

1.Documentation Explanation

Version	Instructions	Author	Time	Remarks
V1.0	New Version	俞宏禄	2023-12-12	<ul style="list-style-type: none">• Create a new interface for obtaining tokens• Create a new interface for enterprise operational data• Create a new interface for equipment operation data• Create a new interface for equipment basic data• Create a new interface for equipment operation data• Create a new interface for task data details• Create a new interface for task report details
V1.1	Edit	俞宏禄	2023-12-25	<ul style="list-style-type: none">• Modifications to the Details Interface for New Task Report• Addition of New Error Codes
V1.2	Edit	俞宏禄	2024-01-03	<ul style="list-style-type: none">• New Enterprise Inventory Data Interface• New Enterprise Historical Binding Data Interface• New Machine Alarm Data Interface• New Batch Machine Basic Data Query Interface

0. Production Server Address

<http://cleanrobot.yijiahe.com/>

1. Developer Account Application

Developer Account Application: Based on the information submitted by the user, generate the corresponding appld and appKey. At the same time, the applicant must have already created a corresponding organization in the cloud, and there should be related machine information.

appld, as a globally unique identifier, is mainly used to facilitate user identity recognition and data analysis. To prevent other users from making requests using someone else's appld maliciously, it is common to use a paired appKey, similar to a password. The appld and appKey are usually combined to generate a set of signatures, which are encrypted according to certain rules. When the requester initiates a request, this signature value needs to be submitted to the provider for verification. If the signature verification passes, data exchange can proceed; otherwise, it will be rejected. This mechanism ensures the security and accuracy of data, and improves the reliability and usability of the system.

2. Safety Specifications

All interfaces provided by the cloud open platform are HTTP interfaces, only in POST method (see specific interface description), and interface signature parameters are required when calling the interface.

To obtain the token interface, it is necessary to pass the additional appld parameter. Other interfaces do not require the appld parameter but need to pass the additional token parameter.

Parameter form is::

```
{
    "encryptScript": "XXX",
    "appId": "XXX"
}
或 {
    "encryptScript": "XXX",
    "token": "XXX"
}
```

2.1 Signature Instructions:

Suppose the appld assigned by the platform is **107d26abf9d84ddb**, and the appKey is **3bd62f3631f2536e**.

Taking the token acquisition interface as an example, let's discuss how to sign the parameters. Below are the parameters required by the interface.

NO.	Parameter Name	Parameter Value	Parameter Description
1	requestId	dc79e02e14ff4020bdb63cabefaf54ff	Each request's unique identifier, generated by the initiator, has a fixed length of 32 characters, and can only contain numbers or letters.
2	timestamp	1702363386633	Current request timestamp, accurate to milliseconds, for easy

NO.	Parameter Name	Parameter Value	Parameter Description
			diagnosis of network latency.
3	sign	To be calculated	The signature generated using the developer account's key will be calculated and compared by the cloud platform server using the same algorithm. Requests with inconsistent signatures will be rejected.

Note: The parameters page and pageSize do not participate in the signature.

The parameter "sign" is obtained through calculations using other parameters, and the calculation method is as follows:

Step1:

Arrange the parameter names in alphabetical order, a, b, c... x, y, z. If the first letter is the same, arrange them according to the second letter, and so on. The letters are not case-sensitive.

The result of arranging the above two parameters according to the rules is requestId timestamp.

Step2:

Replace the parameter name with the corresponding parameter value, the result is:dc79e02e14ff4020bdb63cabefaf54ff 1702363386633。

Step3:

Remove the spaces between the parameters, the result is:
dc79e02e14ff4020bdb63cabefaf54ff1702363386633.

Step4::

Place the appKey parameter value directly at the end, and the result is:dc79e02e14ff4020bdb63cabefaf54ff17023633866333bd62f3631f2536e。

Step5:

Using the MD5 signature algorithm, the calculated result is:
sign=MD5(dc79e02e14ff4020bdb63cabefaf54ff17023633866333bd62f3631f2536e)
sign=7d9686a1d00b3d14a5243defb0de6929

2.2 AES Encryption Description

Step1:

Calculate the sign parameter value according to the MD5 signature algorithm. :
sign=7d9686a1d00b3d14a5243defb0de6929

Step2:

Generate a JSON string with all the parameters, the order of the parameters is not required.

```
{
    "requestId": "dc79e02e14ff4020bdb63cabefaf54ff",
    "timestamp": "1702363386633",
    "sign": "7d9686a1d00b3d14a5243defb0de6929"
}
```

Step3:

Using the AES encryption algorithm, encrypt with appKey as the encryption key. Since the result of AES encryption is in a scrambled form, it is necessary to further encrypt the intermediate result using base64 encryption. Finally, the encryptScript result is:

bnSHtVhdh1rCcMF/FpU5sq4KAu0ftJNrV4LljXIbIdvGxy9/SPUV8R9k2DpxmLRTT+Y6OM0+B3wO7lC1OXnO9siQvnHEFh9qOojP5g9o9VGrcArpsbU5VyASK3JrPYbU24c3GAZ9dMc2QduM29bniZAthfJFPruZBJv3Q604/WU=

Add the additional appld parameter, the final complete request interface parameters are as follows:

```
{
    "encryptScript":
    "bnSHtVhdh1rCcMF/FpU5sq4KAu0ftJNrV4LljXIbIdvGxy9/SPUV8R9k2DpxmLRTT+Y6OM0+B3wO7lC1OXnO9siQvnHEFh9qOojP5g9o9VGrcArpsbU5VyASK3JrPYbU24c3GAZ9dMc2QduM29bniZAthfJFPruZBJv3Q604/WU=",
    "appId": "107d26abf9d84ddb"
}
```

2.3 Decryption Instructions:

Assuming the development information assigned by the platform is appId= 107d26abf9d84ddb and appKey= 3bd62f3631f2536e.

When requesting an interface, the interface will encrypt the plaintext data before responding, so it is necessary to decrypt it to know the plaintext data. For example, when requesting the token acquisition interface:

The response result json is as follows:

```
{
    "encryptScript":
    "Ltpu/ZZTbiocIcu+I9zZYzSMZqgCLzRyA08yC3a/r9QY4nGKdP9rf90FNb1LNT0pBKfVs4tVUbZBSODw1TDAodjcJ1EnpCw3e7NXs1cRCbxmgYNkmKfcDU/Fi82TOR84yxg+CrfyZg9BVm3BHLmuOQ9FR0uwP+oJCcbhHnKUY1HsVtxLmpihUe4RSIQihbYwK7G+hw8zRdjtSbaJcvx2hqwRa6j1f3nbpE9RC71EaZWS49mSfTVXDAu1lQnboeu3l7dAuaby3vQ3ArS15XxQ1LbJNJlJaZiLfsdYW6av1R9ZN5Mtawo1D8hI0gzdgxT"
}
```

You need to decrypt encryptScript, and the result after decryption is::

```
{
    "code": "200",
    "msg": "请求成功",
    "success": true,
    "requestId": "dc79e02e14ff4020bdb63cabefaf54ff",
    "timestamp": "1702365697256",
    "sign": "e7a9d4384ee70ef92670453ab3da6888",
}
```

```

    "data": {
        "token": "dJsaJQRCmUn2DS1vuAfM3/YuHNysZm9hbksGhUsRDAQ="
    }
}

```

When performing AES decryption, the appKey is also used as the key for decryption.

When conducting AES decryption, it is necessary to first decode the data using base64 before carrying out the actual AES decryption.

Field Name	Type	Mandatory	Remarks
code	String	Y	Response Code, 200=Success, Other Values=Failure
msg	String	Y	Request Status Information
success	Boolean	Y	Was the request successful or not? (True = Success, False = Failure)
requestId	String	Y	The value passed in during the callback request.
timestamp	String	Y	The current timestamp at the time of interface response
sign	String	Y	Interface to the response data signature
data	Object	Y	Return data

2.4 Signature Sign Generation Algorithm:

Example Code (JAVA):

```

import cn.hutool.core.util.StrUtil;

import java.util.ArrayList;
import java.util.Comparator;
import java.util.List;
import java.util.Map;

import static cn.hutool.crypto.SecureUtil.md5;

public class Md5Util {

    public static String getSDKV3Sign(Map<String, Object> params, String appKey, String... values) {
        if (params == null || StrUtil.isBlank(appKey)) {

```

```

        return null;
    }
    StringBuilder stringA = new StringBuilder();
    List<Map.Entry<String, Object>> mappingList = new
ArrayList<>(params.entrySet());
    mappingList= mappingList.stream().filter(mappingF
-> !mappingF.getKey().startsWith("page")).collect(Collectors.toList());
    mappingList.sort(Comparator.comparing(mappingF ->
mappingF.getKey().toLowerCase()));
    for (Map.Entry<String, Object> mapping : mappingList) {
        stringA.append(mapping.getValue() == null ? "" :
mapping.getValue());
    }
    for (String value : values) {
        stringA.append(value);
    }
    stringA.append(appKey);
    System.out.println("##### StringA = " + stringA);
    return md5(stringA.toString());
}
}

```

2.5 Encryption and Decryption Methods

Example Code (JAVA):

```

import cn.hutool.core.codec.Base64;
import javax.crypto.Cipher;
import javax.crypto.spec.SecretKeySpec;
public class AesUtil {
    /**
     * 云端 AES 加密方案
     */
    public static String aesEncryptSDK(String sSrc, String sKey) throws
Exception {
        if (sKey == null) {
            System.out.print("Key 为空 null");
            return null;
        }
        // 判断 Key 是否为 16 位
        if (sKey.length() != 16) {
            System.out.print("Key 长度不是 16 位");
            return null;
        }
        byte[] raw = sKey.getBytes("utf-8");
    }
}

```

```

        SecretKeySpec sKeySpec = new SecretKeySpec(raw, "AES");
        Cipher cipher = Cipher.getInstance("AES/ECB/PKCS5Padding");//"算法/
模式/补码方式"
        cipher.init(Cipher.ENCRYPT_MODE, sKeySpec);
        byte[] encrypted = cipher.doFinal(sSrc.getBytes("utf-8"));

        StringBuilder stringBuilder = new StringBuilder();
        if (encrypted == null || encrypted.length <= 0) {
            return null;
        }
        for (int i = 0; i < encrypted.length; i++) {
            int v = encrypted[i] & 0xFF;
            String hv = Integer.toHexString(v);
            if (hv.length() < 2) {
                stringBuilder.append(0);
            }
            stringBuilder.append(hv);
        }
        String base64Str = new Base64().encode(encrypted);//此处使用 BASE64 做
转码功能，同时能起到 2 次加密的作用。
        return base64Str;
    }

    /**
     * 云端设备 AES 解密
     */
    public static String aesDecrypt(String sSrc, String sKey) {
        try {
            // 判断 Key 是否正确
            if (sKey == null) {
                System.out.print("Key 为空 null");
                return null;
            }
            // 判断 Key 是否为 16 位
            if (sKey.length() != 16) {
                System.out.print("Key 长度不是 16 位");
                return null;
            }
            if (sSrc.length() < 32) {
                System.out.print("密文串错误");
                return null;
            }
            byte[] raw = sKey.getBytes("utf-8");
            SecretKeySpec sKeySpec = new SecretKeySpec(raw, "AES");

```

```

Cipher cipher = Cipher.getInstance("AES/ECB/PKCS5Padding");
cipher.init(Cipher.DECRYPT_MODE, sKeySpec);
byte[] encrypted1 = new Base64().decode(sSrc); //先用 base64 解密
try {
    byte[] original = cipher.doFinal(encrypted1);
    String originalString = new String(original, "utf-8");
    return originalString;
} catch (Exception e) {
    System.out.println(e);
    return null;
}
} catch (Exception ex) {
    System.out.println(ex);
    return null;
}
}
}

```

2.Interface Description

1. Get Token Interface

Interface Description

Address	/cloud/open/openapi/base/getToken		
Description	Get token		
Method	POST		
Field Name	Type	Mandatory	Remarks
appld	String	Y	Enterprise Application appid
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows::

FieldName	Type	Mandatory	Remarks
requestId	String	Y	Each request's unique identifier, generated by the initiator, is fixed at 32 characters in length and can only contain numbers or letters.
timestamp	String	Y	Current request timestamp, accurate to milliseconds, for diagnosing network latency.
sign	String	Y	The signature generated using the key of the developer account will be calculated and compared by the cloud platform server using the same algorithm, and requests with inconsistent signatures will be rejected.

Response Description:

FieldName	Type	Mandatory	Remarks
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows:

FieldName	Type	Mandatory	Remarks
code	String	Y	Response Code, 200=success, others = failure
msg	String	Y	Response Information
success	Boolean	Y	Success Indicator, Success true, Failure false
requestId	String	Y	requestId
timestamp	String	Y	
sign	String	Y	
data	Object		
token	String	Y	token

Request Example:

```
{
  "encryptScript":
  "bnSHtVhdh1rCcMF/FpU5sq4KAu0ftJNrV4L1jXIb1DvGxy9/SPUV8R9k2DpxmLRTT+Y60M0+B3
w071C10Xn09siQvnHEFh9q0ojP5g9o9VGrcArpsbU5VyASK3JrPYbU24c3GAZ9dMc2QduM29bni
ZAthfJFPruZBJv3Q604/WU=",
```

```
"appId": "107d26abf9d84ddb"
}
```

Response Example:

Encryption:

```
{
  "encryptScript":
  "Ltpu/ZZTbiocIcu+I9zZYzSMZqgCLzRyA08yC3a/r9QY4nGKdP9rf90FNb1LNT0pBKfVs4tVUb
  ZBSODw1TDAodjcJlEnpCw3e7NXslcRCbxmgYNkmKfcDU/Fi82TOR84yxg+CrfyZg9BVm3BHLmu0
  Q9FR0uwP+oJCcbhHnKUYlHsVtxLmpihUe4RSIQihbYwK7G+hW8zRdjtsBaJcvx2hqwRa6j1f3nb
  pE9RC71EaZWS49mSfTVXDAuilQnboeu3l7dAuaby3vQ3ArS15XxQ1LbJNJlJaZiLfsdYW6av1R9
  ZN5MtnawolD8hI0gzdgxT"
}
```

Decryption:

```
{
  "code": "200",
  "msg": "请求成功",
  "success": true,
  "requestId": "dc79e02e14ff4020bdb63cabefaf54ff",
  "timestamp": "1702365697256",
  "sign": "e7a9d4384ee70ef92670453ab3da6888",
  "data": {
    "token": "dJsaJQRCmUn2DS1vuAfM3/YuHNysZm9hbksGhUsRDAQ="
  }
}
```

2. Enterprise Operational Data Interface

Interface Description:

Address	/cloud/open/openapi/company/operational/info		
Description	Acquire enterprise operational data		
Method	POST		
Field Name	Type	Mandatory	Remarks
token	String	Y	Call the token interface to obtain
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows:

Field Name	Type	Mandatory	Remarks
requestId	String	Y	Each request's unique identifier, generated by the initiator, is fixed at 32 characters in length and can only contain numbers or letters.
timestamp	String	Y	Current request timestamp, accurate to milliseconds, for the convenience of diagnosing network latency.
sign	String	Y	Signatures generated using the developer account's key will be computed and compared by the cloud platform server using the same algorithm. Requests with inconsistent signatures will be rejected.
companyId	Long	Y	The companyId of the enterprise organization in the cloud

Response Description:

Field Name	Type	Mandatory	Remarks
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows :

Field Name	Type	Mandatory	Remarks
code	String	Y	Response Code, 200 for success, others for failure.
msg	String	Y	Response Information
success	Boolean	Y	Success Indicator, Success true, Failure false
requestId	String	Y	Request parameter requestId
timestamp	String	Y	Timestamp
sign	String	Y	Sign
data	Object		
deviceCount	int	Y	
deviceOfflineCount	int	Y	
deviceOnlineCount	int	Y	
snList	List	Y	Machine SN Collection
-	String	Y	Machine SN
subOrgList	List	Y	Collection of Enterprise Lists
-	Long	Y	Enterprise Lists (companyId)
taskTimesGroup	List	N	Number of times a single task
taskName	String	Y	taskName
taskTimes	int	Y	taskTimes
taskUuid	String	Y	taskUuid
totalCleanedArea	Double	Y	Cumulative cleaning area
totalCleanedTime	long	Y	Cumulative cleaning time

Field Name	Type	Mandatory	Remarks
totalTaskTimes	long	Y	Cumulative cleaning times
totalCleanedArea	Double	Y	Today's cleaning area
totalCleanedTime	long	Y	Today's cleaning time
totalTaskTimes	long	Y	Today's cleaning times

Request Example:

```
{
  "encryptScript":
  "5bTX4+A9ID5sXOYRQW3P93aJt0HIvfPxmJwpyCVNSja7BGVWdJczLgROlG8BmIEzzBMmXaUFq
aJ0No9u73wzdoTz2QXnu0Lt+3/iq1VRQUBgpAnt8Ri1PkYxwLmYNq8fz8Xi4RMX2qYtuzsY5Zt6
pVyJIWqgjYAR5DeKycyQoBiD+14EGnyY2M8yR13YGzTJ/jjOCNPokIqwR8urVyQ==",
  "token": "4aKkJw2reURz3bB0ov+7BrE1TzRFG+Yqv1w7vJSNe0w="
}
```

Response Example:

