "EndTime": 1670000000,
      "Thumbnail": "face_dection.jpg",
      "EventId": "id1_data"
    },
    {
      "StartTime": 1614847697,
      "EndTime": 1670000000,
      "Thumbnail": "face_dection.jpg",
      "EventId": "id1_data"
    },
    {
      "StartTime": 1614847697,
      "EndTime": 1670000000,
      "Thumbnail": "face_dection.jpg",
      "EventId": "id1_data"
    },
    {
      "StartTime": 1614847697,
      "EndTime": 1670000000,
      "Thumbnail": "face_dection.jpg",
      "EventId": "id1_data"
    }
  ],
  "Context":
  "DnF1ZXJ5VGh1bkZldGNoKAAAAAABxjxlFm1DUHBXME5XVE55eUdHMDUwZTV4WWcAAAAAca
q9BZFEGQwTXM5X1RvNnFRMFNhRm1MNT1RAAAAAAHGqvYWRXhkME1zOV9UbzZxUTBTYUZtTDU
5UQAAAAAABxk0BFnN5Q1hWNUUp0UjcyZkZma2licmF3SmcAAAAAcaq9RZFEGQwTXM5X1RvNnF
RMFNhRm1MNT1RAAAAAAHGhvUWTz12c3FBNVdUWnFSWXh4d012MG1zdWAAAAAABxjxmFm1DUHB
XME5XVE55eUdHMDUwZTV4WWcAAAAAcaG9xZPOXZzcUE1V1RacVJZeHh3TXywaXN3AAAAAAH
GVbkWTVBJSndzX0VReVNoU3JOb2pWUm40UQAAAAAABxk0AFnN5Q1hWNUUp0UjcyZkZma2licmF
3SmcAAAAAcaG-
```

```

BZPOXZzcUE1V1RacVJZeHh3TXYwaXN3AAAAAAHGqvgWRXhkME1zOV9UbzZxUTBTYUZtTDU5U
QAAAAABxkfDFjdNdGYtaTR5UTBPNmFFcHkyUmlUVHcAAAAAAcY88hZOVnkwbjNfNFRqV2YwS
Wk1LWczc2V3AAAAAAHGhvyWTz12c3FBNVdUWnFSWXh4d012MGlzdwAAAAABxqr3FkV4ZDBNc
z1fVG82cVEwU2FGbUw1OVEAAAAAAcaG-
RZPOXZzcUE1V1RacVJZeHh3TXYwaXN3AAAAAAHGR8IWN010Zi1pNHlRME82YUvweTJSaVRUd
wAAAAABxquSFnJKTjhzbk5mUmZxMVVCCvhpVUNTZFEAAAAAAcY8ZxZpQ1BwVzBOV1ROeXlHR
zA1MGU1eFlnAAAAAAHGehEWTTRRa1JkRDhUek9qem1CSmNFbHhUZwAAAAABxqr5FkV4ZDBNc
z1fVG82cVEwU2FGbUw1OVEAAAAAAcZNBBZzeUNYVjVKdFI3MmZGZmtpYnJhd0pnAAAAAAHGV
boWTVBJSndzX0VReVNoU3JOb2pWUm40UQAAAAABxnoQFk00UWtSZEQ4VHpPanptQkpjRWx4V
GcAAAAAAcarkxZySk44c25OZlJmcTFVQnFYaVVDU2RRAAAAAAHGTQIWc3lDWFY1SnRSNzJmR
mZraWJyYXdKZwAAAAABxpZ4Fno4eVNTTD1LUVUyblVfMFFFcnhramcAAAAAAcY88xZOVnkwb
jNfNFRqV2YwSWk1LWczc2V3AAAAAAHGTQMwC3lDWFY1SnRSNzJmRmZraWJyYXdKZwAAAAABx
kfEFjdNdGYtaTR5UTBPNmFFcHkyUmlUVHcAAAAAAcar1BZySk44c25OZlJmcTFVQnFYaVVDU
2RRAAAAAAHGqvoWRXhkME1zOV9UbzZxUTBTYUZtTDU5UQAAAAABxpZ6Fno4eVNTTD1LUVUybl
VfMFFFcnhramcAAAAAAcZHxRY3TXRmLWk0eVEwTzZhRxB5MlJpVFR3AAAAAAHGVbsWTVBJS
ndzX0VReVNoU3JOb2pWUm40UQAAAAABxpZ5Fno4eVNTTD1LUVUyblVfMFFFcnhramcAAAAAA
cY8aBZpQ1BwVzBOV1ROeXlHRzA1MGU1eFlnAAAAAAHGqvsWRXhkME1zOV9UbzZxUTBTYUZtT
DU5UQAAAAABxpZ7Fno4eVNTTD1LUVUyblVfMFFFcnhramc=",
    "Listover": false,
    "VideoURL":
"http://test.iotvideo.tencentcs.com/timeshift/live/test.m3u8"
  }
}

```

Output example: failure

