Quickstart ALLIoT Northbound API

You can use Postman for testing the API https://www.getpostman.com/

API Url: https://160.44.201.125:8743

Setup Postman

Open Settings

1. General

- SSL Verification off

2. Certificates ---> Add Certificate

- Host: 160.44.201.125:8743
- CRT File --> choose "plt-app-gw.crt" from Northbound API Folder
- Key File --> choose "plt-app-key.crt" from Northbound API Folder
- Password: IoT2018@HW

No you need the APP_ID and Password from (01 Quickstart ALLIoT)

Login

2.1 Secure Access of Applications (Northbound API.pdf / Page 6)

Request

POST https://160.44.201.125:8743/iocm/app/sec/v1.1.0/login
Content-Type:application/x-www-form-urlencoded

```
Body:
{
    appId=******&secret=******
}
```

Response

```
Status Code: 200 OK
Content-Type: application/json
Body:
{
    "scope": "default",
    "tokenType": "bearer",
    "expiresIn": "*******",
    "accessToken": "*******",
```

```
        "refreshToken": "*******"
    }
```

In all other request you need the **accessToken**, **deviceId** and the **appId**

Get Device Info

2.9.2 Query Information About a Device (Northbound API.pdf / Page 194)

Request

GET https://160.44.201.125:8743/iocm/app/dm/v1.3.0/devices/{deviceId}?appId={appId}

```
Header:
"app_key: <<appId>
"Authorization:Bearer <<accessToken>>
Content-Type:application/json;
```

Get Device Data

2.9.8 Query Historical Device Data (Northbound API.pdf / Page 207)

Send Device Commands

2.11.12 Create a Device Command (V4) (Northbound API.pdf / Page 320)

Request

POST https://160.44.201.125:8743/iocm/app/cmd/v1.4.0/deviceCommands

```
Header:
"app_key: <<appId>
"Authorization:Bearer <<accessToken>>
Content-Type:application/json;
```

Body for StringCommand:

```
{
  "deviceId": <<deviceID>>,
  "command": {
    "serviceId": "StringData",
    "method": "StringCmd",
    "paras": {
      "StringParamKey": "<<Key>>"
      "StringParamValue": "<<Value>>"

    }
```

```
      }
   }
```

Body for IntCommand:

```
{
  "deviceId": <<deviceID>>,
  "command": {
    "serviceId": "IntData",
    "method": "IntCmd",
    "paras": {
      "IntParamKey": "<<Key>>"
      "IntParamValue": <<Value>>

    }
  }
}
```

Response

```
{
    "commandId": "xxx",
    "appId": "<<appId>>",
    "deviceId": "<<deviceId>>",
    "command": {
        "serviceId": "xxx",
        "method": "xx",
        "paras": {
            "xx": yyy
        }
    },
    "expireTime": 172800,
    "status": "PENDING",
    "creationTime": "xxx",
    "issuedTimes": 0
}
```

Query Device Commands

2.11.13 Query Device Commands (V4) (Northbound API.pdf / Page 326)

Request

GET https://160.44.201.125:8743/iocm/app/cmd/v1.4.0/deviceCommands?
pageNo=0&pageSize=10&deviceId=
<<deviceId>&startTime=YYYYMMDDTHHmmssZ&endTime=YYYYMMDDTHHmmssZ

Response

Example on Northbound API.pdf / Page 329