Encryption:

```
{
  "encryptScript":
  "Ltpu/ZZTbiocIcu+I9zZY1331D3N2ndHq+g4wF/DmwZXFmJrmY0Ldgq4YODtgWdKWgDZzko0IL
jV4Dn7VfPFfNJxNV6rgxfatpPu7wrBAn4ltJUUnqYbZADjrjwT1s0U/dd4bapkBxRkBFUkfPL9ZB9
qUD0pGmNhSRgq3ZNAorGdFZkVfipXHKqnBtJnNEy5TdNda32np8T+GeD38tDtIcgMXqxX5BEua
G4ydW0bLGheqCc6iKxQu1z9Pwrzg3+K9CXwaPljkZDnRCM9XmjJGZ005G9xR26gRIxsFsWEVQ3z
pTka6n0o3Zqy6VZMvUbQMd71VA1tX862zROPJBKtRN6i4bh33b39ED/5ezlpw51BkVSw52Y8uzZ
7iTLBledHpFh24L8+zJureUVYCCfoB7i/WSM45nJ1GWZeHYRLEDWalyX+Zj1FIh3epEf+1JIAA+
Y2/0cBOUnsIQtn9cGKAfHrH9XUH0CMjvENyBLEfmSaZcyVCfcqh1QkHBnLBwbfj3AnE5cg101BD
tKByPTQAwfintOvIMo8Besj2UPvmnsIn/ILEDmK+2mPYUaMns0kvtG3t04/7Crg/wVS7FZpPyga
dE0tpXFg6TXr1RD+Wh2n18xcJZdXuTTwr3LD8042+4siqPOZUmUV/jrPPxOysNiSqachid1TYDD
seprIp3KrrbwaAKfs0Epbpb/wBCgaJkcQORUVwA72+Brwoc2DcwEU7iS3mE9g+MxHB3qylh0o1D1
RmKd26e6fkIkPckaLR1HvmuvW5JvIzFEFl0xgEs4lRThpSKM4F8hFYs1a+ujSddmCFYcyqqBseS
RslbgMbcYwUdZNPAYQNdNZbhBKFEB4JtsrXpdrsvJO7l0zgb7Jp6uVfMHuu6vZgd0DC8P1lunv
yyD5aCAJO/vKYpjXQiFADp15DveEp+XmZMQYgGFGuJh35ztPvIZnTAQY27g7k2RNADJRP/KDSZ
Ng4AQsz/GVqB9+SXEZYb3vpTHw6thFrV5l8+6CbOMTq9F8bKEm7JY9QCP1M9E1YoSVqJSH7lvXc
euEGyX1Au9Yw+CZvAQqyosqeZ0ca07Ck60tCdW0u0Y+LKS Tb13MLfarw54vQvUkn3nS7KiUTyM
qaGETEHfJP/MuTzajt97e0lVHVjkAi+VXt1p7MD7rQ5VSD3MnlaMdgVZWfLiZibVC0H1zxABDX
RCHP7FVh/EeDEgns8qEqhAPVYSUGD6qFZWzH9PAVt0EGgDt+Cywhk4vqTUXC1/QgZndurJFLFhX
Yqwymj/pyUe3v1vjTea7BFk4JtNr881Zj7+mcgl1tRFMwmUKVuJnsC3s3MpAwo+RyNv06UeauVS
HMZIr1hGJFSake2p4TKOQp2lGECgkWUtYVcYIGIDL2BSB/H7wbqq9QpGXfZXhFbaMSqX2ktUU+nC
iQcSk792d4ZEIuLADMeMZVLnezoif29rA51BR0GPJT+NP+8MrdzjNvH7PYoxA/2jhcSeKWHrzyF
dqEfZ6nL+zDmruaf3NxV11yyGeYHChXHBWCDJiZARitritDM/5U0D0viw+/T5xq3vb6edVWwSc
X50Jk/q1/Q/L2Tm+M8B8NJ+QrAna/sAIs1NZj18FvY9LiZM0RBVv0SGYI6YHenTNRdDHxzG/RDg
GLDIbhf+fcKNPaq+cXq+bsGGzfr18QuvpAqsXPyADTPDZq9TrsR2TaZL4s="
}
```

Decryption:

```
{
  "code": "200",
  "msg": "请求成功",
  "success": true ,
  "requestId": "fdd6afea339e44079977e087c2021f84",
  "timestamp": "1702282323017",
  "sign": "514f656061a3f34197a6f12e6f699f02",
  "data": {
    "deviceCount": 8,
    "deviceOfflineCount": 8,
    "deviceOnlineCount": 0,
    "snList": ["XXX", "YYY", ],
    "subOrgList": ["7770480916012318720",
"7773511685454790656"],
    "taskTimesGroup": [{
      "taskName": "ai",
      "taskTimes": 1,
      "taskUuid": "95dfe9f4-901c-4714-b2c3-288e29d4e784"
    }],
    "todayCleanedArea": 0.0,
    "todayCleanedTime": 0,
    "todayTaskTimes": 0,
    "totalCleanedArea": 0.0,
    "totalCleanedTime": 0,
    "totalTaskTimes": 0
  }
}
```

3. Machine Operational Data Interface

Interface Instructions:

Address	/cloud/open/openapi/device/operational/info		
Description	Acquire machine operational data		
Method	POST		
Field Name	Type	Mandatory	Remarks
token	String	Y	Call the token interface to obtain
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows:

Field Name	Type	Mandatory	Remarks
requestId	String	Y	Each request's unique identifier, generated by the initiator, is fixed at 32 characters in length and can only contain numbers or letters.
timestamp	String	Y	Current request timestamp, accurate to milliseconds, for the convenience of diagnosing network latency.
sign	String	Y	Signatures generated using the developer account's key will be computed and compared by the cloud platform server using the same algorithm. Requests with inconsistent signatures will be rejected.
deviceSn	String	Y	Machine Serial Number

Response Description:

Field Name	Type	Mandatory	Remarks
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows :

Field Name	Type	Mandatory	Remarks
code	String	Y	Response Code, 200 for success, others for failure.
msg	String	Y	Response Information
success	Boolean	Y	Success Indicator, Success true, Failure false
requestId	String	Y	Request parameter requestId
timestamp	String	Y	Timestamp
sign	String	Y	Sign
data	Object		
totalCleanedArea	Double	Y	Cumulative cleaning area
totalCleanedTime	long	Y	Cumulative cleaning time
totalTaskTimes	long	Y	Cumulative cleaning times
todayCleanedArea	Double	Y	Today's cleaning area
todayCleanedTime	long	Y	Today's cleaning time
todayTaskTimes	long	Y	Today's cleaning times

Request Example:

```
{
  "encryptScript":
  "5bTX4+A9ID5X0YRQW3P93aJt0HIvfpxgmjwpyCVNShRDckRCMtDwSLD/tuxrujLlAx1cP41jM
+TqFygfMNUupWJSJ3xfrCABe6Wb7LTDfXJr8ypuyvHSmhg5MjFwSMCX+Hb98vmwULeEebguClnF
rcHW6IhJ/HtXn5xymTZ29JQTXsxzCMgBAKq9/+baEuXWl99Bf6Uueno0Q6l72cK6PcyFrysRVDV
emTCZs7s03iODF38e8e3LroRUEuHEhfE",
  "token": "B+kh9BDxs3e3dxEEyIoUmjfpgrNnr+FZMuhHqGIbJ4E="
}
```

Response Example:

Encryption:

```
{
```



```
    "encryptScript":  
    "Ltpu/ZZTbiocIcu+I9zZY133lD3N2ndHq+g4wF/DmwZXFmJrmY0Ldgq4YODtgWdKWgDZzko0IL  
jV4Dn7VfPFNB6FCOPyAZnnvwXfd1NHOMX+VUrTuEawXSK9gJbHYA6b+iwRMyGq8wK7f54AZlwGG  
//q2Jlo61R4XW+d0fPPydT69wZB3FuV2/qF6FAnwH4UhMo5CnaUYQKCRZS1hVxgYlgWs9ARFv5H  
jCL/cEup83/cAzrntBDLJh7KEuMMZpGTuOn6MRR9lHnuyQHUYQtx35vv5P dSb1XfqgkSxTVwI91  
NZzmFqmg8ESZVIYwmOSZM97avLXNevCGW0HV/6c54rcyE1ernb2Ao9I0C+FPQicf/6VIp8ufvZA  
7M9x7ou5F2/x44Zy+5pk5SL5P9ggPptULkz+rRtB1eHpXai+BgkCS2r9HEUED47mkkzNn7LjQF+  
cABXgh0NAVjQuUElTX1E8hdGxbqbhSjrn9HNYQIr1wLi0vb3rjCJBv44VUfo3mn"  
}
```

Decryption:

```
{  
    "code": "200",  
    "msg": "请求成功",  
    "success": true ,  
    "requestId": "a4d6a63226af44c7a21a10bc301adeb1",  
    "timestamp": "1702284411409",  
    "sign": "07c1f8e89992f7f4f5ba490cc9bd4c0f",  
    "data": {  
        "todayCleanedArea": 0.0,  
        "todayCleanedTime": 0,  
        "todayTaskTimes": 0,  
        "totalCleanedArea": 0.0,  
        "totalCleanedTime": 0,  
        "totalTaskTimes": 0  
    }  
}
```

4. Machine Status Data

Interface Instructions:

Address	/cloud/open/openapi/device/detail		
Description	Acquire the basic state data of the machine.		
Method	POST		
Field Name	Type	Mandatory	Remarks
token	String	Y	Call the token interface to obtain
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows:

Field Name	Type	Mandatory	Remarks
requestId	String	Y	Each request's unique identifier, generated by the initiator, is fixed at 32 characters in length and can only contain numbers or letters.
timestamp	String	Y	Current request timestamp, accurate to milliseconds, for the convenience of diagnosing network latency.
sign	String	Y	Signatures generated using the developer account's key will be computed and compared by the cloud platform server using the same algorithm. Requests with inconsistent signatures will be rejected.
deviceSn	String	Y	Machine Serial Number

Response Description:

Field Name	Type	Mandatory	Remarks
encryptScript	String	Y	Return the ciphertext of the parameter.

The decryption of the encryptScript parameter is as follows :

Field Name	Type	Mandatory	Remarks
code	String	Y	Response Code, 200 for success, others for failure.
msg	String	Y	Response Information
success	Boolean	Y	Success Indicator, Success true, Failure false
requestId	String	Y	Request parameter requestId
timestamp	String	Y	Timestamp
sign	String	Y	Sign
data	Object		
companyId	String	Y	Enterprise ID
deviceCode	String	Y	Machine Model
deviceSn	String	Y	Machine SN
deviceStatus	int	Y	Machine Online Status (0. Offline, 1. Online)
useStatus	int	Y	Machine Usage Status (0: Purchase, 1: Rental, 2: Trial)
warrantyStatus	int	Y	Warranty Status 0: Under Warranty 1: Under Warranty (Extended) 2: Out of Warranty
warrantyTime	Date	Y	Warranty Expiration Date
softwareVersion	String	N	Software Version
hardwareVersion	String	N	Hardware Version

Field Name	Type	Mandatory	Remarks
commStatus	String	N	Machine Communication Status
runningStatus	int	N	Operational Status
cleanWater	int	N	Clear water volume
wasteWater	int	N	Wastewater volume
remainingPower	int	N	Remaining Battery Level
DeviceName	String	N	Machine nickname

Request Example:

```
{
  "encryptScript":
  "5bTX4+A9ID55X0YRQW3P93aJt0HIvfpXgmjwpyCVNShRDckRCMtDwSLD/tuxrujLlAx1cP41jM
+TqFygfmmNUupWJSJ3xfrCABe6Wb7LTDfXJr8ypuyvHSmhg5MjFwSMCX+Hb98vmwULeEebguClNF
rcHW6IhJ/HtXn5xymTZ29JQTXsxzCMgBAkq9/+baEuXWl99Bf6Uueno0Q6l72cK6PcyFrysRVDV
emTCZs7s03i0DF38e8e3LroRUEuHEhfE",
  "token": "B+kh9BDxs3e3dxEEyIoUmjfpgrNnr+FZMuhHqGIbJ4E="
}
```

Response Example:

Encryption:

```
{
  "encryptScript":
  "Ltpu/ZZTbiocIcu+I9zZY133lD3N2ndHq+g4wF/DmwZXFmJrmY0Ldgq4YODtgWdKWgDZzko0IL
jV4Dn7VfPFNKjSfC2DHrC2Yxajpw10E91hyFLVtera+2umHgds4yHoRO/BuhI6LM1PzkwR+J5q
1v61d+Xn3+FfwKMn6TRNpNukCRStjoBoYCV/Sou5RT9QZ4wIjxpnWlJ3u1yWX17ns7y4eVdT6GF
hHuG7SNSAigBBXpikrmQN5XBG55o/04Wok19JCmtNBdMbE IgoM/eIZ2fB5qIsQ63KUxuo669u0m
LBt550UETecAt4TC50v2T5i9fjvCXG3r1dt6jVlC20FYdFiqVn/GR/DABlfr/ChtsapXTqgl9/s
kE3cEkJVH1vJp6Yau/vlYgUwMqPmquEImk9JHdm/pw+45nSgM1f1Wlv/Sn6S0rQ0FSSH7izNBf3
VnTiM5yWmroTycVtdVIjnrLJ2UUxvVszeF7XnPYhoolz2m562l3RuQ4BugAf7HyrjW5ZhOCLlOE
u6fLycapBfy2ztWjcZdBAJF990Cmy1BImyuxloEy0s5Fz1LlFLF9"
}
```

Decryption:

```
{
  "code": "200",
  "msg": "请求成功",
  "success": true,
  "requestId": "a4d6a63226af44c7a21a10bc301adeb1",
  "timestamp": "1702284663462",
  "sign": "880a9419130d672f84014a61737f19bb",
}
```

```
"data": {  
  "companyId": "7526833571430866944",  
  "deviceCode": "J40",  
  "deviceSn": "J40-21-CP-SZ342952-0040",  
  "deviceStatus": 0,  
  "useStatus": 1,  
  "warrantyStatus": 0,  
  "warrantyTime": "2024-09-01 23:59:59"  
}  
}
```

5. Machine Operation Data

Interface Instructions:

Address	/cloud/open/openapi/device/job/info		
Description	Acquire the task data index of the machine		
Method	POST		
Field Name	Type	Mandatory	Remarks
token	String	Y	Call the token interface to obtain
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows:

Field Name	Type	Mandatory	Remarks
requestId	String	Y	Each request's unique identifier, generated by the initiator, is fixed at 32 characters in length and can only contain numbers or letters.
timestamp	String	Y	Current request timestamp, accurate to milliseconds, for the convenience of diagnosing network latency.
sign	String	Y	Signatures generated using the developer account's key will be computed and compared by the cloud platform server using the same algorithm. Requests with inconsistent signatures will be rejected.
deviceSn	String	Y	Machine Serial Number

Response Description:

Field Name	Type	Mandatory	Remarks
encryptScript	String	Y	Return the ciphertext of the parameter.

The decryption of the encryptScript parameter is as follows:

Field Name	Type	Mandatory	Remarks
code	String	Y	Response Code, 200 for success, others for failure.
msg	String	Y	Response Information
success	Boolean	Y	Success Indicator, Success true, Failure false
requestId	String	Y	Request parameter requestId
timestamp	String	Y	Timestamp
sign	String	Y	Sign
data	Object		
mapList	List	N	Machine map list
mapName	String	Y	Machine all map names
mapUuid	Long	Y	Map uuid
reportList	List	N	Machine all task report list
reportUuid	Long	Y	Task report uuid
taskName	String	Y	Task name
startTime	Date	Y	Task start time
endTime	Date	Y	Task completion time
taskList	List	N	Machine task list
taskName	String	Y	Task name
taskUuid	Long	Y	Task uuid

Request Example:

```
{
  "encryptScript":
    "5bTX4+A9ID55X0YRQW3P93aJt0HIvf pXgmjwpyCVNShRDckRCMtDwSLD/tuxrujLlAx1cP41jM
    +TqFygf mNUupWJSJ3xfrCABe6Wb7LTDfXJr8ypuyvHSmhg5MjFwSMCX+Hb98vmwULeEebguCl nF
    rcHW6IhJ/HtXn5xymTZ29JQTXsxzCMgBAkq9/+baEuXWl99Bf6Uueno0Q6l72cK6PcyFrysRVDV
    emTCZs7s03iODF38e8e3LroRUEuHEhfE",
  "token": "B+kh9BDxs3e3dxEEyIoUmjfp gRNnr+FZMuhHqGIbJ4E="
}
```

Response Example:

Encryption:

```
{
  "encryptScript":
    "Ltpu/ZZTbiocIcu+I9zZY133lD3N2ndHq+g4wF/DmwZXFmJrmY0Ldgq4YODtgWdKWgDZzko0IL
    jV4Dn7VfPFNPjV5kYzs3D2PcnHRUMesB2tVxLifnw2keHaSnUyTKHx66oNlHtb2QyMnr/sfwwXj
    USpWUWYLa/QGk0uG9kd+F0kxWQgTVkfwAXSr fPofY7Yuxpk8x16T1tJw4b0NCAHDkual79RCE Ts
    ia76YpDTkubQz2JaB4F/2yQ+SEXZxXEF66nbW6Ph tISKixq+TSJiAy5iOHU8LfpPcw4esMKr1mM
    EZlYc9VOA4N+Q09JngI3FTReXA8hqmwKGJymSPfHtqsFdNrBxUMJ702ZgwSE1dkwgOLqOEBejr1
    QF3GDS9c8FNnZAdcKEIrvTEME08HmQ1Q=="
}
```

Decryption:

```
{
  "code": "200",
  "msg": "请求成功",
  "success": true,
  "requestId": "a4d6a63226af44c7a21a10bc301adeb1",
  "timestamp": "1702285579225",
  "sign": "49d95e5738ec45054124bef3279915d6",
  "data": {
    "mapList": [],
    "reportList": [],
    "taskList": []
  }
}
```


6. Task Data Details

Interface Instructions:

Address	/cloud/open/openapi/task/detail		
Description	Acquire the specific parameters of the task.		
Method	POST		
Field Name	Type	Mandatory	Remarks
token	String	Y	Call the token interface to obtain
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows:

Field Name	Type	Mandatory	Remarks
requestId	String	Y	Each request's unique identifier, generated by the initiator, is fixed at 32 characters in length and can only contain numbers or letters.
timestamp	String	Y	Current request timestamp, accurate to milliseconds, for the convenience of diagnosing network latency.
sign	String	Y	Signatures generated using the developer account's key will be computed and compared by the cloud platform server using the same algorithm. Requests with inconsistent signatures will be rejected.
taskUuid	String	Y	Task uuid

Response Description:

Field Name	Type	Mandatory	Remarks
encryptScript	String	Y	Return the ciphertext of the parameter.