```

{
  "Response": {
    "Error": {
      "Code": "InvalidParameterValue.InvalidAccessToken",
      "Message": "Invalid Token"
    },
    "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68"
  }
}

```

5. Error Code

Error Code	Description
------------	-------------

InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.TokenInfoSaveError	Token saving failed.

Pulling Cloud Storage Event Thumbnails

Last updated: 2025-04-30 16:22:45

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`

This interface (lotVideoDescribeCloudStorageThumbnail) is used to pull the thumbnail of cloud storage events.

2. Input Parameters

Name	Type	Required	Description
Action	String	Yes	common parameter, this interface takes values: lotVideoDescribeCloudStorageThumbnail.
RequestId	String	Yes	common parameter, unique request ID, can be generated manually, recommended to use uuid. Locating issues, need to provide the RequestId for the request.
AccessToken	String	Yes	Common parameter, AccessToken is used for user authentication of a logged-in user.
ProductId	String	Yes	Product ID.
DeviceName	String	Yes	Device name.
Thumbnail	String	Yes	Thumbnail file name

3. Output Parameters

Name	Type	Description
RequestId	String	RequestId.

ThumbnailURL	String	Thumbnail access address
--------------	--------	--------------------------

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreroopen/tokenapi HTTP/1.1
content-type: application/json
{
  "Action": "AppDescribeTemplateBinding",
  "AccessToken": "bf*****d098",
  "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68",
  "ProductId": "PRODUCT_ID",
  "DeviceName": "DEVICENAME",
  "Thumbnail":
"/100008401725/AQTV2839QJ/sp01_32820237_7/events/1615200613.jpg"
}
```

Output sample: successful

```
{
  "Response": {
    "RequestId": "c299d2c9-805f-41a5-853d-db32ba1a16b5",
    "ThumbnailURL": "https://video-cv-1258344699.cos.ap-
guangzhou.myqcloud.com/%2F100008401725%2FAQTV2839QJ%2Fsp01_32820237_5%2F
events%2F1614908216.jpg?q-sign-algorithm=sha1&q-
ak=*****&q-sign-
time=1614909378%3B1614912978&q-key-time=1614909378%3B1614912978&q-
header-list=host&q-url-param-list=&q-
signature=59cfa8d69bb77980ba757cb111de62fc6c4880f5"
  }
}
```

Output example: fail

```
{
  "Response": {
    "Error": {
```

```
    "Code": "InvalidParameterValue.InvalidAccessToken",
    "Message": "Invalid Token"
  },
  "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68"
}
```

5. Error Code

Error Code	Description
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.TokenInfoSaveError	Token saving failed.

Get the Date with Cloud Storage

Last updated: 2025-04-30 16:22:59

1. API Description

API request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`

This interface (`lotVideoDescribeCloudStorageDate`) is used to obtain dates with cloud storage.

2. Input Parameters

Name	Type	Required	Description
Action	String	Yes	Common parameter, this interface takes values: <code>lotVideoDescribeCloudStorageDate</code> .
RequestId	String	Yes	Common parameter, unique request ID, can be generated manually, uuid is recommended for use. Locating issues, need to provide the RequestId for the request.
AccessToken	String	Yes	Common parameter, AccessToken is used for user authentication of a logged-in user.
ProductId	String	Yes	product ID.
DeviceName	String	Yes	Device name.
UserId	String	No	User ID

3. Output Parameters

Name	Type	Description
RequestId	String	RequestId.
Data	Array of String	Cloud storage date array, example value: <code>["2021-01-05","2021-01-06"]</code>

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "Action": "AppDescribeTemplateBinding",
  "AccessToken": "bf*****d098",
  "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68",
  "ProductId": "PRODUCT_ID",
  "DeviceName": "DEVICENAME"
}
```

Output sample: successful

```
{
  "Response": {
    "RequestId": "77d90d07-e48c-4cf0-bec5-afe5b137f80e",
    "Data": [
      "2021-01-14"
    ]
  }
}
```

Output example: failure

```
{
  "Response": {
    "Error": {
      "Code": "InvalidParameterValue.InvalidAccessToken",
      "Message": "Invalid Token"
    },
    "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68"
  }
}
```

5. Error Code

Error Code	Description
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.TokenInfoSaveError	Token saving failed.

Get Cloud Storage Timeline on a Certain Day

Last updated: 2025-04-30 16:23:14

1. API Description

API request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`

This interface (`lotVideoDescribeCloudStorageTime`) is used to obtain the Cloud Storage Timeline of a certain day.

2. Input Parameter

Name	Type	Required	Description
Action	String	Yes	Common parameter, this interface takes values: <code>lotVideoDescribeCloudStorageTime</code> .
RequestId	String	Yes	Common parameter, unique request ID, can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
ProductId	String	Yes	Product ID.
DeviceName	String	Yes	Device name.
Date	String	Yes	Cloud Storage Date, for example, "2020-01-05"
StartTime	Integer	No	Start Time, unix Timestamp
EndTime	Integer	No	End Time, unix Timestamp
UserId	String	No	User ID

3. Output Parameters

Name	Type	Description
RequestId	String	RequestId.
Data	CloudStorageTimeData	Returned data

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "Action": "AppDescribeTemplateBinding",
  "AccessToken": "bf*****d098",
  "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68",
  "ProductId": "PRODUCT_ID",
  "DeviceName": "DEVICENAME",
  "Date": "2021-01-14"
}
```

Output sample: successful

```
{
  "Response": {
    "RequestId": "ac74ecca-b866-4ab1-87e0-18b92816fb20",
    "Data": {
      "VideoURL": "47b9d579-9088-4cc2-a16e-2b8cf245319b",
      "TimeList": [
        {
          "StartTime": 1610607600,
          "EndTime": 1610608200
        },
        {
          "StartTime": 1610607600,
          "EndTime": 1610608200
        }
      ]
    }
  }
}
```

```
{
  {
    "StartTime": 1610607600,
    "EndTime": 1610608200
  },
  {
    "StartTime": 1610607600,
    "EndTime": 1610608200
  }
]
}
}
```

Output example: failure

```
{
  "Response": {
    "Error": {
      "Code": "InvalidParameterValue.InvalidAccessToken",
      "Message": "Invalid Token"
    },
    "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68"
  }
}
```

5. Error Code

Error Code	Description
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.TokenInfoSaveError	Token saving failed.

Getting Video Anti-Hotlinking Playback URL

Last updated: 2025-12-19 09:20:30

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`

This API (lotVideoGenerateSignedVideoURL) is used to getVideo anti-leech playback URL.

2. Input Parameters

Name	Type	Required	Description
Action	String	Yes	Common parameter, this interface takes values: lotVideoGenerateSignedVideoURL.
RequestId	String	Yes	Common parameter, unique request ID, can be generated manually, recommended to use uuid. Locating issues, need to provide the RequestId for the request.
AccessToken	String	Yes	Common parameter, AccessToken is used for user authentication of a logged-in user.
ProductId	String	Yes	Product ID.
DeviceName	String	Yes	Device name.
VideoURL	String	Yes	Original URL address for video playback
ExpireTime	Integer	Yes	Expiration time of the playback link

3. Output Parameter

Name	Type	Description
RequestId	String	RequestId.