The decryption of the encryptScript parameter is as follows :

Field Name	Type	Mandatory	Remarks
code	String	Y	Response Code, 200 for success, others for failure.
msg	String	Y	Response Information
success	Boolean	Y	Success Indicator, Success true, Failure false
requestId	String	Y	Request parameter requestId
timestamp	String	Y	Timestamp
sign	String	Y	Sign
data	Object		
taskName	String	Y	Task name
mapName	String	Y	Map name
mapUrl	List	N	Map url
mapImagePath	String	Y	Map FilePath
reverseInfo	String	Y	Task Reservation Information: isRevers Whether to reserve (true: Yes, false: No) reverseTime Reservation time (hour:hour, min:minute, week: weekday) Monday to Sunday are represented by numbers: 1, 2, 3, 4, 5, 6, 0
taskRunningStatus	int	N	Task Status (1. Paused 2. Idle 3. Running)
updateTime	Date	Y	Update time
deviceSn	String	Y	Machine Serial Number

Request Example:

```
{
  "encryptScript":
  "fc4bYVtskH+CDE2hJrPJjXo6Juxb06kQ+QankBmX9twojXRy5mST61CEcSY1ERuCo50QvDQs pg
  JSY7GDyWktudkkCwPQEeb+sMjxd4ARvnPREL62mA4ppTzLcFN10VE1+qQycwEBnYw7nDDy2NId
  feJ19JjHwNsGBVL+Tk07vfs4PZdSKr0mrDxBTAonoEg+7u6e+6LXNP4Y6E5NwD1TFyjYwtFD5uy
  XD4TZB1Gbo0=",
  "token": "mp0aHiAb8XDLjiBY5beGmJAKctTb6J2MxDLkPOCp4nQ="
}
```

Response Example:

Encryption:

```
{
  "encryptScript":
  "Ltpu/ZZTbiocIcu+I9zZYzSMZqgCLzRyA08yC3a/r9ScTVeq4MX2k6T7u8KwQJ+JiugTIYauOW
  4FdHlXrxbxtWiuQmgN+XPvkbteYI1lXOhQ1kFmuBd0IFoo7fodfnincG1SLR0PipnFvUK1xNMWW
  MoX+V4XIE65Fu0YfGJx2LZGdo09561YvnJwxcCLyxFnsgfqaveaYTSzvytA07GHuMT/d/E4G4F6
  g/oulPSwO3+f/iUeyzLlcEewJ9hamKUMHAMKZV5Mf7focYk11PLocLt1u9v53Ak14fjWEpaOAaw
  kTmuWziEEVWeXSSced27BGEUKh+2ufQdA7+dBqwlAFPnJyei0lZ0QckgBoNmGDax5GltD+vzI6o
  W3aIJ4EuKRzpjJxrUhTXrSh2MIAqnq0CN7DpmHkUwHR0ooKt4u5swM+k+FsmjVDdn/XmKnGd55/
  /KAK4ruQEi0VGxgOG8vfzE0XoC8AeePeTLZ4y5J6MOCqSxe1LyFI6f4rRk0CxPdaU+KKnGbdBLY
  YZ1e7U7BKvgZLy3XlJYWYGKZ5UwgeYNZaNVJ5xnKY0ixhIt6GkSPDyIQiEEGLMYNMxPr8rE6Xc5
  d3IK6EaQglzLAW6zRZOXpRlJlcl8rHJi9oV+RFZ8RhyQCwgL5DJMctFzv1zVU5bSISBX++iW0vp
  d8T6k4eJ2kzrVFYJnmcqBxMH5uHD70QSHm3T9lZ/tNVk1emXTQUdjXWObzSuNFS5ohUHuMxbht
  Gyk2nYEGGc7q1P0yA0tBMZju80VxEE9OFfAbuWx+pqPkzxGd1exNZQdT/DHexzJYbFWGRHAo0vK
  Wzv2mOy60Q122cHHxX0rPPdQPfiZiV9xvLSPUBg0k6Y5KDoHwww1NiNce+gfdmP6rTPUzEYXsb
  9Vuu1ux9/B/ZD0vgRapzDLkAHZ2BGDJacJ0eGz7Ds2hVg4XF0c4oLDgFcGueaBZeAmuLZytWvCf
  ptoBDiLSVL RxjNQR TDD7yH5r+YKM3XhB7YN0Q9nXtlZovbIbQUojg+LmQHfHU4G7rPQxbC xuNQ7
  D6kDWJA4S5qJKr6JYU6f1EcnlGAfoYSAsfA5TfwNlJHsQkRKLyIof8TcuGkdNXxe9jnsF5Q+jtSy
  IOVK4mwfEYAam58ws4U6EVtya63U033oqgIOKkZXzbtQgbHAq4gFdmuIFaBfTzXbcxZGWNVtn7l
  nJYpkA1myrqz0VjkqdSSnQBgJ1UFbM3WgoaGSGA=="
}
```

Decryption:

```
{
  "code": "200",
  "msg": "请求成功",
  "success": true,
  "requestId": "a8c7295d70f840bcb3507374f018d40",
  "timestamp": "1704167203423",
  "sign": "3f4f7b39ccc2b97029fa17e3126e2f79",
  "data": {
    "deviceSn": "J40-10-YJ-230302-0023",
    "mapImagePath": "/business/2023-9/maps/d68c62c5fdf644e6/2.png",
    "mapName": "2",
  }
}
```

```
    "mapUrl": "http://yjh-oss-bucket-test.oss-cn-shenzhen.aliyuncs.com/user/root/business/2023-9/maps/d68c62c5fd644e6/2.png?Expires=1704170803&OSSAccessKeyId=LTAI5tLzGj41xXeMUWM57799&Signature=zdzTCfuwMA02JWkxbJ00FMxd6Uo%3D" ,
    "pathList": [
      {
        "cleanArea": 9.120000000000001,
        "cleanMode": 1,
        "cleanTimes": 1,
        "id": "37ebca2f-9deb-42a5-87de-8da8ca0f1959",
        "strength": 1,
        "type": "coverage"
      }
    ],
    "reverseInfo":
    "{\\"isReverse\\":true,\\"reverseTime\\":[\\"hour\\":14,\\"min\\":0,\\"week\\":1},{\\"hour\\":14,\\"min\\":0,\\"week\\":2},{\\"hour\\":14,\\"min\\":0,\\"week\\":3},{\\"hour\\":14,\\"min\\":0,\\"week\\":4},{\\"hour\\":14,\\"min\\":0,\\"week\\":5}]",
    "taskName": "2-区域 1",
    "taskRunningStatus": 2,
    "taskStatus": 2,
    "taskUuid": "1012f5d5-dbac-4f08-be74-da0f09bd4252",
    "updateTime": "2023-09-11T16:30:19+08:00"
  },
  "taskUuid": "1012f5d5-dbac-4f08-be74-da0f09bd4252"
}
```

7. Task Report Details

Interface Instructions:

Address	/cloud/open/openapi/report/detail		
Description	Acquire detailed task report content		
Method	POST		
Field Name	Type	Mandatory	Remarks
token	String	Y	Call the token interface to obtain
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows:

Field Name	Type	Mandatory	Remarks
requestId	String	Y	Each request's unique identifier, generated by the initiator, is fixed at 32 characters in length and can only contain numbers or letters.
timestamp	String	Y	Current request timestamp, accurate to milliseconds, for the convenience of diagnosing network latency.
sign	String	Y	Signatures generated using the developer account's key will be computed and compared by the cloud platform server using the same algorithm. Requests with inconsistent signatures will be rejected.
reportUuid	String	Y	Task report uuid

Response Description:

Field Name	Type	Mandatory	Remarks
encryptScript	String	Y	Return the ciphertext of the parameter.

The decryption of the encryptScript parameter is as follows :

Field Name	Type	Mandatory	Remarks
code	String	Y	Response Code, 200 for success, others for failure.
msg	String	Y	Response Information
success	Boolean	Y	Success Indicator, Success true, Failure false
requestId	String	Y	Request parameter requestId
timestamp	String	Y	Timestamp
sign	String	Y	Sign
data	Object		
cleanTimes	Long	Y	Cleaning Duration
coveragePercent	Double	Y	Clean Coverage Rate
deviceName	String	Y	Machine Nickname
deviceSn	String	Y	Machine SN
endTime	Date	Y	Task completion time
finishArea	Double	Y	Cleaned area
reportPicUuid	String	Y	Image File uuid
startTime	Date	Y	Task Start Time
taskName	String	Y	Task Name
totalArea	Double	Y	Planned cleaning area
mapName	String	Y	Task Map

Field Name	Type	Mandatory	Remarks
taskStatus	Integer	Y	Task Status: 1、Successful 2、Failed 3、Paused 4、Cancelled
mapImageUrl	String	Y	Map FileUrl
mapImagePath	String	Y	Map FilePath
cleanModes	String	Y	Operating mode, multiple operating modes, separated by commas: 1.Floor washing 2.Sweeping 3.Mopping 4.Vacuuming 5.Dusting 6.AI
reportErrInfo	String	N	Alert Information (Only return value when task fails)

Request Example:

```
{
  "encryptScript":
  "U1KFwA6VLn00G/jNKe3HyjUHfxT+vkbAIiaUWaceBNkgnCHXnSmX7XXFuAqXsE8kDme01i9K9v
daUgSxBNWHWAH1vBDPf1YDM3MiKYxpt4KJgcPIChufJ7EmjlLIgtcMJ81JjVZqop0Ie3lXLzYWm
WfKtNmTLYzcw199XjKAMJjOMkSdHFyhN4PQ/RRiUBafbiLLWbZDP8jsDk3R+ZjL8A==" ,
  "token": "mp0aHiAb8XDLjiBY5beGmJAKctTb6J2MxDLkPOCp4nQ="
}
```

Response Example:

Encryption:

```
{
  "encryptScript":
  "U1KFwA6VLn00G/jNKe3HyjUHfxT+vkbAIiaUWaceBN15uw017j9XC8rF+rz8XYmPYFP4baClDr
Q+q3e8CQlyQHOGxGAzL7CBfHde1tYORfk60QBIV1Tfy3hThgLQziaeqGy5ze6VCnU0xs9pprke5
pJ4dyhAqBMmoylP00plcgilQtSxPV2kJsbyzG18t60Yp2P+B7q61NE3e9nvtG+T32hzOmZS9Ujg
fORwuNg3qH/av0ZTsdT+dPYJ8/9z5UCnvj7A53i/DgJcZVCgdbc8MkHxwz+WZC2ba+tESeRHFV0
9v58sejY/XjQMkMR9cugm116kRMvJHiUAA3e9koLK0m8ZrNV8g807z0njxZRqjU2rrkifbk+y0L
aWhTmjFA12/1FCqv6PccqVIzyMV8097MtIOPX6r191DMKSq02vbJZU7nM4Vggntm6wJcAETcd6V
Yt4+vs2LZ4qoxWiBzG8C+v0t3GTj0JMBKshIQLFJwNIdbSYhIuCPAbi9U0jZ4WlWuY+I5AMiLCM
qY8kEaug5kz/EnaFKX+A6Y0mQDQ7pag6KfNBTf9ubRPX5aUHNHxTf+Bv97KDKZfTS2F9x8RfdCw
aNbiwKtjbS4K1VKbQuBcrs6FbzNF202wFoly/HaG9d2jPHPzpLIzAku87B8uh+2QzHK6YaS1wB
aLN0TsXjZI2xi7rwoJntTBk063QLTbLcw2m0Vhkrp2jSmLtjM2+k9eL2y0pcxn7GsD4lQuqJ0="
}
```

```
}
```

Decryption:

```
{
  "code": "200",
  "msg": "请求成功",
  "success": true,
  "requestId": "d7564d26271344619513f8e649db7208",
  "timestamp": "1704168814343",
  "sign": "2782da5423a33e63f16be5a533fdcf22",
  "data": {
    "cleanModes": "1",
    "cleanTimes": 945130,
    "coveragePercent": 0.8658871650695801,
    "deviceName": "仿真机器",
    "deviceSn": "J40-10-YJ-230302-0023",
    "endTime": "2023-09-06T11:56:50+08:00",
    "finishArea": 145.88,
    "mapName": "bz1",
    "reportPicUuid": "7547865957824200704",
    "startTime": "2023-09-06T11:41:05+08:00",
    "taskName": "bz1",
    "taskStatus": 2,
    "totalArea": 167.09
  }
}
```


8. Corporate Inventory Data

Interface Instructions:

Address	/cloud/open/openapi/stock/info		
Description	Get Enterprise Inventory Data		
Method	POST		
Field Name	Type	Mandatory	Remarks
token	String	Y	Call the token interface to obtain
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows :

Field Name	Type	Mandatory	Remarks
requestId	String	Y	Each request's unique identifier, generated by the initiator, is fixed at 32 characters in length and can only contain numbers or letters.
timestamp	String	Y	Current request timestamp, accurate to milliseconds, for the convenience of diagnosing network latency.
sign	String	Y	Signatures generated using the developer account's key will be computed and compared by the cloud platform server using the same algorithm. Requests with inconsistent signatures will be rejected.
page	Integer	N	Page Number (if not filled, default is 1)
pageSize	Integer	N	Page Size (if not filled, default is 10)

Response Description:

Field Name	Type	Mandatory	Remarks
encryptScript	String	Y	Return the ciphertext of the parameter.

The decryption of the encryptScript parameter is as follows:

Field Name	Type	Mandatory	Remarks
code	String	Y	Response Code, 200 for success, others for failure.
msg	String	Y	Response Information
success	Boolean	Y	Success Indicator, Success true, Failure false
requestId	String	Y	Request parameter requestId
timestamp	String	Y	Timestamp
sign	String	Y	Sign
data	Object		
pageNo	Integer	Y	Page Number
pageSize	Integer	Y	Page Size
totalCount	Integer	Y	Total Inventory
List	Object	N	Data Set
createTime	Date	Y	Inventory creation time
deviceSn	String	Y	Machine SN
deviceStatus	Integer	Y	Machine: 1. New, 2. Returned, 3. Lease Expired, 4. Other
deviceType	Integer	Y	Machine type: 1. Prototype 2. Mockup 3. Mass Production
updateTime	Date	Y	Modify Time
deviceCode	String	N	Machine Model
batchNo	String	N	Batch number
productSpecification	String	N	Product Specifications

Request Example:

```
{
  "encryptScript":
  "FUD0206QIIk0Eh1PxbbDrHcFFURy/v3U1eeEy/CtGlDnedXXW5JPunsjkwYrjPsHz3aFn+6rOt
  9t8oL5PVCjn9Hx+gnG2x7sc5R9pYfDhMieTK9eRXa7DwwdSr9cRx+iBv6wpDYTRjYRts5MYM/MK
  I12LUxkIX+ur1Q8Uwr5FXk=",
  "token": "mp0aHiAb8XDLjiBY5beGmJAKctTb6J2MxDLkPOCp4nQ="
}
```

Response Example:

Encryption:

```
{
  "encryptScript":
  "Ltpu/ZZTbiocIcu+I9zZYzSMZqgCLzRyA08yC3a/r9TODzVdwonXke7/t9D2XgKxz+dg12UJAh
  L+LGZMXHmrk7ukH3vOFGZTr0NwDLjmIJP2cMhRoBNwkOjxYhuIMKkVawtTXoZbZ7cCKhT9RY3HZ
  j48KNcLZgKoqY9IpTHmPjAVgMCfq/SwVi7j2YN10H8+P+C1PudLvbfwYLYt1Ddr8DUbtDWR1RSv
  zMCsoWyjii/AomUKmyR+W/uxED8a6Z4X20TH97iGhyLAr7RnocXAArz7UV+qGN0Q3vjU3kxI1+H
  PyeU5hjsWGfdLk9awp9Pn1/PB2Yo7ms25zyfyFM1TlrT4XNct+ebS4TuzcFqPoiYSHfK/JUsQD0
  DmJJJDsFI1ZSqzNvZoAzUGXF8M3Y8AbwcSdjIgBPuFB+UogE41KKrtGSGbTMNGds/nm0/bZVnXC
  MRm10w+DzR3YK1ssMYWOTbMsgiX76uhkDqVcVwtrLqUb93VL5ntOW25jMQQuaDxmKMDSMPi6qJh
  5lnLbYN1p4kdyKRSz7EqPWUFbp8EdzDjLqtlIMbiZilgdCXseMnM"
}
```

Decryption:

```
{
  "code": "200",
  "msg": "请求成功",
  "success": true,
  "requestId": "683c741a67c449b5bb29a4f045f2b517",
  "timestamp": "1704188219211",
  "sign": "aa710bcfbe14ba84b672849681c75a3f",
  "data": {
    "list": [
      {
        "createTime": "2023-08-29T14:43:47+08:00",
        "deviceSn": "J40-21-CP-SZ342952-0041",
        "deviceStatus": 1,
        "deviceType": "3",
        "updateTime": "2023-08-30T10:13:36+08:00"
      }
    ],
    "pageNo": 1,
    "pageSize": 10,
    "totalCount": 1,
    "totalPage": 1
  }
}
```

```
}  
}
```

9. Corporate History Bound Data

Interface Instructions:

Address	/cloud/open/openapi/stock/info/history		
Description	Corporate History Bound Data		
Method	POST		
Field Name	Type	Mandatory	Remarks
token	String	Y	Call the token interface to obtain
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows:

Field Name	Type	Mandatory	Remarks
requestId	String	Y	Each request's unique identifier, generated by the initiator, is fixed at 32 characters in length and can only contain numbers or letters.
timestamp	String	Y	Current request timestamp, accurate to milliseconds, for the convenience of diagnosing network latency.
sign	String	Y	Signatures generated using the developer account's key will be computed and compared by the cloud platform server using the same algorithm. Requests with inconsistent signatures will be rejected.
page	Integer	Y	Page Number (if not filled, default is 1)
pageSize	Integer	Y	Page Size (if not filled, default is 10)

Response Description:

Field Name	Type	Mandatory	Remarks
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows :

Field Name	Type	Mandatory	Remarks
code	String	Y	Response Code, 200 for success, others for failure.
msg	String	Y	Response Information
success	Boolean	Y	Success Indicator, Success true, Failure false
requestId	String	Y	Request parameter requestId
timestamp	String	Y	Timestamp
sign	String	Y	Sign
data	Object		
pageNo	Integer	Y	Page Number
pageSize	Integer	Y	Page Size
totalCount	Integer	Y	Total Inventory
List	Object	N	Data Set
bindCompanyId	Long	Y	ID of the enterprise bound to the machine
deviceSn	String	Y	machine SN
bindStatus	Integer	Y	Machine binding status: 0. Purchase 1. Lease 2. Trial
deviceType	Integer	Y	Machine type: 1. Prototype 2. Mockup 3. Mass Production
bindDate	Date	Y	Machine Binding Date

Field Name	Type	Mandatory	Remarks
deviceCode	String	N	Machine Model
batchNo	String	N	Batch number
productSpecification	String	N	Product Specifications

Request Example:

```
{
  "encryptScript":
  "ruhd9wToSh5VlKScqBhigx3Tog6yx1un4Ee51X1xV1dg+ZTT3f2WCSoKwkiMaL++5RxKu0m47
  tbnG1G4AQkc2OSSiP4uteoCtZ+8g0zKuvnTnM1fABm5FjnbYTor5FE8K8tnPV+JxT2CpuujAW0/
  hetg0FvRwu+wOUMP1buR4o=",
  "token": "mp0aHiAb8XDLjiBY5beGmJAKctTb6J2MxDLkPOCp4nQ="
}
```

Response Example:

Encryption:

```
{
  "encryptScript":
  "Ltpu/ZZTbiocIcu+I9zZYzSMZqgCLzRyA08yC3a/r9TODzVdwonXke7/t9D2XgKxKFevmX04Dr
  12aq/NrvJE7EJTT6F7tPNuA8AE2uWzAb2DjuF4kS2G+GmeCv1qoe//QrWE8loDKNs5itlDtP26V
  OBiaTAuqwakuajsr0+c4xt2bCwuHc86Lg1LzjF1Lob6JZ9lh515DEQ4myaBBX8RN5IHSBB8Ui zd
  ZecQZHc6CuKE+A4bMXr1RWGvWFbPcrc/k39dWQtDH5Qa410s+5DnI7+ozmCC2JriFEWdu0bA5OK
  K32sm0g7zBLvDY5aJjsv+hW6X2Czwe9IXSPE1ueOGg1emzy/1NLk/rkVQ4S+t1lJVEj/l+noq8q
  rUQscgu i9lDoqvHwMA3UjwKACKmvWyH2HIUtVN6tr7a6YeB2zjIeiv/ET9WSALBNPYpjsErpHNY
  PQ8wuy5RfGScpfv2tSRMdcINxM0wkw14Nj7R16/kzxa7JG0q2MsnEvkxJj5aidCj3Z9mPtWaLXz
  FJraKysMS3GzY3BfVEtd0Uhp9qerZPd qzg40hPxH0deaQ7hHCwJQuRwd4gk/v1sCzXMSFBOZME1
  K95JILzg1QbIaoc8ekNw2+lsYNNXMS6NwVR1wxT9DPJefx931IFQFRrcZwoEiWFKCcJgfkBuxH7
  X3kaUtKSMFv+GJpoEiBOUNOEwgeYgftTZNfSF7ZB0gMy+1Zys+Qr00Snd0E9fhNguF41rCZUnF+
  AjWgxo7U8gxfCu14YGiVZnWwJppFpLg33hk0QlWRlmuxi1K4XVmQBPN8dt+BM3Ta60g3/EZAoaG
  CDU9hZ61KJwOV0GNo6Vfz4EI1rx+gLukH3v0FGZTr0NwDLjmIJMREGg88EaA2FHq51TxMhsKawt
  TXoZbZ7cCKhT9RY3HZsF+cAwD15iWm0jZ9VixH18VgMCfq/SwVi7j2YN1OH8+P+C1PudLvbfwYL
  Yt1Ddr8JQCgc01RSpn1S0hPmA29PTAomUKmyR+W/uxED8a6Z4XwmeQ5mWAZIGKHbQgEVouR7z7U
  V+qGN0Q3vjU3kxI1+HPyeU5hjswGfdLk9awp9PnyvndJXQ5CiKoR120vB0Ht7T4XNct+ebS4Tuz
  cFqPoiZbEan7IUfpoNITFxm4iNwBRD0LSL5L2Fqs5xK5uHrjW5B8dSsHJVo4p3nz3ss9bs/zdZ
  Kg08k/kQfpWU9EzHzQcTk/bLsnRtbSKR3V4Pz3h8uosFuyTu/001/r6TzA42Ub93VL5ntOW25jM
  QQuaDxmKMDSMPi6qJh51nLbYN1p0NvU60A2wmku8udeH46BmrjLqtliMbiZilgdCXseMnM"
}
```

Decryption:

```
{
  "code": "200",
  "msg": "请求成功",
}
```

```
"success": true,
"requestId": "127aaab06a0042008cc4997f22767151",
"timestamp": "1704248730027",
"sign": "83d0e467344d63f1c50d7e2e8e4d817c",
"data": {
  "list": [
    {
      "bindCompanyId": "7526833571430866944",
      "bindDate": "2023-09-11T14:15:00+08:00",
      "bindStatus": 0,
      "createTime": "2023-09-04T16:46:44+08:00",
      "deviceSn": "J40-10-YJ-230302-0033",
      "deviceStatus": 1,
      "deviceType": "2",
      "updateTime": "2023-09-04T16:50:36+08:00"
    },
    ...
  ],
  "pageNo": 1,
  "pageSize": 10,
  "totalCount": 3,
  "totalPage": 1
}
```


10. Machine Alert Data

Interface Instructions:

Address	/cloud/open/openapi/device/alar m/info		
Description	Get the alarm data of the machine		
Method	POST		
Field Name	Type	Mandatory	Remarks
token	String	Y	Call the token interface to obtain
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows:

Field Name	Type	Mandatory	Remarks
requestId	String	Y	Each request's unique identifier, generated by the initiator, is fixed at 32 characters in length and can only contain numbers or letters.
timestamp	String	Y	Current request timestamp, accurate to milliseconds, for the convenience of diagnosing network latency.
sign	String	Y	Signatures generated using the developer account's key will be computed and compared by the cloud platform server using the same algorithm. Requests with inconsistent signatures will be rejected.
page	Integer	N	Page Number (if not filled, default is 1)
pageSize	Integer	N	Page Size (if not filled, default is 10)
createTime	Long	N	Return data after the given timestamp.

Response Description:

Field Name	Type	Mandatory	Remarks
encryptScript	String	Y	Return the ciphertext of the parameter.

The decryption of the encryptScript parameter is as follows :

Field Name	Type	Mandatory	Remarks
code	String	Y	Response Code, 200 for success, others for failure.
msg	String	Y	Response Information
success	Boolean	Y	Success Indicator, Success true, Failure false
requestId	String	Y	Request parameter requestId
timestamp	String	Y	Timestamp
sign	String	Y	Sign
data	Object		
pageNo	Integer	Y	Page Number
pageSize	Integer	Y	Page Size
totalCount	Integer	Y	Total Inventory
List	Object	N	Data Set
createTime	Date	Y	Inventory creation time
deviceSn	String	Y	Machine SN
errorCode	String	Y	Errotcode
eventName	String	Y	Alarm Event Name
eventLevel	Integer	Y	Alert Level: 1、General Event 2、Alert 3、Fault
isActive	String	Y	Fault Activation: 0: No (Handled) 1: Yes (Unhandled)

Field Name	Type	Mandatory	Remarks
eventTypeName	String	Y	Alarm Type
updateTime	Date	Y	Alert Handling Timestamp

Request Example:

```
{
  "encryptScript":
"6BPT+S+rEwWo57aSN2TG69FuvbEEH75TireEoMPzkWZGr4wojAXXFqLD3swCzk/e0qmZG24tP
zvfDpFa aVF Aawvb6CdGY80fc4heExBRB5a1rvCnRIdrP6lGsoGAKv7ZlC0XAQqYFnjY1z9zQE52
g49sdGSe58thIcRmgycaxE=",
  "token": "uiLB/Ld/SnoL4gFW5cADBfajuSks0M2UMMzn0yuJQnQ="
}
```

Response Example:

Encryption:

```
{
  "encryptScript":
"PoZdn5gqc0TkA2A7Pghq33qA1eCXbx6fzC5eIJ3PqCUwS1Ijaj+XLTR7Ph69Xw58p72axJ7U7W
SEcnftbQ5RiNQLMMcXRA68Yy79HG3PewkfYv/wBWPBBfy3m70p+tObLDIBWi jN7f+1kEwG04oi
+H6HD/50fxYdFAfbVM8K11VWnCNc9S2RT5FkWrM4YhI1x1+7VP00yqSok+VQ6Iz8RhVrKgnv1Eu
lK8VVRmQuFM4bZcQgD9E0V7TQ+Bo6mSzlWgrJXs44h4wVSk5aOPIdyWxJtLNdDasuo0+N7Lptik
kgz5xLeSX8hQUplWwKgbJ3B9n4S1NjR+nUJMi7wKmq17Z2qR6I8sqoISD4t5UQq/VW3wSAqtJCS
t1Po3yDVJd7yEFXYjeNqGRpdPjEqCwrCUIFwBBfuK7Kw0UZ1abxv7750PIch3DzmGX9jrkIPdsG
0D4avcqH34Bbr10wU0BQwomC8sJQuSTOL51HE16TOWAbE4zaYiU3EvVhDQeV35ALId3/4C2j8YF
g3VHt69P9dimNL1zKIbWk815V3wAUPhZAytpZudaz5ARg8Ns2d3iPW4s0fwbx3dSBTWUyI1/L+
dC4zCeH1c1ik/ROUNwdG3tkqnDLOaPTnWn08koX2F1HbgMpJGxuAnCHigURpWcYdV31Xv4fUnzT
cGKsHqQMvJ4AfQysC035iNYzL6fPskHasJZAcqZ+gT+KDUlnpydsJtQyTPBbcZCykRbqQimJ+J
K8ZCIu5ZMQic0ZhtESgT8qpbdgzqajJ80SQLsEyzHh7c1rodrGpJ8zg0xdPuXZJ+w7Q5kRDUfZB
uZ8PIB1NuMJ9Hc02xM9SMMb5rx3FKIuwmBaZ76x1o+f3WBGWQroe5J1GPt7EJxTsFwiZEOQP8Ja
cKwPrOWbTFgheX/hIKimC+VsS2ea59v4IewkRhk/iGHf82DaTH+7QVkerP9YMOzykW8u6Av3CIK
95YnIMmyCBo2IstAG3h2HP/7t2U/VHbpg7ypaE5VCi9Pe3+hZSkRzvGZFkm181tSNZis/U/Kq
W3YM6mqifDkkC7BMsx4e3Na6Ha4D4/M4NMXT712Sfs000ZEQ1H2QbmfDyAZTbjCfR3NNsTPUjDG
+a8dxSiLsJgWme+sZaPn91gR1kK6WnrISc6icHdv0BzgHj+nhvCWnCsD6zlm0xYIX1/4SCopgv1
bEtnmufb+CHsJEYZP4hh3/Ng2kx/u0FZBKz/WDPgSs7rKYVzTEJ09Qhhnek0nFwaNiLLQBt4dhz
/+7d1PtNUVYA0HLyI/Zp415+ixkqcVXHs3Uio9X9VfG7pAmTdTZxRHJYU1XHRKGS8oKVCN8oPsD
kR/jmxFfvc/LUDuUbuaW+pf0Wo1KPlzVrtKQCkHRL2gWt6gjh7+hVDHQE5L9NRR41c5ElvP8mFZ
v2W+t2ywyAVooze3/tZBMBjuKIVh+hw/+Tn8WHRQBW1TPCpdV0uzMsM9U0B3oQ0ZH0WBWVXTn+x
OrAnTgRQx1P4BwCp6tW9ERETQ8eVOD3j12CWQ20fRKH0pPILvIHMPXFlzr0090N/becITDun1j
3EGonRiNze5ZTHsEHhWPPG1pusMob0SKPO+2JIXoqhNCiFB9EA9WZNkDHQikMVxQ8Riq3cH2fhL
U2NH6dQkyLvAqaqPugZZ1o1oA+VgnDaSXPEXbggWoHV8GN+c6YDnaL5ZchViqVdiN42oZG10+MS
oLCsJQgXAEF+4rsrDRRnVpvG/mjXiMNwGX4Ck6fWbn0BjOeCg4hD1ALk8J6hC9ZZhYkxxkAL41e
G/f3Mo5E37LnXj4Smiqy03xVIqpuxHa0CwkqDc0so6wLIXjivnr2SALSL0Yjc3uWUx7BB4Vj6Rt
abrDKG9EijzvtiSMaKh5wiHwFRAPVMTZAx0IpDFcUPEYqt3B9n4S1NjR+nUJMi7wKmqiIiNdGlm
```

```
nd3LWFDRU5mNRfgtwvq3AJrC8MQ9SeBrq7b7yEFXYjeNqGRpdPjEqCwrCUIFwBBfuK7Kw0UZ1ab
xv5QUCI3qITcNdZH6XSnmCTCcmgb5odxVpHdiGdnNpn7ocZAC+NXhv39zKORN+y5148Yp3E+8m0
qI97nfji34uiWJWiHP0zgEkaB+aI2SbXxDb87kxd48g5t1UcBqNX3xhsy0p5DL7C6CwVGP9gKPRu
DgjFL9PDmfoUUQSU8ycILEHEvUaVN6boYKNC9yy3s/gJasVP9HY7J0pAZznvMVwRTgq09Vq/mNO
W6MRrOZl412BtJDxoBr6axn1hx79ShB7P4VCCnpcdOfRLa3W60UzVBag0zd3SrtXdT8Y2IbmFPy
IE/cP+fN/Rx+pHoaxrq2teMjPw3shrtRu5t/6bbodCuArU6Mgons2KjjTmHY7MKY0zXiKXu1kCK
Q8RRDqBuvXWDq5S7V1KmE0PeXGU/7N1XKjrjPViLjrs8g3F+v9KDmoDgvNHQMhB1h6UyrM4hfey
SeQbHh4P9Eiku1/AVxeR74nvA5MK5s4ZFYqmDr20QwCdRiUV8t8mCrkuWjfLEvWkuUH3fpyPu/t
Eca7mtZvrEN1/A14cSxiELVBJBuhBwGLhWR7+mCEv5SFmtMgQ8urUjE+50QVQ4hcRXcKS3jEsZw
930Zs+gssdAXBtxXWkPNGANWI s64uem8AQf48V36HpA14i17pZAikPEUQ6gbr11g6uUu1ZSphND
31x1P+zZVygASE1gD2rRuFLU29b9e1J5N7wqU+P0v0hwqi0f4s6+Es5kcpaCBq95VaWbvUctLz5
A5+ldFIzv7KQu7LaFQtKG+UCi9vgPuDrv4Uy6c1I2JjtYHK0kMGd/PPg2x53oMmgxUxrcIyx1tc
Rmopx3U+Gr7cR1BZqtFLurwwlKmpAqJGf7ZCWrvCvD9YHxgL0t+IU6cKaB0sTXVsCZFL56iGQ3Y
Dj4r1RXtxdQ0uA6Ckr9+aBKEiTCTpLJFuJgo+9Jv1L929x19NBTf1jNyEv7vm6o="
}
```

Decryption:

```
{
  "code": "200",
  "msg": "请求成功",
  "success": true,
  "requestId": "d82a68e5c0c446f7a6dcc0d97b53e073",
  "timestamp": "1704271497864",
  "sign": "b9e24a6fc876882f927e3a495586300a",
  "data": {
    "list": [
      {
        "createTime": "2023-12-18T20:31:45+08:00",
        "deviceSn": "J40-10-YJ-230302-0036",
        "errorCode": "21100042",
        "eventLevel": 2,
        "eventName": "定位初始化失败",
        "eventTypeName": "算法",
        "isActive": 1
      },
      {
        "createTime": "2023-12-18T20:25:03+08:00",
        "deviceSn": "J40-10-YJ-230302-0036",
        "errorCode": "31300000",
        "eventLevel": 3,
        "eventName": "program crash",
        "eventTypeName": "其他",
        "isActive": 1
      }
    ]
  }
}
```

```
    ...  
  ],  
  "pageNo": 1,  
  "pageSize": 10,  
  "totalCount": 12,  
  "totalPage": 2  
}  
}
```

11. Batch Machine Status Data Inquiry

Interface Instructions:

Address	/cloud/open/openapi/device/query		
Description	Batch Machine Status Data Inquiry		
Method	POST		
Field Name	Type	Mandatory	Remarks
token	String	Y	Call the token interface to obtain
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows:

Field Name	Type	Mandatory	Remarks
requestId	String	Y	Each request's unique identifier, generated by the initiator, is fixed at 32 characters in length and can only contain numbers or letters.
timestamp	String	Y	Current request timestamp, accurate to milliseconds, for the convenience of diagnosing network latency.
sign	String	Y	Signatures generated using the developer account's key will be computed and compared by the cloud platform server using the same algorithm. Requests with inconsistent signatures will be rejected.
page	Integer	N	Page Number (if not filled, default is 1)
pageSize	Integer	N	Page Size (if not filled, default is 10)

Response Description:

Field Name	Type	Mandatory	Remarks
encryptScript	String	Y	Return the ciphertext of the parameter.