SignedVideoURL	String	Anti-hotlinking playback URL for video
----------------	--------	--

4. Samples

Input example

```
POST https://iot.cloud.tencent.com/api/exploreroopen/tokenapi HTTP/1.1
content-type: application/json
{
  "Action": "AppDescribeTemplateBinding",
  "AccessToken": "bf*****d098",
  "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68",
  "ProductId": "PRODUCT_ID",
  "DeviceName": "DEVICENAME",
  "ExpireTime": 1619331648,
  "VideoURL":
"http://zylcb.iotvideo.tencentcs.com/timeshift/live/1.m3u8"
}
```

Output sample: successful

```
{
  "Response": {
    "SignedVideoURL":
"http://zylcb.iotvideo.tencentcs.com/timeshift/live/1.m3u8?sign=x",
    "RequestId": "xx"
  }
}
```

Output sample: fail

```
{
  "Response": {
    "Error": {
      "Code": "InvalidParameterValue.InvalidAccessToken",
      "Message": "Invalid Token"
    },
    "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68"
  }
}
```

```
}  
}
```

5. Error Code

Error Code	Description
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.TokenInfoSaveError	Token saving failed.

Pulling Image Streaming Data

Last updated: 2025-12-19 09:18:26

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`

This interface (`lotVideoDescribeCloudStorageStreamData`) is used to pull streaming data.

2. Input Parameters

Name	Type	Required	Description
Action	String	Yes	common parameter, this interface takes values: <code>lotVideoDescribeCloudStorageStreamData</code> .
RequestId	String	Yes	common parameter, unique request ID, can be generated manually, uuid is recommended. Locating issues, need to provide the RequestId for the request.
AccessToken	String	Yes	Common parameter, AccessToken is used for user authentication of a logged-in user.
ProductId	String	Yes	Product ID.
DeviceName	String	Yes	Device name.
StartTime	Integer	Yes	Start time

3. Output Parameters

Name	Type	Description
RequestId	String	RequestId.
VideoStream	String	Image stream video address
AudioStr	String	Image stream audio address

eam

4. Example

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "Action": "AppDescribeTemplateBinding",
  "AccessToken": "bf*****d098",
  "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68",
  "ProductId": "PRODUCT_ID",
  "DeviceName": "DEVICENAME",
  "StartTime": 1619331648
}
```

Output sample: successful

```
{
  "Response": {
    "VideoStream": "http://xxxxxxxx",
    "AudioStream": "http://xxxxxxxx",
    "RequestId": "xx"
  }
}
```

Output example: failure

```
{
  "Response": {
    "Error": {
      "Code": "InvalidParameterValue.InvalidAccessToken",
      "Message": "Invalid Token"
    },
    "RequestId": "f92406b3-5a9a-4fe8-bc43-45e3d794bb68"
  }
}
```

5. Error Code

Error Code	Description
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.TokenInfoSaveError	Token saving failed.

Music Service

Song in a Song List

Last updated: 2025-04-30 16:24:08

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi` This interface (playlist_song) is used to obtain songs in a song list.

2. Input Parameters

Name	Type	Required	Description
Access Token	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppKugouUserCommand.
KGCommand	String	Yes	Subcommand. This interface takes values: playlist_song.
DeviceId	String	Yes	Device Id consists of product Id and device Name.
KugouParams	Object of KugouParams_playlist_song	Yes	Parameters of the subcommand.

3. Output Parameter

Name	Type	Description
------	------	-------------

RequestId	String	Common parameter. Unique request ID, same as the input parameter. Locating issues, you need to provide the RequestId for the request.
ErrorCode	Integer	The error code returned by the request, 0 means no error.
ErrorMsg	String	The error information returned by the request.
Data	Object of Data_playlist_song	Returned result

4. Examples

Example 1

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "test0191119-012345",
  "Action": "AppKugouUserCommand",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec",
  "DeviceId": "LAEG4YJE1A/dev01",
  "KGCommand": "playlist_song",
  "KugouParams": {...}
}
```

Output example: successful

```
{
  "Response": {
    "Data": {...},
  },
  "ErrorCode": 0, "ErrorMsg": "",
  "RequestId": "keyi20191119-012345"
}
```

5. Error Code

Error Code	Description
InternalError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.InternalRPCError	Call timeout.
ResourceNotFound	The resource does not exist.
ResourceNotFound.DeviceNotExist	The device is not created or has been deleted.
ResourceNotFound.StudioProductNotExist	The product is not created or has been deleted.
ResourceNotFound.AppNotExists	The application is not created or has been deleted.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.DeviceNotGateway	Not a gateway device.
UnsupportedOperation.NotBindVirtualDevice	Unable to bind virtual device.
UnsupportedOperation.DeviceNotBind	The subdevice is not bound to the gateway device.
UnsupportedOperation.CannotBindSameFamily	The device has been bound. Do not perform repeat binding.
LimitExceeded	Exceed the limit.
LimitExceeded.FamilyDeviceExceedLimit	The device quantity exceeds the limit.
UnauthorizedOperation	No permission to operate.
UnauthorizedOperation.APPNoPermissionToStudioProduct	The App has no permission to operate this product.

Retrieve the Song Playback Link

Last updated: 2025-04-30 16:24:22

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi` This interface (song_url) is used to obtain the song playback link.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppKugouUserCommand.
KGCommand	String	Yes	Subcommand. This interface takes values: song_url.
DeviceId	String	Yes	Device Id consists of product Id and device Name.
KugouParams	Object of KugouParams_song_url	Yes	Parameters of the subcommand.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. Locating issues, you need to provide the RequestId for the request.

ErrorCode	Integer	The error code returned by the request, 0 means no error.
ErrorMsg	String	The error information returned by the request.
Data	Object of Data_song_url	Returning Result

4. Samples

Example 1

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "test0191119-012345",
  "Action": "AppKugouUserCommand",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec",
  "DeviceId": "LAEG4YJE1A/dev01",
  "KGCommand": "song_url",
  "KugouParams": {...}
}
```

Output Sample: successful

```
{
  "Response": {
    "Data": {...},
    "ErrorCode": 0, "ErrorMsg": "",
    "RequestId": "keyi20191119-012345"
  }
}
```

5. Error Code

Error Code	Description
------------	-------------

InternalError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.InternalRPCError	Call timeout.
ResourceNotFound	The resource does not exist.
ResourceNotFound.DeviceNotExist	The device is not created or has been deleted.
ResourceNotFound.StudioProductNotExist	The product is not created or has been deleted.
ResourceNotFound.AppNotExists	The application is not created or has been deleted.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.DeviceNotGateway	Not a gateway device.
UnsupportedOperation.NotBindVirtualDevice	Unable to bind virtual device.
UnsupportedOperation.DeviceNotBind	The subdevice is not bound to the gateway device.
UnsupportedOperation.CannotBindSameFamily	The device has been bound. Do not repeat binding.
LimitExceeded	Exceed the limit.
LimitExceeded.FamilyDeviceExceedLimit	The device quantity exceeds the limit.
UnauthorizedOperation	No permission to operate.
UnauthorizedOperation.APPNoPermissionToStudioProduct	The App has no permission to operate this product.

Daily Recommendation

Last updated: 2025-04-30 16:24:37

1. API Description

API request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`

This interface (`awesome_everyday`) is used to obtain the daily recommended playlist.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameters. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameters. A unique request ID can be generated manually. It is recommended to use uuid. When locating issues, provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: <code>AppKugouUserCommand</code> .
KGCommand	String	Yes	Subcommand. This interface takes values: <code>awesome_everyday</code> .
DeviceId	String	Yes	Device Id consists of product Id and device Name.
KugouParams	Object of KugouParams_awesome_everyday	Yes	Parameters of the subcommand.

3. Output Parameter

Name	Type	Description
------	------	-------------

RequestId	String	Common parameters. A unique request ID, same as the input parameter. When locating issues, provide the RequestId for the request.
ErrorCode	Integer	The error code returned by the request, 0 means no error.
ErrorMsg	String	The error information returned by the request.
Data	Object of Data_awesome_everyday	Returned result

4. Samples

Example 1

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "test0191119-012345",
  "Action": "AppKugouUserCommand",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec",
  "DeviceId": "LAEG4YJE1A/dev01",
  "KGCommand": "awesome_everyday",
  "KugouParams": {...}
}
```

Output example: succeed

```
{
  "Response": {
    "Data": {...},
    "ErrorCode": 0, "ErrorMsg": "",
    "RequestId": "keyi20191119-012345"
  }
}
```