The decryption of the encryptScript parameter is as follows :

Field Name	Type	Mandatory	Remarks
code	String	Y	Response Code, 200 for success, others for failure.
msg	String	Y	Response Information
success	Boolean	Y	Success Indicator, Success true, Failure false
requestId	String	Y	Request parameter requestId
timestamp	String	Y	Timestamp
sign	String	Y	Sign
data	Object		
pageNo	Integer	Y	Page Number
pageSize	Integer	Y	Page Size
totalCount	Integer	Y	Total Inventory
List	Object	N	Data Set
companyId	String	Y	Enterprise ID
deviceCode	String	Y	Machine Model
deviceSn	String	Y	Machine SN
deviceStatus	int	Y	Machine Online Status (0. Offline, 1. Online)
useStatus	int	Y	Machine Usage Status (0: Purchase, 1: Rental, 2: Trial)
warrantyStatus	int	Y	Warranty Status 0: Under Warranty 1: Under Warranty (Extended)

Field Name	Type	Mandatory	Remarks
			2: Out of Warranty
warrantyTime	Date	Y	Warranty Expiration Date
softwareVersion	String	N	Software Version
hardwareVersion	String	N	Hardware Version
commStatus	String	N	Machine Communication Status
runningStatus	int	N	Operational Status
cleanWater	int	N	Clear water volume
wasteWater	int	N	Wastewater volume
remainingPower	int	N	Remaining Battery Level

Request Example:

```
{
  "encryptScript":
  "Wzk9TMysp1DXtvPgNxTSXBdoKkDpTYSHDXxGNoTC6ky081cBt4JdyCp4xxgDM2pVHUXYEM9PCs
  UG0dbiYDEehtzh/Roj88evFq5tvgwy0+IdRlIBcnrfYzOPf4pDrLHJSDpRZy3LpxVSSYJ2DnWIy
  4HVWakVDpz1fLttTOVDKYFU=",
  "token": "uiLB/Ld/SnoL4gFW5cADBfajuSks0M2UMMzn0yuJQnQ="
}
```

Response Example:

Encryption:

```
{
  "encryptScript":
  "PoZdn5gqc0TKA2A7Pghq33qA1eCXbx6fzC5eIJ3PqCUwS1Ijaj+XLTR7Ph69Xw582FEV/qgCac
  /egp0qHsbjtftITq20SbzGCyZLxR3YVFpEFakaXw1dISaayEvIU/ZCxr7z77mIlwndAE8nzhrNA
  zKgd1yMx5y49rPYwWSBmMHHasQ1K1pkf7rWyKaWWU6V0iyrSoJHXDGkrY2B0vY+VA31NZK8VMNe
  SBgJI f19pAnGNxLuIwsWcVJnt6I7+wYujCP35Jbf6ubGbkJhkIo16udTtwY8Gg23lShzJOIqehv
  80ju3jM0j7lDaJxTbsggXsu8mvj+IYPet5N7qqn7MrOHMUxNTuxEXFa3ua6c66XcULyjmZq9wUL
  Ssh9108Ix1hTukVKgZ11E1ThxMUwu/itPzjBIRNF6V3PwqtefpUM8ehN7PDwpMDaUrHuZg86/3
  Bc1Y5H4X2jYWsJ/8opn+uhKkiW0Aq37c0/YkPeztLid/t8Z9CT0stnSsmd5MjG5mo02kop5Usp0
  rab28H+NY9rXPjteFYSXXSwHFAWkm1sew1UbF4QqtVKI97VtDZR+03XBbNXg0Q1L98phLnSnKMz
  e1EMCpm0WqL8AZ0YvYK2QhJLjYctuMwgumIr4TaQqhBZiaOfk98JZbj0TNiygJ66tvCoKwEmpyv
  kP/fgH02o="
}
```

Decryption:

```
{
  "code": "200",
  "msg": "请求成功",
}
```



```
"success": true,
"requestId": "3add8e53367b41c0971b34b1d87497a7",
"timestamp": "1704276310608",
"sign": "d9ae63eb84a017e8ee9fe27007b044bc",
"data": {
  "list": [
    {
      "cleanWater": 0,
      "commStatus": "WIFI",
      "companyId": "7510386492197044224",
      "deviceCode": "J40",
      "deviceSn": "J40-10-YJ-230302-0036",
      "deviceStatus": 0,
      "remainingPower": 74,
      "runningStatus": 0,
      "useStatus": 0,
      "warrantyStatus": 0,
      "warrantyTime": "2024-10-12T19:30:45+08:00",
      "wasteWater": 0
    }
  ],
  "pageNo": 1,
  "pageSize": 10,
  "totalCount": 1,
  "totalPage": 1
}
```

12. Task Pause Interface

Interface Instructions:

Address	/cloud/open/openapi/task/pause		
Description	Interface for remotely controlling the suspension of tasks.		
Method	POST		
Field Name	Type	Mandatory	Remarks
token	String	Y	Call the token interface to obtain
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows :

Field Name	Type	Mandatory	Remarks
requestId	String	Y	Each request's unique identifier, generated by the initiator, is fixed at 32 characters in length and can only contain numbers or letters.
timestamp	String	Y	Current request timestamp, accurate to milliseconds, for the convenience of diagnosing network latency.
sign	String	Y	Signatures generated using the developer account's key will be computed and compared by the cloud platform server using the same algorithm. Requests with inconsistent signatures will be rejected.
taskId	String	Y	Task uuid
deviceSn	String	Y	Machine SN number

Response Description:

Field Name	Type	Mandatory	Remarks
encryptScript	String	Y	Return the ciphertext of the parameter.

The decryption of the encryptScript parameter is as follows :

Field Name	Type	Mandatory	Remarks
code	String	Y	Response Code, 200 for success, others for failure.
msg	String	Y	Response Information
success	Boolean	Y	Success Indicator, Success true, Failure false
requestId	String	Y	Request parameter requestId
timestamp	String	Y	Timestamp
sign	String	Y	Sign
data	Object		
succesed	String	Y	Message received after the device end receives the instruction, This message does not represent the result of execution.
msg	Boolean	Y	Describe the status of the device receiving instructions.This message does not represent the result of execution.

Request Example:

```
{
  "encryptScript":
  "8xTuSrvNSPIYSTffHyKFX+9ZkLTi3U0q20TkXAYQHazzpoldYsp3Ng6csCSFKZaoT8Q9T6pwsYNP9sV9qrPTqXJDECh2Mfk3sF56hL
6AqgoohjYlR1s6j2IDvn9oSPfvZ09pIqgnFsFMYLigwp6OCX+1cYD2K8bzRNAabI440EacYrqpTPg64CBYctV2TZ0aHppuy64nwGtFf
Mf1AFrgc9yoQsNwN+fVH/4fpEcG383RV0RpKgGaILJRD4L4QW1RR8u4bBTSfWxuJR5yOgUTZg==",
  "token": "noLZUWknqpawfvV2J4LP91S+4N83UwtN0xFabrDNZ5CU="
}
```

Response Example1:

Encryption:

```
{
  "encryptScript":
  "PoZdn5gqc0TkA2A7Pghq33qA1eCXbx6fzC5eIJ3PqCURYMvSjfgucP43d2UjRcR00ClWAgUf2UMevrk0Djj12Thhd6DEW/Dby4zPr
hUMqpuwRfMeyIvuOUhgBvzAH22Wo74AYBOXRAawCzOmtEzpj0+4gC8JEV/AzCVhYVVKt1sf/cKbCIZ6QSRdp3TA76giY/7uBbF4DRP
yd0u6vNX51R1d9VKDdnCRbLQ+RECMAT1sfwBrwrE20EUUVYV0oUyHqL/DUAZFQ0nMQQ8a1qo4nh8D4ApwxUJv+On5sWVCyoLpC4kBfMN
tRdWjFQ1UAQ59fs2T9ES+eqNZjfn8m7My1xbzg1+QDFBGFln0Ltf6HT1g4xDuhfPkw0VeGhcfL4ZBjkhXStKXa9WjdBZ3dmUFw=="
}
```

Decryption:

```
{
  "code": "200",
  "msg": "请求成功",
  "success": true,
  "requestId": "3279ee834e2a44fda17d65a4108b14dc",
  "timestamp": "1711420307908",
  "sign": "19206e34e9c15c4af2a1d5c403459e14",
  "data": {
    "msg": "succeeded",
    "succeeded": true
  },
  "taskId": "1012f5d5-dbac-4f08-be74-da0f09bd4252",
  "deviceSn": "J40-21-CP-SZ342952-0040"
}
```

Response Example2:

Encryption:

```
{
  "encryptScript":
  "QTkF2Tqu+iCy7a3byo3yHom9/wMTqrj09mqz9ssKj29EbPwmQFRwjb+FX000Zj3f76x19qmH4LE4TYm2yPPc+8GmKk5wIKKkc3ZiHc
8+ouMV9BaMikJy2hF1eRjf5lGCHVmFm7yz10TgmPagr9eTIIQOVCEDBxs2m4ss88catZI="
}
```

Decryption:

```
{
  "code": "30001",
  "msg": "设备无响应",
  "success": false,
  "timestamp": "1711420447492",
  "sign": "61387c4d5efbb0e64efa77aca9564f84"
}
```

13. Task Recovery Interface

Interface Instructions:

Address	/cloud/open/openapi/task/resume		
Description	Interface for resuming tasks.		
Method	POST		
Field Name	Type	Mandatory	Remarks
token	String	Y	Call the token interface to obtain
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows:

Field Name	Type	Mandatory	Remarks
requestId	String	Y	Each request's unique identifier, generated by the initiator, is fixed at 32 characters in length and can only contain numbers or letters.
timestamp	String	Y	Current request timestamp, accurate to milliseconds, for the convenience of diagnosing network latency.
sign	String	Y	Signatures generated using the developer account's key will be computed and compared by the cloud platform server using the same algorithm. Requests with inconsistent signatures will be rejected.
taskId	String	Y	Task uuid
deviceSn	String	Y	Machine SN number

Response Description:

Field Name	Type	Mandatory	Remarks
encryptScript	String	Y	Return the ciphertext of the parameter.

The decryption of the encryptScript parameter is as follows :

Field Name	Type	Mandatory	Remarks
code	String	Y	Response Code, 200 for success, others for failure.
msg	String	Y	Response Information
success	Boolean	Y	Success Indicator, Success true, Failure false
requestId	String	Y	Request parameter requestId
timestamp	String	Y	Timestamp
sign	String	Y	Sign
data	Object		
succesed	String	Y	Message received after the device end receives the instruction, This message does not represent the result of execution.
msg	Boolean	Y	Describe the status of the device receiving instructions.This message does not represent the result of execution.

Request Example:

```
{
  "encryptScript":
  "8xTuSrvNSPIYSTffHyKFX+9ZkLTi3U0q20TkXAYQHazzpoldYsp3Ng6csCSFKZaoT8Q9T6pwsYNP9sV9qrPTqXJDECh2Mfk3sF56hL
6AqgoohjYlR1s6j2IDvn9oSPfvZ09pIqnfFsFMYLigwp6OCX+1cYD2K8bzRNAabI440EacYrqpTPg64CBYctV2TZ0aHppuy64nwGtFf
Mf1AFrc9yoQsNwN+fVH/4fpEcG383RV0RpKgGaILJRD4L4QW1RR8u4bBTSfWxuJR5yOgUTZg==",
  "token": "noLZUWknqpawfvV2J4LP9IS+4N8JUwtN0xFabrDNZ5CU="
}
```

Response Example1:

Encryption:

```
{
  "encryptScript":
  "PoZdn5gqc0TkA2A7Pghq33qA1eCXbx6fzC5eIJ3PqCURYMvSjfgucP43d2UjRcR00ClWAgUf2UMevrk0Djji12Thhd6DEW/Dby4zPr
hUMqpuwRfMeyIvuOUhgBvzAH22Wo74AYBOXRAawCzOmtEzpj0+4gC8JEV/AzCVhYVVKt1sf/cKbCIZ6QSRdp3TA76giY/7uBbF4DRP
yd0u6vNX51R1d9VKDdnCRbLQ+RECMAT1sfwBrwrE20EUUVYV0oUyHqL/DUAZFQ0nMQQ8a1qo4nh8D4ApwxUJv+On5sWVCyoLpC4kBfMN
tRdWjFQlUAQ59fs2T9ES+eqNZjfn8m7My1xbzg1+QDFBGLnOLtF6HT1g4xDuhfPkw0VeGhcfL4ZBjkhXStKXa9WjdBZ3dmUFw=="
}
```

Decryption:

```
{
  "code": "200",
  "msg": "请求成功",
  "success": true,
  "requestId": "3279ee834e2a44fda17d65a4108b14dc",
  "timestamp": "1711420307908",
  "sign": "19206e34e9c15c4af2a1d5c403459e14",
  "data": {
    "msg": "succeeded",
    "succeeded": true
  },
  "taskId": "1012f5d5-dbac-4f08-be74-da0f09bd4252",
  "deviceSn": "J40-21-CP-SZ342952-0040"
}
```

Response Example2:

Encryption:

```
{
  "encryptScript":
  "QtkF2Tqu+iCy7a3byo3yHom9/wMTqrj09mqz9ssKj29EbPwmQFRwjb+FX000Zj3f76x19qmH4LE4TYm2yPPc+8GmKk5wIKKkc3ZiHc
8+ouMV9BaMikJy2hf1eRjf5lGCHVmFm7yz10TgmPagr9eTIIQOVCEDBxs2m4ss88catZI="
}
```

Decryption:

```
{
  "code": "30001",
  "msg": "设备无响应",
  "success": false,
  "timestamp": "1711420447492",
  "sign": "61387c4d5efbb0e64efa77aca9564f84"
}
```

14. Task Stop Interface

Interface Instructions:

Address	/cloud/open/openapi/task/stop		
Description	Interface for stopping a task		
Method	POST		
Field Name	Type	Mandatory	Remarks
token	String	Y	Call the token interface to obtain
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows :

Field Name	Type	Mandatory	Remarks
requestId	String	Y	Each request's unique identifier, generated by the initiator, is fixed at 32 characters in length and can only contain numbers or letters.
timestamp	String	Y	Current request timestamp, accurate to milliseconds, for the convenience of diagnosing network latency.
sign	String	Y	Signatures generated using the developer account's key will be computed and compared by the cloud platform server using the same algorithm. Requests with inconsistent signatures will be rejected.
taskId	String	Y	Task uuid
deviceSn	String	Y	Machine SN number

Response Description:

Field Name	Type	Mandatory	Remarks
encryptScript	String	Y	Return the ciphertext of the parameter.

The decryption of the encryptScript parameter is as follows :

Field Name	Type	Mandatory	Remarks
code	String	Y	Response Code, 200 for success, others for failure.
msg	String	Y	Response Information
success	Boolean	Y	Success Indicator, Success true, Failure false
requestId	String	Y	Request parameter requestId
timestamp	String	Y	Timestamp
sign	String	Y	Sign
data	Object		
succesed	String	Y	Message received after the device end receives the instruction, This message does not represent the result of execution.
msg	Boolean	Y	Describe the status of the device receiving instructions.This message does not represent the result of execution.

Request Example:

```
{
  "encryptScript":
  "8xTuSrvNSPIYSTffHyKFX+9ZkLTi3U0q20TkXAYQHazzpoldYsp3Ng6csCSFKZaoT8Q9T6pwsYNP9sV9qrPTqXJDECh2Mfk3sF56hL
6AqgoohjYlR1s6j2IDvn9oSPfvZ09pIqnfFsFMYLigwp6OCX+1cYD2K8bZRNAabI440EacYrqpTPg64CBYctV2TZ0aHppuy64nwGtFf
Mf1AFrc9yoQsNwN+fVH/4fpEcG383RV0RpKgGaILJRD4L4QW1RR8u4bBTSfWxuJR5yOgUTZg==",
  "token": "noLZUWknqpawfvV2J4LP9IS+4N83JUwtN0xFbrDNZ5CU="
}
```

Response Example1:

Encryption:

```
{
  "encryptScript":
  "PoZdn5gqc0TkA2A7Pghq33qA1eCXbx6fzC5eIJ3PqCURYmVSjfgucP43d2UjRcR00ClWAgUf2UMevrk0Djji12Thhd6DEW/Dby4zPr
hUMqpuwRfMeyIvuOUhgBvzAH22Wo74AYBOXRAawCzOmtEzpj0+4gC8JEV/AzCVhYVVKt1sf/cKbCIZ6QSRdp3TA76giY/7uBbF4DRP
yd0u6vNX51R1d9VKDdnCRbLQ+RECMAT1sfwBrwrE20EUUVYV0oUyHqL/DUAZFQ0nMQQ8a1qo4nh8D4ApwxUJv+On5sWVCyoLpC4kBfMN
tRdWjFQlUAQ59fs2T9ES+eqNZjfn8m7My1xbzg1+QDFBGLnOLtF6HT1g4xDuhfPkw0VeGhcfL4ZBjkhXStKXa9WjdBZ3dmUFw=="
}
```

Decryption:

```
{
  "code": "200",
  "msg": "请求成功",
  "success": true,
  "requestId": "3279ee834e2a44fda17d65a4108b14dc",
  "timestamp": "1711420307908",
  "sign": "19206e34e9c15c4af2a1d5c403459e14",
  "data": {
    "msg": "succeeded",
    "succeeded": true
  },
  "taskId": "1012f5d5-dbac-4f08-be74-da0f09bd4252",
  "deviceSn": "J40-21-CP-SZ342952-0040"
}
```

Response Example2:

Encryption:

```
{
  "encryptScript":
  "QtkF2Tqu+iCy7a3byo3yHom9/wMTqrj09mqz9ssKj29EbPwmQFRwjb+FX000Zj3f76x19qmH4LE4TYm2yPPc+8GmKk5wIKKkc3ZiHc
8+ouMV9BaMikJy2hf1eRjf5lGCHVmFm7yz10TgmPagr9eTIIQOVCEDBxs2m4ss88catZI="
}
```

Decryption:

```
{
  "code": "30001",
  "msg": "设备无响应",
  "success": false,
  "timestamp": "1711420447492",
  "sign": "61387c4d5efbb0e64efa77aca9564f84"
}
```

15. Robot Current Status Interface

Interface Instructions:

Address	/cloud/open/openapi/device/currentStatus		
Description	Return the current status of the machine		
Method	POST		
Field Name	Type	Mandatory	Remarks
token	String	Y	Call the token interface to obtain
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows:

Field Name	Type	Mandatory	Remarks
requestId	String	Y	Each request's unique identifier, generated by the initiator, is fixed at 32 characters in length and can only contain numbers or letters.
timestamp	String	Y	Current request timestamp, accurate to milliseconds, for the convenience of diagnosing network latency.
sign	String	Y	Signatures generated using the developer account's key will be computed and compared by the cloud platform server using the same algorithm. Requests with inconsistent signatures will be rejected.
deviceSn	String	Y	Machine SN number

Response Description:

Field Name	Type	Mandatory	Remarks
encryptScript	String	Y	Return the ciphertext of the parameter.