}

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.InternalRPCError	Call timeout.
ResourceNotFound	The resource does not exist.
ResourceNotFound.DeviceNotExist	The device is not created or has been deleted.
ResourceNotFound.StudioProductNotExist	The product is not created or has been deleted.
ResourceNotFound.AppNotExists	The application is not created or has been deleted.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.DeviceNotGateway	Not a gateway device.
UnsupportedOperation.NotBindVirtualDevice	Unable to bind virtual device.
UnsupportedOperation.DeviceNotBind	The subdevice is not bound to the gateway device.
UnsupportedOperation.CannotBindSameFamily	The device has been bound. Do not perform repeat binding.
LimitExceeded	Exceed the limit.
LimitExceeded.FamilyDeviceExceedLimit	The device quantity exceeds the limit.
UnauthorizedOperation	No permission to operate.
UnauthorizedOperation.APPNoPermissionToStudioProduct	The App has no permission to operate this product.

Batch Querying Song Information

Last updated: 2025-04-30 16:24:50

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi` This interface (song_infos) is used for batch querying song information.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppKugouUserCommand.
KGCommand	String	Yes	Subcommand. This interface takes values: song_infos.
DeviceId	String	Yes	Device Id consists of product Id and device Name.
KugouParams	Object of KugouParams_song_infos	Yes	Parameters of the subcommand.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. Locating issues, you need

		to provide the RequestId for the request.
ErrorCode	Integer	The error code returned by the request, 0 means no error.
ErrorMsg	String	The error information returned by the request.
Data	Object of Data_song_infos	Returned result

4. Example

Example 1

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "test0191119-012345",
  "Action": "AppKugouUserCommand",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec",
  "DeviceId": "LAEG4YJE1A/dev01",
  "KGCommand": "song_infos",
  "KugouParams": {...}
}
```

Output example: succeed

```
{
  "Response": {
    "Data": {...}
  },
  "ErrorCode": 0, "ErrorMsg": "",
  "RequestId": "keyi20191119-012345"
}
```

5. Error Code

Error Code	Description
InternalServerError	An internal error occurred.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.InternalRPCError	Call timeout.
ResourceNotFound	The resource does not exist.
ResourceNotFound.DeviceNotExist	The device is not created or has been deleted.
ResourceNotFound.StudioProductNotExist	The product is not created or has been deleted.
ResourceNotFound.AppNotExists	The application is not created or has been deleted.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.DeviceNotGateway	Not a gateway device.
UnsupportedOperation.NotBindVirtualDevice	Unable to bind virtual device.
UnsupportedOperation.DeviceNotBind	The subdevice is not bound to the gateway device.
UnsupportedOperation.CannotBindSameFamily	The device has been bound. Do not repeat the binding.
LimitExceeded	Exceed the limit.
LimitExceeded.FamilyDeviceExceedLimit	The device quantity exceeds the limit.
UnauthorizedOperation	No permission to operate.
UnauthorizedOperation.APPNoPermissionToStudioProduct	The App has no permission to operate this product.

Recommended Playlist

Last updated: 2025-04-30 16:25:10

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi` This interface (playlist_awesome) is used to obtain a recommended playlist.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppKugouUserCommand.
KGCommand	String	Yes	Subcommand. This interface takes values: playlist_awesome.
DeviceId	String	Yes	Device Id consists of product Id and device Name.
KugouParams	Object of KugouParams_playlist_awesome	Yes	Parameters of the subcommand.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. When locating

		issues, you need to provide the RequestId for the request.
ErrorCode	Integer	The error code returned by the request, 0 means no error.
ErrorMsg	String	The error information returned by the request.
Data	Object of data_playlist_awesome	Returned result

4. Samples

Example 1

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "test0191119-012345",
  "Action": "AppKugouUserCommand",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec",
  "DeviceId": "LAEG4YJE1A/dev01",
  "KGCommand": "playlist_awesome",
  "KugouParams": {...}
}
```

Output example: successful

```
{
  "Response": {
    "Data": {...},
  },
  "ErrorCode": 0, "ErrorMsg": "",
  "RequestId": "keyi20191119-012345"
}
```

5. Error Code

Error Code	Description
InternalError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.InternalRPCError	Call timeout.
ResourceNotFound	The resource does not exist.
ResourceNotFound.DeviceNotExist	The device is not created or has been deleted.
ResourceNotFound.StudioProductNotExist	The product is not created or has been deleted.
ResourceNotFound.AppNotExists	The application is not created or has been deleted.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.DeviceNotGateway	Not a gateway device.
UnsupportedOperation.NotBindVirtualDevice	Unable to bind virtual device.
UnsupportedOperation.DeviceNotBind	The subdevice is not bound to the gateway device.
UnsupportedOperation.CannotBindSameFamily	The device has been bound. Do not repeat binding.
LimitExceeded	Exceed the limit.
LimitExceeded.FamilyDeviceExceedLimit	The device quantity exceeds the limit.
UnauthorizedOperation	No permission to operate.
UnauthorizedOperation.APPNoPermissionToStudioProduct	The App has no permission to operate this product.

New Song Release

Last updated: 2025-04-30 16:25:25

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi`

This interface (`awesome_newsong`) is used to obtain first release new songs.

2. Input Parameters

Name	Type	Required	Description
AccessToken	String	Yes	common parameter, AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter, unique request ID, can be generated manually. It is recommended to use uuid. When locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter, this interface takes values: AppKugouUserCommand.
KGCommand	String	Yes	Subcommand, this interface takes values: <code>awesome_newsong</code> .
DeviceId	String	Yes	Device Id consists of product Id and device Name.
KugouParams	Object of KugouParams_awesome_newsong	Yes	Parameters of the subcommand.

3. Output Parameter

Name	Type	Description
RequestId	String	Common parameter, unique request ID, same as the input parameter. When locating

		issues, you need to provide the RequestId for the request.
ErrorCode	Integer	The error code returned by the request, 0 means no error.
ErrorMsg	String	The returned error information of the request.
Data	Object of Data_awesome_newsong	Returned result

4. Example

Example 1

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "test0191119-012345",
  "Action": "AppKugouUserCommand",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec",
  "DeviceId": "LAEG4YJE1A/dev01",
  "KGCommand": "awesome_newsong",
  "KugouParams": {...}
}
```

Output example: successful

```
{
  "Response": {
    "Data": {...},
  },
  "ErrorCode": 0, "ErrorMsg": "",
  "RequestId": "keyi20191119-012345"
}
```

5. Error Code

Error Code	Description
InternalError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.InternalRPCError	Call timeout.
ResourceNotFound	The resource does not exist.
ResourceNotFound.DeviceNotExist	The equipment is not created or has been deleted.
ResourceNotFound.StudioProductNotExist	The product is not created or has been deleted.
ResourceNotFound.AppNotExists	The application is not created or has been deleted.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.DeviceNotGateway	Not a gateway device.
UnsupportedOperation.NotBindVirtualDevice	Unable to bind virtual device.
UnsupportedOperation.DeviceNotBind	The subdevice is not bound to the gateway device.
UnsupportedOperation.CannotBindSameFamily	The device has been bound. Do not repeat binding.
LimitExceeded	Exceed the limit.
LimitExceeded.FamilyDeviceExceedLimit	The device quantity exceeds the limit.
UnauthorizedOperation	No permission to operate.
UnauthorizedOperation.APPNoPermissionToStudioProduct	The App has no permission to operate this product.

User Logout

Last updated: 2025-04-30 16:25:38

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi` This interface (user_logout) is used for user logout.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues, you need to provide the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppKugouUserCommand.
KGCommand	String	Yes	Subcommand. This interface takes values: user_logout.
DeviceId	String	Yes	Device Id consists of product Id and device Name.
KugouParams	Object of KugouParams_user_logout	Yes	Parameters of the subcommand.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. Locating

		issues, you need to provide the RequestId for the request.
ErrorCode	Integer	The error code returned by the request, 0 means no error.
ErrorMsg	String	The error information returned by the request.
Data	Object of data_user_logout	Returned result

4. Example

Example 1

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "test0191119-012345",
  "Action": "AppKugouUserCommand",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec",
  "DeviceId": "LAEG4YJE1A/dev01",
  "KGCommand": "user_logout",
  "KugouParams": {...}
}
```