The decryption of the encryptScript parameter is as follows :

Field Name	Type	Mandatory	Remarks
code	String	Y	Response Code, 200 for success, others for failure.
msg	String	Y	Response Information
success	Boolean	Y	Success Indicator, Success true, Failure false
requestId	String	Y	Request parameter requestId
timestamp	String	Y	Timestamp
sign	String	Y	Sign
data	Object		
cleanWater	int	N	Device remaining clear water quantity
currentMapUUID	String	N	Current machine's map UUID
currentStatus	int	N	Robot Current Status 0: Initialization 1: Standby 2: Automatic Operation 3: Manual Operation 4: Resupply 5: Fault 6: Sleep 7: OTA Upgrade
deviceSn	String	Y	Machine SN number
networkMode	Double	N	Network Mode (WIFI, 4G)
positionX	Double	N	Device's x-axis coordinate on the map

Field Name	Type	Mandatory	Remarks
positionY	Double	N	Device's y-axis coordinate on the map
wasteWater	int	N	Machine Sewage Volume
remainingPower	int	N	Machine remaining battery
taskUUID	String	N	Machine's current task UUID
taskRunningStatus	int	N	Task Status (1. Paused 2. Idle 3. Running)

Request Example:

```
{
  "encryptScript":
  "nTf0AkY0H1bB6Pbsr0G1/BVM1B7wdBr2hqGniPxAUhsYRv4k/GMQ0BRQf3E5J2dC2/xg1rjHUrURCaxLWoe0tGc7r0r7Hc0mk/
j0xNQkJdLPMETzj3MI1V7wKGyvZ09pIqgnFsFMYLigwp60CX+1cYD2K8bzRNAabI440EZnXHCgD1Brzyqemnf0bP4XAdghphwz69wIC
ZlvS2mmrA=",
  "token": "noLZUWknqpawfvV2J4LP9IS+4N8JUwtN0xFbrDNZ5CU="
}
```

Response Example:

Encryption:

```
{
  "encryptScript":
  "PoZdn5gqc0TkA2A7Pghq33qA1eCXbx6fzC5eIJ3PqCVro+0QVbAVsjRNX0hYigLzaXLPASDq8/etWB02kH+xAgTQSwqzrbiT0Xm5v
pzhwvBJKWtmRTah6Vwgm6epARRtT4m3jwPqzF2yZ1k0gk0qjyD+cRHiFBSQk8kRIZi/QWxnNOGqTzcQHCQYbCyHjiGmjN6l1rHFI860
5V51p4uAPs9SRUIz0BB+/H2/3o10Bz4JjtKYp/KIjnoy3Ed5FTbWCQGrHF9hSayNZL1BJr503k/+Kq+POWZi4w5AFEzeEp7FFKLU+6
Hs23+1qf5GjaSaFQ1jc01Pz3V16HmABUKm4HJypRYrfKg22GkstjSYPTQXxqANPlursa+BjKJleqVJmjwFZjFKKaxN/ybpRWiUMJ2tg
I6tSi3Vc04v98D17+JWvBGzPUGT1c6l8Ei1zso/T0kF+Ln0cs6dJUlkxGk/YmcG1Nsy5upFB09UcSQ5u8vXKIM75PoC1VFQYs3yftxq
goPJhEAKv3Yv9tabWEnBr11erHwvX0pPEYh965+eu+KXpElyYpNsD9NIYwLAKkqhjpfs03P59lDyB2GE0p1Pdkh5gzlksPNYJr0GMVX
GOWIR3tXkA1KCambbIrwVPghAsW9amKvtca/W+5HjCDnBRPiPR2zTiMvdTCTJndbkC3w1MRbd3aDv//yQygVoF7b7pL1qkL6tHTub4E
hw4hJ1Ho2Is0UtgyXIPQzFJqGXA="
}
```

Decryption:

```
{
  "code": "200",
  "msg": "请求成功",
  "success": true,
  "requestId": "d1af5c1a4e754c7c94777d66261ee951",
  "timestamp": "1711422563140",
  "sign": "2b2fc17d89d2cc04c67d742374b3e3a1",
  "data": {
    "cleanWater": 50,
    "currentMapUUID": "b62a8117-c092-4d12-a83c-0b1a667e69cd",
    "currentStatus": 1,
    "deviceSn": "J40-21-CP-SZ342952-0040",
    "networkMode": "WIFI",
    "positionAngle": 360.0,
    "positionX": 266.32440185546875,
    "positionY": 209.23837280273438,
    "remainingPower": 70,
    "taskRunningStatus": 2,
    "taskUuid": "ce4f5549-8f1d-45d3-8300-0333b29d0e3b",
    "wasteWater": 50
  },
  "deviceSn": "J40-21-CP-SZ342952-0040"
}
```

16. Get Map List Interface

Interface Instructions:

Address	/cloud/open/openapi/map/query		
Description	Get map list data		
Method	POST		
Field Name	Type	Mandatory	Remarks
token	String	Y	Call the token interface to obtain
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows:

Field Name	Type	Mandatory	Remarks
requestId	String	Y	Each request's unique identifier, generated by the initiator, is fixed at 32 characters in length and can only contain numbers or letters.
timestamp	String	Y	Current request timestamp, accurate to milliseconds, for the convenience of diagnosing network latency.
sign	String	Y	Signatures generated using the developer account's key will be computed and compared by the cloud platform server using the same algorithm. Requests with inconsistent signatures will be rejected.
deviceSn	String	Y	Machine SN number

Response Description:

Field Name	Type	Mandatory	Remarks
encryptScript	String	Y	Return the ciphertext of the parameter.

The decryption of the encryptScript parameter is as follows:

Field Name	Type	Mandatory	Remarks
code	String	Y	Response Code, 200 for success, others for failure.
msg	String	Y	Response Information
success	Boolean	Y	Success Indicator, Success true, Failure false
requestId	String	Y	Request parameter requestId
timestamp	String	Y	Timestamp
sign	String	Y	Sign
data	Object		
createTime	Date	Y	Creation Date
deviceSn	String	Y	Machine SN number
extendParams	String	N	Extension parameters
mapFileId	Long	Y	Map Compression Package File ID
mapFilePath	String	Y	Map Compression Package File Path
mapHigh	int	Y	Map height (px), 0 indicates that the device end did not pass in
mapWidth	int	Y	Map width (px), 0 indicates that the device side did not pass in
mapStatus	int	Y	Map Status: 0.Enabled, 1.Disabled, 2.Deleted, 3. Synchronizing After Modification, 4.Failed to Synchronize After Modification)
mapUuid	String	Y	Map's UUID
mapId	Long	Y	Map's ID[Cloud Database]
mapImagePath	String	Y	Map Image File Path

Field Name	Type	Mandatory	Remarks
mapImageUrl	String	Y	Map Image File Url
mapName	String	Y	Map's name
sourceId	String	Y	Device-generated map ID (32 characters)
updateTime	Date	Y	The time of map update

Request Example:

```
{
  "encryptScript":
    "081wPeun6tJ8Zm0j/jRA3Ggd0Nq8ByMPKFqctyZRTvC0yAkyP5spo9wQaG6l+znnJlzl0G30k2t0Numztge0pnDUqCrnpiaQkZLnL
    /euL9By/A9avqQdFowEzTIIIEQ26uKoIz2RW9syxu9bwfI1zhnIpD/NTnA8zt6eg255XVI2gYQ84q6KBRku1G2LovYJsgNKQ0n7ob0KA
    46XykkwMA==",
  "token": "noLZUWknqpwaFvV2J4LP91S+4N8JUwtN0xFbrDNZ5CU="
}
```

Response Example:

Encryption:

```
{ "encryptScript":
  "PoZdn5gqcOTkA2A7Pghq33qA1eCXbx6fzC5eIJ3PqCUwS1Ijaj+XLTR7Ph69Xw58p72axJ7U7W
  SEcnftbQ5RiJfgsG3FMcYs2wbB8fZ/7c7b13hdsZiMD1eIdIZ9UoxWFSgTVr+cMCNPwAshk6AgT
  EuDf8HXJ0ae8Sov34EHKGErH/9i0NpKPX0AouMLw+RhGINsmEiku9DZVNRW+08cQ2w72sFQrdzA
  ipCCtLZEKoufLg1igdb19mr8k9oKBZaAR6rg1TVJX1RPLwq6dcr0xgoWAgjw/1n3n9AgECsPu9P
  YcIeTIMqhrd1EMOMQWLvnwrsiRgbbkx+eYvtUuDuZZs/wa/fg90bSnHg0a51Wk1KM2R3eZA09VC
  hCzkZy5H8vLY+KwW06v9+u76QaY0Bfmj3QSGZletAWLhR2nRQklWV40ZuhFwKx8Sf/pZUTQ4/4F
  st8Uxo6XBMRd9hIawZjrxvhWpgDfNpoXNSTahHrmRZSlnM+NaK25ZZlkWkiormBaKXb4zEFU4PI
  hph+NPxZx20ob953rH8basBsxTvMCKL vYLpANzSBCWjOyCXbspEb0RCHDQD90yDe00T6DhdQ/1j
  7DEX2e1nnYgz0mJZM5nXyX9n3fW1uniOuUX196mskjrYvJGwrhwa0gcEzwMOBuZKujbW6Zjxq
  4MLhg8hCFdFDDbbqzdkm8jyDng62Uhbz/bNz5h2x3HrF/B1EJAAtKicvUuIVic7kW81EbGs huoGi
  NIhe1lIXNwv/86Cz6wRwLZs+2xXFh75dg5qvB/yYVRd9wHDLJclG307HyxFQcme0VBKdiKUF RF
  kyofP8x2yPjN0Qk8onGweAS3i//QXEmDXQziihTvTqJQ9xyBDevbKLaqB1TZnfIocQaZf0+Y1zf
  WKAQivjpy0aSmUcx/fUOZgtb0MtpCHautFH6BbpSCYIvnCFIuB+gqVR1JzmFD/uFgrFq85KCMuY
  3C0JZcTnfxme6jv0ilkbRxBhNYeGV9LCwUe5p8x+V48B41tywTPpRH4ft/Y6Z7AmP9WgRejL3KZ
  D1ehtYYDQig1zWk7zI6JQMy0u5iPKjSRu2ePb+17FzzC0ye8Mew4Q72wbc dxa3n6zF70wXdcPs+
  VPF74cs cKnHXVgBQka9HP20+EbTfxAa2NYs2EbXqDLnI48W6NY166UfVNi fUTVImZY0jQt0cQwa
  SZRa1HF65zjbMGRDBbFgKL RqoaFA2k6wHmYm5ZArKVwwfGEHUX9D0qkX+T4/R2LUkfQDF1n8pxp
  hkQNcYGFtVmvYNDnCTnH36NUUnNaecrhjUL92YL3cxXuQ1i3ppqivLg920HtAV91Jz73CFD2MiA
  Mwmowuk9hiK5VYPcG7un9AhnRC6TnNm2VNL TN7ki7H0A4yPv0sWJqJB+E2KKqfGjdFKaLIuEaBr
  dbBe7iboxhzZvg+mI4sHpcKrE Iui81kqhnnndWxn/Q42PbxFYFyLn/ZpZwja2bh9pb7ZmaalVsDB
  f+pnRiNuHZMLF1IBOURH8XW19hhMdvOE66o8nU+qJKaWlhBfm27C7Mm/ewDoG/r4EdqYttHq3Id
  d27wdeAHp5X21frBZcX6etHpBmiOREKcqhIcWjK08ppUJs6j0IkLEIA/fLSwjSRGTMRgvpQQe5v
  jqXuypQfjQ3IN6EggUwmXhrf0eDJWX3pPrMANq16MRRB9jsQWyyvn1nMKT0QdS3zbdgi fmPnt3Ry
  pbrTBjHmQGRGEJui/khFmSJ0heCAT3VPajl nwxjha9xrU20XaB6Co0s31FGiY0dX40GDjp10g8
  xvhx0eihjWw4JfL2KhekolVlucrJKsibod/5FhFuZWZ9AYexholxmcX0gitGSfHgUvOgzoHuW8i
```

Oo+2Cb9u0V7Sa/AV3HvSB0uTmQ8A2nfayh4uAKR+Y0Eak6osdvF1PZ0qHoIYJ+Oa+Y847hb3NM8
2Cngfj4YrxE6y1ZY8fxDiFi8QJaul6WNHM6XpH9193Ae51WUjixWzRQFoJqnWQJSw7raIWhu1W
70IufHR5AjbePKRQmu1ESAdzvFe/+x8Jqx39NgVqSsaE0d41s24qQQgwp4LzRuRESjtUTArgSPy
Y7HbX3dYa4Tx5P7+KcshLemHSQ09CRYC5qkJXbGtn1L4VPiKZ/rwKbL NENIRtG0iGQCPE9dxZyP
Pk4mOphVTdzMTaUZSySmQiN/Jb9a/w7BBFcUPrPJ5sKX9s3qX0vSJ2ZU1rzZFskHP8+pBG07Xoi
mtpXoiMJDEPe8MAsIOPRFeS7XBMx1V75eAAp6Sqzyoxj7w5x1wjA9wtziZLiWjfxAOEqLY4atRH
3q7M7We6bbYS53x2j1E1TTiFFnVLBfdqXmOpTQzdH91Sjiz4Z+D+JTZ1Q5wDWq0CLyB89oBwKUD
2JWJyZ/n3Nzv6Tf1pGxno0L8gOp4o4UW5FM45HeseXeZy6ZHQ0En4ZS4/2CFRAfmnnS9JEfYogG
va1mi8HOBANX5wtOn9G02HPdG2jqnSiox5n8+05xSo/r21tjv50qyASYb4gQnfvpPJ+rMC EaQ3Y
eScPW9An9dbQPpxi0ihIco/Y7XTfIUH Ir2CSZIBaF1U0KVGCfYU5rgtqT8+v5asp1hR+Xl3l0tP
SodEXNy714Ycgx1DEeneA4qw2JO/ehNgL3SdgvLeQ22hccBxMdAmgGY90G3tNeznJIFgQ6gSVvF
YnhYPdLPwVqyiv03h506KP++lSzF8lII6JQM y0u5iPKjSRu2ePb+1YuCGWQf2q10PeJ26aNcMaV
wNLAcp/wOGZibcNAIBLzRbZb+UdUouP1E5gXyDMI BheOVFm/1EMBw+JYhuR27Xj8Jv6+D6TwcFk
MDXpwa8b5fomaZeadaHyvGHw6Bt7hEa1o95dUEFyHpfHjPftoNw36FRnboge/SW2Xvi3oJzCZ9Q
DLhvfTA5/aGgQZ1REnHqgZ9EayoyiJOq1g3dORADGP8KCl/8CSVN3zWK9PtsrgOSrc1+xBNkEWn
/0U2G69/Y5Qbb23CMoBW206MnR6r2Fm0h0+IqixSc1+WT4NYhsHUCla5nSHu0y0MskzHiYAI dhn
vsy+d1NdxlWCC6cx+Y4EnKQ3kuZQR8uud7WIm4cc1RHuIn1a9VJRAS3rXJ8xhISs8Pw6gOPmBEt
0vFaLUXvFFhjZRaxDXq779swhtY5rKWSw5NNkwSH8HGItAbDU5wBYkpw7p42t3w/1RhxF9BKaUT
swKisdl7esZ9VPM/dERUBw7R7ugvaX1i3c3p8ak8W4zZa+0iOXjs2ir0/pg/x00x6JGRknScpKD
wtSxQe5aTPFnVR2UpTQW1XwMjHpfvE/CxmdITjsg5yFRwJh5tTgfUSA5d4LM8R9+Ln2Tk+JuDE1
8RFHCz3tXAPC35nhVPRX0q3KwwLSH4dr93cVNAD5Ft/8IDN8YXY4G7LZ1FEhqFoNtXexn4LYlQK
pWcYsvxzjaOGHGRNVvxQ5DFYzi6US4mfV3CdDzmIQBMNIDtIJidVzE8asz5qsQkX/4esqy5e3hR
WRAA9wcpq4Guyso5Js0HjKj1bNS408ASpqSZJiyM0W0buE4d1qq5w5Zs4ID2DL3NM5eJnm29lK
zRjzNJ1hQeTukbOSIBOrH93qNhqadFqwRYUWPIdgbD5CZAiR+EnH+2eX5Yy+PPQH80FJq86FnNE
MAbojBAIxrquhfnF/BZ0J94lCSf4D1gMeM5eJpK7YnmQMey+pDia7QA1bDVK3Hgp/X32pUEh8I
KqSun066tUTBxVgihQDoX/J6qftp33jY1ImZ2GcR6okZe/1Xy8NkrHY9qCo5j5nfYTxn/44P/0l
j8T/vIr1cevm9T1dn492uqXETbIV6TjB+YhrtzKdV2IGnZKQsSm8qthVsuxKaUqzm6KG8H7Bo5D
+nSpXb0N8SMY77++5w8K3AqF8mfWizKpVfQ+OXANeO8DU1c/GdRIoWXGiPUXFV13D0ZL4bun9R1
LA84kKS9otNAMTe6sTxv4Cx7x880LsUlnUKT3v0sFLQf0ICtLZgvyhBew8mhLFmSoVsE4q9E7y
okivOE3hR+9AWuWP6DH+WGNy9pLfmJazox9GHQ6ubMfFjn3y4APUk4j/MK140Msyt3DtorApXD9
h5xiArsY08Nxf0hncxcUgPt4x5b1hEv4lPIxebzvEV+6BAPkipJ71YgGa+7U1QeJw6NGS5GgH3
WmuArMOh0zRs3CcwgpZMqD5eflHHnDgbvV7jWoe/Xo/dyBrqm5Y1hAXRqA/1IsoGXTVfvuNYTq
M/143YTMuKk3WkCY8xYxL8j/zJ1dzs5ypL6EHnF5suMJ2hCbrjUNSOTf6wdYefpsXw04uWDbUoj
ldjl3+89Lx+RCRC85N5n5Y8oDepM3Mgp5CRGiGqLlpglc6LdYs/UTHrF2ensTvxNt70DtfCJD3i
ew3gi4Y4E9RUT8CKi2pjE5rROZ570Q41KXAGwRmvfEw25tbuJiyTyJhzIcmvFGjE4o0zj8vHhB2
obpy7L9M00Lpwm8eUfM61swoXw/e3W05VMLvfYQHLvkiwDLU25RcrdLnWRH/7d4uBLmTG8KMVx
sKU6/+9v0+SMB4o009dJ/7MqeTn/3NmDvDSXtyL6pq76k0+Gm8AAyDIzjqhvbDZMSsBoXrh1GH0
hhfBn59IxeWP93dQk2V6zDH48fMEbXXvfCx9ZaPqW3ljTcBN3z4fWncBnS8moMCMwL4xwLAOWKr
aDX0p3gg0vH/0Xk8Qx0ew2cqZ99SfP2I0YjFftZzo3N6ptKGUq3ew74xwLAOWKraDX0p3gg0v
HP6fq84T1I8/gg9lHdk4r50b8vghElAmiBwkPLLFYMu1vLceasSKVMBwk9kbMrqFCNL1/kZed6H
b2NdHOGvF1LR1asZ6YEiDFWUatXeS39eDnAE91T2o5Z58MY4QPca1NN8wyQx+ZMbeZ9fCV00hkg
me798tL4YG8Kc4vTCu+1YkLGBoiyoSxYp28co5xZJNVtxSRuQFuG006225Y7HMDijEkNbqMrBHu
2mFHKvp8mU8Ctv6ze09e8cqc46z1Vb0kDiNeCn2aBvkkVLv0LgrEGJOIqceImf+Q1V3Fi++2tVM
Jf1pbaj6LHpGpBjC5vFGbhH+iQ1jU5BgIS6I+ZxtCcxJ9Nh05Dcz3WUf2tq0Sjtyi1iKQCldroY

U6XFdzZhIAKH2NMlFc0MBZ1napJNiH00ZzW9sodaZ8B6bV13bWw5dcqPZE8j3/m0ss9dS3v0rzI
nkzrKzTmCUuz06oFY0P9dAJPwqnsTsprIPrsbWKUBzRJ9xTcvS2uvb2+dhKCj3Jc+rk5uDL+d7
aSwRQd+eR4vXiPH4+UwCYxJ7thTymarrfyabJmcS8QtC7UW20362rnU9908r2UQCjT4+Akn+tRr
0F86WsI1Y5i1LWNMJi7FkZp7xroJ0hfCm+s6k1w+2H9xFigcZiSiNmJE+r1AyRR0A27W5bGRvK/
6tzzSk8NgCyqeQ3l0KYHT7kvrD4IDCXVFq3YsDBdcJXAYZ3i8EDI8s9Jq1ELc06QG9LrGBwpN0r
/z1tKQmc1I4HzDRAHKS9k+aikPsqKIH+1IQ8ArobiIZTxHeALz5S0w1LaVB98oC0CL43Dmi4LlK
SEBPfR0thJD4bML3gMdCGZq4p6iW8NGE/mXk+f8mg6V2e1GQAVE0nzQyDN/yZX+6WMM+QesKKs
acYqLcpm5yhkc7Ds5HEFiQs1fnEWNn1CS8CMRe4FZhw1UUImsIX87MgN/KK1efHwJXSrFBC4TI
CzuoX7B/JoSxZkqFbB0KvR08qJIrzhN4UfVQFr1j+gx/1hjcvARE5HsTqYtTx1rs7ysq/yvtobd
MUc/tzXtSXcdNXq3Fyk2j8Q/YecYgK7GNPDcRXzoZ3MXFID7eMeW9YRL+JTyMK1UU8JjH8D8Rjr
XymYv90J7pxZuE/YH3Sg5qMky9lpfMjTbhmjrSrv/tH8DDxGerVj7SnXTHiPgnTEnj0H3DMA6pu
WNYQF0agP9SLKB101X77jWE6jP9eN2EzLipN1pF3+Z/ifbsXW6vIhlz0WU6JopK58w04bPd5I4p
qoD9210geQVFzWrvNEgWPyhiPTE3j1RZv9RDACPiWiBkdu14/Cb+vg+k8HBZDA16cAPG+X6JmmX
mnW8rxh1ugbe4RGtaPeXVBBch6Xx4zxbADcN+hU226IHv01t174t6CwmfShTmUGkfVklirPK
YSo5d61iqp+VcIQg9xs18RmLF+y+hWqPffr3UE2h05tSrwrJFyLn/ZpZwja2bh9pb7ZmaaLVsDB
f+pnRiNuHZMLF1IBOURH8XW19hhMdv0E66o8nq06AwRpdIK05nicwqvLu7eaHZ0YwfFyJwZ8LlQ
u6JDto7HaZC2ZRT8S3tSXRfWBgC/F38h81gMZ+I5rVRwksbLTGe89uaThfF6wq6t9CoJLPcKu0
Zhbdw4jFHYtSXEem1pTHDukul2ldXiWUPfG8GKWXE2rOS+wvmPimFZZ/Ib0E39RNuiG0pf4BDNB
NyqSaC+AGDHADtGx8n9StVJvTecat3VPaj1nnwxjha9xrU2Vy1xN5cTczNLvxypt0y+2Djpl0g8
xvhx0eihjWw4JfBXEYfRU6D+e7MwTuwy3CpdFhFuZWZ9AYexho1xmcX0gf3F1dk/y0Z1s9AzymY
+X9wsto3lKhmsQ9vKebIbM7eaQ8A2nfayh4uAKR+Y0Eak6osdvF1PZ0qHoIYJ+0a+Y847hb3NM8
2Cngfj4YrxE6y1GJ0eN0aNvi5vXRwAS6gxO/RBxmeoL8f9mEYlaFk0oIW3E7KTCQdre2BjLxRqf
KigTCMI2Da3yHsIR2E8v1JQHzxZnbX8UHu8C0lNx5hrqGYLYaHqZS4/fGtd9NTQL5xxGQSsEArz
yHPp6r4q70Z6v8oPSXWeQkApL3YuT8bHzn3KaIirpbt5rIJQF19YtvpdSxpy202GCNV2mPfPhbb
6gIo3mT/x+Pfer/AlPyt4r8Lh500eHaKKnFkiFspsfmWv2ctrOnWWz6sEx9yzYFdh7kt1t9hE3c
FodLBiYpm7bD0uCHPg409cgA5MJCFOnEG13fNQdo2qGt3zA3aJrc4oagUYIEBf5e1+n0Rj4WtBF
8d1AuoLb1lYFzrwYObTKJT152FkzEtHjrDlt/068UmiVH3N7tFpaklvguv5owxb1bZb6QuFdP08
rA8V3qGHXrhC3ZTtUg9rkrNBXBA5q3bXx/mRLkS7pfdX9peIdAXUZVuNwiqLE3Is+DWITnLzuN3
pnKQE/sVUiIEEbK124TtXCHrxAO+eNiKpkKZ/CbkCJFU0cLz84rS5G1c8JP8mAvD8stx1uiY027
w/mVKICA+i2atV792m0gxRauzTst+wPOc/rTu82fLctmprU/mU32R0ej70cXYnigv95k15DzJtW
WfXMIuWi07PuC87Vkw/ieejxNudn0WlftZyQY3H5cWVS1inFstm6MPY/3+vJBuiZs8JRvdaADvI
ycjKLUKF7NEV81aSg3Av/0qS/1SbV4/gPzAv+e3hkhCaJ8LHEWD8Ywz+2C6uynyEdNkzKXybvq
FFL1cW0SHYIGBoXoQp17Bd2hf5kA5d0PB0Qmsy3rH97EV/2+MCPCtZZtuVCG0L7tB11cH1Am+9j
wMCSFL7WkFDbiv5RDOW/dNZqeVKJoecucTeWOU/ArLQ9tDIL7o2gPz/pRuEnu5wcBsYoXbz3a3Q
2v4zZEPgDbCD8uqp2MS6TE9Nk2r9DTg7Ik0Gf21J8EZVaqXNcFwVty9sb3e9Fzg7p2BHDHm1Ij1
W3Dw49UVJTSTiVFL4zYuAXMJH3sU05fevNrH6MNMWASRZpnKqibBoZB7mPhj0nTzP8v0JPxPpVOr
4whnfzvBdTMu2uiGcpoY4XGUNZoDf3xpktmWzb1fbCp0kEBpXJvqmfSP0qsOR1XX2rnI6SjKBUE
tknAlYpQy425yXjc/V0joP/52IB02AmnI7I61CDd10Yahwzcer6Vk0dzWfqq80zz55k8TM5C0mN
9Ij1FGAdaKs0zwGpn309gkmSGwBZVNC1Rgn2FOa4Lak/PlEwrKdYUf15d5TrTza1auYJU+N5eUh
Zvf+Pk4L1pmVc3t1DZo7r+4CBgm/RgEYFq/yFeZj0dlFwxUda98h9izc00FMK38cnoJ9fH11xKQ
dPrbjXUStSm4QUZvAD4D0zRw9AxUXzUki1DLPLVkhMqXKbvPV6mry02JCfc6msQ1DKu9L4orB/gx
SkL9anoVaztUFx/zkFPx+85YjwSUCMOJ2dr5P+1bHTIt1/N4otpQvUh43+6vwEPt1/mhzm02IxR
2Xe3GTzpB+rImpqbX/DvJNu8o1r3z4nX3VSMEXJP9RUomCz6z5qMwfgBMTvz4t4mYucsFYFF6X9
EuPztff0JPEf64Y+Rcs0gzxsBcqU/z7JGV2V/XjwKxrqDKREvCDn9oVD0m8h1BMX1JZkWywhmF/

trqFt7CagsFr+wuDE7p2BHDHm1Ij1W3Dw49UVJMb4/tqYIK1iFm96eZ2ue/avQ4ST1bwH8aCEDc
/XMvzOLMLOnhaT2AUSWSIM0ToXeMEaavmzhKEt05qboR+Cypkk8yWBzJAMyBRCP+6+CjeXHM1+3
X1tIR7uWSQ7dt52T099o3P5PjLYP6gvnNKxTMA37rp+YfUXtd9QDGSFV6dD76WSuWo1W9YZOAHX
PuI7O/Zgij s1/ zteRu844dLvixqvMphOBxG2dEIOTMVSf2zAG2QXQELTwSliws4ZAMIEC5IptfL
SoUT6B1aFb650x+DV8qUyfkWC3FFFiPPoWRyApIvtZuII7F//V+Myql0T531aMyLXxQKfJpoZnd
2R1ECHKFs0zTx5i0b+G8dxk2BquGQOE1maCN1010Aa07vdu2UgwkKTz9ia3Wx3y1pS2u9DLHuVS
qn8MJ07MoWYjM775A8ra1T19vg0pSJ7PmJCjON4GY9opt0KxeS+N7wzCQj17c8s6BB1vgCJCsc
yyL+ddDNnTR1FBWHFcqL5K4CM3P9TPLCF9eQkH1Ltzb+7o2NUv+6CZCjwu8efiVE1c0zdpw9Urn
0pvr6hitW5sAlI5FDJxtZtGf2dnJNs3J1s+WsoxfGds3jiTbZYELV305FcFdr159HDb5sStegR0
TM7sIf8NUN3jLf2NL1jjTVAZ1125qdpbNZRGKn73DE0jK7OqNkijjUD0y2SprTXhUnPcgsjVBfK
dMxOT8ogSLyntHyTnnt9XsJ2LVppFst4TjtqQK5w3joPmA6asWH4C2ea6MIODdSBGcjUn140ydQ
6JVZgc3JGf7AG17/1K17gnF+iESWzJmr2xRKUC2Y/LmawEA1GfLFyPHQeh/BqZ9cC2Fe6l5+1nE
JVPGT536/OaSLB3/sRF5NWN5I3vesrOGyle6Dx/nVx5JRkEghcReQ8GW0tZsZRu2yUBUpTnWZHL
mCqyJNLqfJecocwQCLPmmM2i+/yZEW9jddVBLoo9hoMutH8cRi/GxZ7LFdTqKsnFghSC+mPwUj0
W8DZayk8xWuLTh7nV+HJyXzLeKMc1qYhWVJIB3C2NkLv6WSujbWc9GxKptCKf0qsT9ZXHIFPYO4
mVpQebK6IzSS68BtEmFZTBGR4/ITwWqixDmMQCRZmnboCQWaSZRa1HF65zjbMGRDBbFGKL RqoaF
A2k6wHmYm5ZCKWg0hBnD+WBC0MTSEJACLLRpN2RWwNT4kQGexhe0CaTzA91BTG1JtvC/7MQMXIX
iPtVVDd2AWlf0hFr3SCfCcVrx8xpawDmLhNIJCZBE1+qWwN7YPiC4rJ1ehzRUlKum6P+1vr/RIG
2sjEOD3LdWTCp0kEBpXJvqmfSP0qsOR1/m0taZENE7m7d15wE1EQvLMqddMaqzYQFy6m1QUlMEX
2nAfzZbIW5XgYzXW0d0bMmAKT/+qt3QI7QbSIBkMMmIrb1p9SL2FYajxIGqRkUwvZMXOhuvPKhD
rpVm1H/8M2m3ELAAXDiX1iIBK1ZvnhQbu+P8VWd7PXmP9Xu000VLqOXISb+g7U6qpX2z+Qhmj6
F8SRwrKdqCYy4CYygr55WMT14jjVI2zpGAnuhdFY6GHDdzyw0jwtfGrBrLUttDL1UHVWuttj2Jp
7m/df36Yrn1ER7A1MCBB5Z+ZV11xP02GHDdzyw0jwtfGrBrLUttDa10XUasri fJgPWrgZix5GHL
nfp93nx/iYky1iXuKtEGdHQ7/83JC0iVwZxbj2GTvTI0mTJzWM0bHmJP2zCuWnmbh0th2erDfaQ
SqbN6bxacc9ahaCH0zA0+iMP/noZbBTX7ymnh0JY7mnezf2SAmJ6xfu1+Wgbj2AxaNn6pBVnvdB
vM0Lr+1QFLe+5KGJxeIQAPmuTbra1Eof+wanx6IpGF3OBRMGgFtPdJ2CXFic15m0d7MSmgWiY7X
ZjyLYfD6Jry/Hu/fCzuRpWLS9iDhBmUniBwuiMZZNhrz7i/i2U68htP10AQ3WiHP5rJQOCtkoxA
Pfe3ceu3T+rJd5bmi6pC6NvI+QZREthBTGARH3fvFa5AJR72nX+19p5YUng+G8Wea4eVf6jxWoG
tMzRoTc3fGjBkwq1wujIbNycIoDiIVRvTsbwURF8dBcCiXBLEZgrFModY0n5KrzstXzMZ21D1/Z
OIRqu4in0UuyORUUq/lhe7+6mIksSrATOAX0ySEL3PF0hkjUVU5LwN8ZAbsaF5ImMsvsb/vBRf
MT1ue3Eo4p9Gh5Xer1sGiexs39isz+hI8ZgGT/5olbP/2d7DFKD011nkJAKS92Lk/Gx2Z95Ai
K6W7eayCUBdfWLbz3UsacttNhgjVdpjxaR22+oD9mXBQ8582Cb/AZ9i5X/jATCMI2Da3yHsIR2E
8v1JQHSvf51KAD9ic0tlgFIYgZ82e0OpSgJK9B/5e9AsDbMwZ/vWwB9P9nbaXE7sruRw0zw2Ymx
B/As8aMXVgWm+NpOweP0k+YUXaPD7NP0B1kRZX8WaxsRXpFQcOTJxwK7UfzUDxup5MAZdaAF05E
D1/u4SRNR1jhre+jblfueF5o86oUSivezSXXf1C4Srd0I7IjkI8fnxQjTN5nnH/dagCjNQmqPTQ
skQPyeDiMI79uTMZzOaxemxUy8KA4bqeVY7+qBE+Mz1x0zjEg4JzFknU6nPevNrH6MNNWASRznK
qibBpb4MTemCD/T7e6RkSZ7zJX3+Tw/YB1t0L03xFvTItxLBNMdtf9BzR48/dZqztXTRI/FEo4c
i0mw1xzemeOyHjSFnz6qsTQp+BPhPv2HxRMjjwV7rmuJb3appRqmRkkfAY805u/86QuJz8rFBmY
WPNkeY2uwq8ybcBgTbdzXavrf1PbwP7H50fmDvyQqYGjgABR2J21olxFp++aXl0Hbsy415wCiXm
dSg3oQwZhWYdsf9UR0WQLhEE3zYmq//qSzcKsx+S6pwyKJWPEG+u8xGJn0TKr+PJhsCi7Gh10CA
fZkbuk9oHYe1ib0P3/jVZBWYdog600ETtuT/3Z56nfM+NvpGP/BsjpE8y/803HCEXTDd+tNXUKB
43MxosX+LAGGQN8Roxm6AgwA+1CNBTTmZVhDHBtZqimozeLwwL+B+QFHZA BUP1m6Z6ZBT6t6Pzv
G22agXVnMwct32+wWGN3Xr0WPvkudhLPd01LwdjDStB332f+5QEJ2u96emoeMhtn1s1ro08Ndaf
gSqH4XRaCg94KtMZ7z25p0F8VzDqrq30KgiVYaiS4Sf8Fw+mNRF5JHfYQY81C8XTAym/Q4qAIV8