Output example: successful

```
{
  "Response": {
    "Data": {...},
  },
  "ErrorCode": 0, "ErrorMsg": "",
  "RequestId": "keyi20191119-012345"
}
```

5. Error Code

Error Code	Description
InternalError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.InternalRPCError	Call timeout.
ResourceNotFound	The resource does not exist.
ResourceNotFound.DeviceNotExist	The device is not created or has been deleted.
ResourceNotFound.StudioProductNotExist	The product is not created or has been deleted.
ResourceNotFound.AppNotExists	The application is not created or has been deleted.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.DeviceNotGateway	Not a gateway device.
UnsupportedOperation.NotBindVirtualDevice	Unable to bind virtual device.
UnsupportedOperation.DeviceNotBind	The subdevice is not bound to the gateway device.
UnsupportedOperation.CannotBindSameFamily	The device has been bound. Do not repeat the binding.
LimitExceeded	Exceed the limit.
LimitExceeded.FamilyDeviceExceedLimit	The device quantity exceeds the limit.
UnauthorizedOperation	No permission to operate.
UnauthorizedOperation.APPNoPermissionToStudioProduct	The App has no permission to operate this product.

User Information

Last updated: 2025-04-30 16:25:53

1. API Description

api request domain name: `iot.cloud.tencent.com/api/exploreropen/tokenapi` This interface (user_info) is used to retrieve user information.

2. Input Parameter

Name	Type	Required	Description
AccessToken	String	Yes	Common parameter. AccessToken is used for user authentication of a logged-in user.
RequestId	String	Yes	Common parameter. Unique request ID can be generated manually. It is recommended to use uuid. Locating issues requires providing the RequestId for the request.
Action	String	Yes	Common parameter. This interface takes values: AppKugouUserCommand.
KGCommand	String	Yes	Subcommand. This interface takes values: user_info.
DeviceId	String	Yes	Device Id consists of product Id and device Name.
KugouParams	Object of KugouParams_user_info	Yes	Parameters of the subcommand.

3. Output Parameters

Name	Type	Description
RequestId	String	Common parameter. Unique request ID, same as the input parameter. Locating issues

		requires providing the RequestId for the request.
ErrorCode	Integer	The error code returned by the request, 0 means no error.
ErrorMsg	String	The returned error information of the request.
Data	Object of Data_user_info	Returned result

4. Example

Sample 1

Input Example

```
POST https://iot.cloud.tencent.com/api/exploreropen/tokenapi HTTP/1.1
content-type: application/json
{
  "RequestId": "test0191119-012345",
  "Action": "AppKugouUserCommand",
  "AccessToken": "8b4a70dd16105f*****18edd4e78a3bb8ec",
  "DeviceId": "LAEG4YJE1A/dev01",
  "KGCommand": "user_info",
  "KugouParams": {...}
}
```

Output example: succeed

```
{
  "Response": {
    "Data": {...}
  },
  "ErrorCode": 0, "ErrorMsg": "",
  "RequestId": "keyi20191119-012345"
}
```

5. Error Code

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.InvalidAccessToken	The Token is invalid.
InvalidParameterValue.InternalRPCError	Call timeout.
ResourceNotFound	Resource does not exist.
ResourceNotFound.DeviceNotExist	The device is not created or has been deleted.
ResourceNotFound.StudioProductNotExist	The product is not created or has been deleted.
ResourceNotFound.AppNotExists	The application is not created or has been deleted.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.DeviceNotGateway	Not a gateway device.
UnsupportedOperation.NotBindVirtualDevice	Unable to bind virtual device.
UnsupportedOperation.DeviceNotBind	The subdevice is not bound to the gateway device.
UnsupportedOperation.CannotBindSameFamily	The device has been bound. Do not repeat binding.
LimitExceeded	Exceed the limit.
LimitExceeded.FamilyDeviceExceedLimit	The device quantity exceeds the limit.
UnauthorizedOperation	No permission to operate.
UnauthorizedOperation.APPNoPermissionToStudioProduct	The App has no permission to operate this product.