L062ur+4wijsVFLngFI2vIDwBA5YXq4IU77xfGqq8W/MEEKjYv8mFyFgPoiz1JavOsHPWoWgh9M
wnPojD/56GwWw0tAhzeQAxbMWFTSEcoUle/WQD1WFISgCnzy3DbMSQ+SKatmS0YtUgdaKwZR9/M
NLR8f+61lsqdzWeHwYrUehqZYVELCbTsnFX4Pf2Q3zNCziCdjaOLoX4ZR/6wrPkPhXIMUMS3NR3
1Qux2DWFjvhcNTdkb3hauEuMb1IormLE28Y1zVAo9u3ow/GV+XJngdoxBvpz0atKBykxm74LNIj
SV3qp0w/BWVjUTBS1xbePPALowdsvv49GuYznp007+ASyHrPi103/zCmTDNmgCH0tz1kRrL70vC
aS3udefSXyojbPlHouM5n+hzetonaHC3aen9cAoL6L8cBJC1dx8baJQsoPdlP1MA048rHB1hcQQ
imEyRnqKoZvvfRKuXNZR4p39XBysLMYv6ACZdKVTorKqk2rZKQpR1I1SKqd0rRW81ILBzZ0oibE
fHYGuHFJ0frCuxYauqYZHV0tKzm1NoKcQ/2jU+ShYrYpoHYGHWogjZwXqiSwqtu3YbDiuk/CFGi
LoGRqD10Sh2zbdGaJ8A1Fvb+0w6M5Q8QoHrvDJ4r5K1mvvH0bSXsHWIDeY8+2RRzuqXH6ZRy
YvqE2vgZbNgd701rF11QNxwVQqMX81u4G155XaP60VxtC0cY0fohDcy1Fi9rUDP2Pg2ghWw90sR
yuRfUOrH0YUct0U+1ScMdVv3WEGA/bnHRnz/J8F1kKQgvrpKIIfmcHeM0FQxoVjAKpa6mQ2K+kM
vtOyneR450oapuk4ZfM6IrJWQjuG8mqob16kMa4EvSwcvQc0k0G/Y77zjwIzkkx7bUdr/j1Y0Ff
U/b0KH1R1j7yfY606ugHw0Ydt0dI1WP0Ge8gS10fYHLAqbscaPj9Cx6UwC9HhvgE9LgBUxjazXb
J4cXRbaSuFPFDuCVhwm51/h9wF4Pp/ZUEX03oywmrogomYa4sONkQuqbl8en01VXY5MSg16Uabt
sD8jt/rTZcbbCVsdTNzjjA1s+DFwVMIGP1UojGhWI06EioAeeTZvVvj0Zs1AjHZd4ydI+8ys2RB
RHatyouD0io6D4V6i5cQ3BD9tFpzASFponHCTM097RSPtSIdILT8fn4us8D2EK3pDF6TY96ffUG
P0t6Z6+qvGne9MIMUESoKaK/r57L8Xa238k7eBaBYD2LVJEI1+GK1ac02SU6C5nCZqe1wTalgPz
Gh/U9Bj8mhlFmSoVsE4q9E7yokivOE3hr+9AWuWP6DH+WGNy9rIJ/8+mbTGTyOKbA2Ufz/i4wwc
QrLIsIntN6q3s/f/aIraPxD9h5xiArsY08NxFfNYhNW0PBtEB3/BME82Zio9ICaJn6R4ZZNM8tf
QS9eZws1KPDYFpc2n1GQhLW8xuoVjJHC0aL2Qtv8Aw4tXNBE2ukUUTPr1DjeJDyDVIxNGwBrqm5
Y1hAXRqA/1IsoGXTVfvuNYTqM/143YTMuKk3WkByUzeL64KyMggZ0wBUZZhMSdF4WS04Zp0v7ym
/1YrmRODuIBJgEqDp7/gNgK1aqG13+89Lx+RCRc85N5n5Y8oDepM3Mgp5CRGiGqLlpg1c6LdYs/
UTHrF2ensTvxNt70DtFCDJ3iew3gi4Y4E9RUT8CKi2pjE5rR0Z570Q41KXb+/c2YnTHBiNWdjzz
wpIB3H8z/lp+5wlbZkfxj5vJAp3Vt/y31pUfEIZn3yHArWqUoXw/e3W05VMLvfYQHLvkiwDLU25
RcrdLnWRH/7d4uBLmTG8KMVxsKU6/+9v0+SMZ1TwkD6fXOG9x/AgZsx0XJ2AWRpR4gUjMKBmJfK
ORwVavCKdsYIL1x2fSh2wjIDN3ga0dB3/YIvJo4IJU9d+NF4IuGUM2yLmBw0+xKhymoe0esPpch
09hahRx1XeIT2rMRxyI/Lm0s/8Ar3jtoG7/laSs5RFP1mMn9B9GuMKSdcIeWTXZMAzGwejQYPRc
GRGWWfo4PmXgtwX3MEIFT314oPXMwSZwynpUCnXOvt5eCj3HKn7GDnNiXSJuc2ISBFM/p+rzhP
Ujz+CD2Ud2TivnpdKTf/zyLPb6KCTzL81Djm8tx5qxIpUwHCT2RsyuoUIfYTA3V22LxC7vftnaV
jy7mFivL6uKhKMwbk4MLW07MwOq8mLDNM7d6pRpTn99wTwcRar2pM8pWk6Q11ERV7x+Z7v3y0vh
gbwpzi9MK77ViQsYGILKhLFinbxyjnfkk1W3FJG5AW4Y7Trbb1jsxc2KMSQ1uOysEe7aYUcq+ny
ZT9fDyJ6hmtuIYO4zYodygkxSEpZDepB000p/LPHJkkt/boW+WybSNq/MFk9xUF LRT9vA5dBY
ySMfEcvtM+wwAV69f+ZuI3ir21N2mdH7JTtP2U+cG37buUdNM4+6qCE88/nTkA35FbXUwG88GjI
iS1N6dymSOKSwC48rs/Waotk5FgxV1Zn7KLTfjF7duQPNKOT1CIFxZCKPbE+9KZUZSfef8QF8Aw
ah+a fykvhnUzg7BN8cnbHrLKM01YSHLA7m/Fs66ch1aLamWSindjom5t68c7RQMwa8q6tGTXoWM
yfr08x1dv01azqHsPKfyCMXyL4TM/xf6JgtuiwCYlgh1MSOUNSAbUKUCp357b05zg4buy/x41iL
nSbPcM46ffQepNA8iXKEVpLNdHWTht1SBqxZpKrjzEzcjFmW14Mht4YaxabCmB46yJKtpk332+U
jh0XiJ4a0xHRgrScdDiZcoHaxTgy8w1cdmdErpAQh4Z72o0N8/+q30MjAz1Cu3yo12cngZ6vNF0
0oA0s9SAaSYpWuH0EXk0fVNcA0J8Zw0b9S/kiH6CX92kdXYaKSj5gx1C3jvc+YCapb060wWIAQm
2gtwvtu+GrSbLtuwQp3epNDgXs9e8hsH+xZxjczJgZYTU0DITJQy13q6/cyvxUBNNK+7zjHTi4
KGW6+D69gKF/Y8fuLcveFom827/azmnNPoHJK8wuD7p8BIkYDSEHPbQfBKJR10RrAcfoYXo0+V
K3MavQHpo0no2D115nx+ahVExyAxY5f21xm/VOSfZQkrDBpORgiBsNYtI6doIcjj3u/c5ZBPR3veS
bQktSrG0oKsnmK5JuvC9ggAu7MABFP8EWFaM0475erVSTgU7g14Hm+DPWJrxCaULrc3IWJN0/qJ
WnOQJOe00k0CcWvZAMYYV28xzk+6WVu5WJHVjHfPYLrOwv3cvyd/2zP17Ju/iY4qdtB2RIYBN2

74MfBuGurhuZUWoiQB9UgzYuPoC8U4unvOPStm+lYmLE7/VXZWGJCIPSuIah1X0WYH9EZfgW8EU
VZKS1RwFroAw9NcHBGCLjck5wmQ6CRrvf4XGDzQict+ASjTUbSRH1maMOa1RtZswAotGqhoUDaT
rAeZib1kLRhokzVHi0hSts1i+bFs sqv1ix25sG91oUuP6sgoh+QutVHpTy+WZ01nOTYTW1DnYC6
SUpSgDKYQiKmAtkFiKDoLTxu1ER6b8SzbTgaPK6NBHE5AcPi/b5uRGZ+Mg1FtB7s22iAIkRpn+9
g0SYaBLhBw90kgxs8waqRgBxvzLjeo80Et1gi46s6g+ULLYFMJDt7ENa+UFZBQppLv01eEpzaNY
hrRVBIqYjEopz9FjUsG4CakUmtvU7xLL/noOqxTwkAegBx10u9pStHSN4uTw8mb0TA0USXVwCy1
17M9LLeyrm4oMhnog1lAxhGU9Rwi9YMLPokcMx3XT6CwerCaLsaH4g8Ibzqg4x+HAFoGyZ57S9K
6PiCUDGmHnq2qMBs3Kj5zQXhEhEU1E22qB+/MMIC1SzbxGCCGgChezPK1vrIwwDRJWfa26FexBk4
rd3VdDTXJMWt5VP328sy5ASSm+xjbpa/103dq9A8BohOJsxuKuKhq9wdETdTW3wqThygnCIPb++
vwJPKFOCnaXrDZDRtGe89uaThfFcw6q6t9CoJoLbJLdd+5IbszdQdT9+y4P00C2GB0XwQw0h05
2vpFv8Q3goayWfJTZA6/5KupQp1HdIqozjDom5q2Gv9hK01TXRWDzqqWinW6whuosvZQfD2cvi
q0I11iXvk3QWQ5K/EhU1AZ3f0zZBAbi3rupXNW4zZa+OioXjs2ir0/pg/x3M9TGhr0WOZW33jfw
9qHxGTPFnVR2UpTQWLxWmjHpfvQDR8/0bR1JPVleFmw3cc4x7cLqJuV9q7dTRdkXQ2YWbE3R6Xi
SwGx++xiIsa/8L5i5YzC4Le7oQBKdy+5BpFyJFt/8IDN8YXY4G7LZ1FEhqFoNtXexn4YLyQKpWc
YsvxzjaogHGRNVvxQ5DFYzi6US4mfV3CdDzmIQBMNIDtIJj5UitsnizXri0uKsagBW6t4kgrUFh
5c1EcJEXbpEn5c6PJ0ZPfuF2C6oGfHWju1e+ohQhbeUE+E+kuTPHC6Jg+HiJA7MGKZt7N5oDfJr
3DbvDtiNAvvcM9dnzVOqerKHSqIn38rNvViRw9mpRs4kkJDv7/NVubPRbMD0NxbtVpp3KNNf+Gi
ySG5YVjzIuiw80SAuTu5rwxZJ/+HcOZfsGK1VV3DfyXgQG3v81dlwJ1f0ZwQctLPDJMq3ex6913
8kVHRT02dt1t2D33eUw1hTj7xs9VvB7HDMer4vk5twvXmIpoYmMiPcLjQ9cbGsCErhZfSHa7xzu
VlHmovevf+6mnznEML3pjZrrLeDGe5i18NmH2m1/5ABnFkDpRLTr0VDBsAmzQ49P+9oc6ULY0ic
EeIffg1OPkZcKYXhpI9Vngn+UeLcuRPTUpKUqsjhVkmPYHwYRIzh2r7SXaQ3WnR8b8q7sbULGOV
gg0WEyW335dSRCcWQJIZ/CZxaaq3FgjxyFfm+6Ht4dlKMvz1xxeE3cwUARue0viOrgCJ6YMGs8h
RY3PnAIKR3GERj2tTjwPrmPgbXnldo/rRXG0I5xjR+iENzKUWL2tQM/Y+DaCFbD0685cbVDQgcj
mBdPBojT95fWEIBGNz97ENRwo9asslpDhJlNIDkOMkclbH0zkq2HNe397C0ltiYtPlMhUzPSPLi
6Wv8B4yfStjsFep/BiJIA40ts1Io4/k9Isorr+cQ/s9YGF10bSF7w+hiDaxE0AFcjINEiM60si6
QgFjLeyEzabvavY8ec9BuEoZ5JxH/NcH19EXqyTYS0hbJU06DBQLf31xA8XDLCPwY1E4bzgudXD
91MbPx6KrWDM6f++0fkXcJPxnGL2f9pZ0E45L45WXZhohjXoo5wUzF4Cv0kBunGRhUD8icVwVrI
eXZYB81opw1HQ4tGF6I2HeEUe2JmaG5D7S1wDoXNFWB2fvGIqtuHz7djswX0NoWvNq1SQfRGJU3
5/WMP4EPKx9PrNz2KQ0cENZh0zdU8J60Cs01ynOF0yPpXmMqgOWDCqWUZCrHgwlxMQpsVCqn5wE
gZ1V3hzhoFBHE5AcPi/b5uRGZ+Mg1FtB7s22iAIkRpn+9g0SYaBLvmiygeqoSzs3kZsRFYXb81r
ed11/3EiAT9puzzJ1lc6RZA3MxOJ8gFtWB9vZyYbVb8i2T5Z/0ko7xcArwd9C0YXYWL/ahg2eEwz
d+5TyLDuBvYJJkhsAWVTQpUYJ9hTmuGr9TC4JncwG8hbQdPmv6ZatvZz1bpHr1rvhp031bnhCG4
BNxJI9Afn3HeChkKae01kiQk7fcXJpVVAx+WntxovQf8RX7v9hai833FoY8Yu1Y92yzPKbtmPi5
cuoSzRTBEqzcb3pSKtJuNJdVwcYRqb781XNhc70wLQRLdbAFZA4DdIf4voTEceFAjwSg70dHJeV
DU/hektJjTpR71JBfWBhzdPH1IC7wuCwnhrgdhs3iDtwfplI4EptNKzAcgbvqDuNUXBOoVDgYBn
ToY+qJ0UteS3+ER/ropzuQGAcDawMqK0ohElksD3Sz/8XU9iEPdEYAy2ddEzpxrNHr2oJndWj3Q
esTDS8QLnTXcpS6NahLwEL7Jj6DJ3TvxqeMncd59tjTrkRRwB+6PXF+GlgHmgIZhf7a6hbewmqr
Ba/sLgxw9k/AWxEXpz630hyM32r6xQCbY0QrF2JwrpNYeDla81ha0vsQW+rQF+F2b2iGKPShrY3
1RsfgxC0yr/G5Y1kdUu15YJZzVb65rAn2KiH0jzhuZUWoiQB9UgzYuPoC8U41Rb++eT3YEJGkRs
eJQQPgoPm9Uz1mQk1ZGFv99YFxz9aaCGFUWpaPh2itSemV8JGfn0ihjzJwg7FLm1iSsyoySa8qS
I+9xk6R/s4VlEMJnNabLKvTJMpsUwbZGT1NhEeP2ht8fZBbK91PfGG5Oyj0V55K++UJCuQfJ4+x
ParnI/B1Z1IWYF1iXb3v0A2oQujN4zWFMxWra6pn0cESPU+Xpz3r3YbL1opB2aQVIiMVnhBJcMg
xEC7k8a4FnEAHqhFehIqiBnpzuy81mPkPfscmkG6q7G4vgmdf179K3SIY96eF4gXvZVdNWe4wqv

BC1wvnLdCwZu+QaEat1zNKz455d0G8zQuv7VAUt77koYnF4irhXre8XZ3efgBs0h7jz amr74wj1
8kRiyJT+9B47Ra+UfI5/vpIVHuwkfJfzqk2jQ=" }

Decryption:

```
{
  "code": "200",
  "msg": "请求成功",
  "success": true,
  "requestId": "2c9497b1e28c4d56a37f3d21964b4602",
  "timestamp": "1711434034933",
  "sign": "5eb1f067df34f917aa554da5e9ee0dcd",
  "data": {
    "list": [
      {
        "createTime": "2024-03-26T14:04:38+08:00",
        "deviceSn": "J40-22-YJ-342144-1180",
        "mapFileId": "8147803001385705479",
        "mapFilePath": "user/root/business/2024-3/maps/34ecff21e5d94cd1/",
        "mapHigh": 551,
        "mapId": "8147803001385959424",
        "mapImagePath": "user/root/business/2024-3/maps/34ecff21e5d94cd1/door2.png",
        "mapImageUrl": "http://yjh-oss-bucket-test.oss-cn-shenzhen.aliyuncs.com/user/root/business/2024-3/maps/34ecff21e5d94cd1/door2.png?Expires=1711436679&OSSAccessKeyId=LTAI5tLzGj41xXeMUWm57799&Signature=4TGJUFIPyCRbI2exKCeMg6u1Xio%3D",
        "mapName": "door2",
        "mapStatus": 0,
        "mapUuid": "8147803001385959424",
        "mapWidth": 557,
        "sourceId": "8147803001385959424",
        "updateTime": "2024-03-26T14:08:49+08:00",
      },
      ...
    ],
    "pageNo": 1,
    "pageSize": 10,
    "totalCount": 16,
    "totalPage": 2
  },
  "deviceSn": "J40-22-YJ-342144-1180"
}
```

17. Get Map Detail Information Interface

Interface Instructions:

Address	/cloud/open/openapi/map/detail		
Description	Get detailed information of a specific map		
Method	POST		
Field Name	Type	Mandatory	Remarks
token	String	Y	Call the token interface to obtain
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows :

Field Name	Type	Mandatory	Remarks
requestId	String	Y	Each request's unique identifier, generated by the initiator, is fixed at 32 characters in length and can only contain numbers or letters.
timestamp	String	Y	Current request timestamp, accurate to milliseconds, for the convenience of diagnosing network latency.
sign	String	Y	Signatures generated using the developer account's key will be computed and compared by the cloud platform server using the same algorithm. Requests with inconsistent signatures will be rejected.
MapId	Long	Y	Map Id

Response Description:

Field Name	Type	Mandatory	Remarks
encryptScript	String	Y	Return the ciphertext of the parameter.

The decryption of the encryptScript parameter is as follows :

Field Name	Type	Mandatory	Remarks
code	String	Y	Response Code, 200 for success, others for failure.
msg	String	Y	Response Information
success	Boolean	Y	Success Indicator, Success true, Failure false
requestId	String	Y	Request parameter requestId
timestamp	String	Y	Timestamp
sign	String	Y	Sign
data	Object		
createTime	Date	Y	Creation Date

Field Name	Type	Mandatory	Remarks
deviceSn	String	Y	Machine SN number
extendParams	String	N	Extension parameters
mapFileId	Long	Y	Map Compression Package File ID
mapFilePath	String	Y	Map Compression Package File Path
mapHigh	int	Y	Map height (px), 0 indicates that the device end did not pass in
mapWidth	int	Y	Map width (px), 0 indicates that the device side did not pass in
mapStatus	int	Y	Map Status: 0.Enabled, 1.Disabled, 2.Deleted, 3. Synchronizing After Modification, 4.Failed to Synchronize After Modification)
mapUuid	String	Y	Map's UUID
mapId	Long	Y	Map's ID[Cloud Database]
mapImagePath	String	Y	Map Image File Path
mapImageUrl	String	Y	Map Image File Url
mapName	String	Y	Map's name
sourceId	String	Y	Device-generated map ID (32 characters)
updateTime	Date	Y	The time of map update
mapInfoJsonUrl	String	Y	map_info.json 文件 url

Request Example:

```
{
  "encryptScript":
    "axkQ/QP3INFui6h00cIBgsZTpQRo11bXVwNrb/q4i10qD0ni406Q1GShtAbKbI4edDBr4LP1tQh+57FE1+3dgyJI1Nqloic4j/pHuQmIhWPpkip10S2S
    LdaMdKzLQI1I5s2ttnA9NBLQ0g7+DW/FDYCqwEwyNp/Vo5JPQ4qwn0BQ4Yh5jt/15NrV4XgsVGHEJRtCFGVcLLoiewHAcz/A==",
  "token": "noLZUWknqpwaFvV2J4LP91S+4N8JUwtN0xFbrDNZ5CU="
}
```

Response Example:

Encryption:

```
{
  "appId": "59c911c36ace1127",
  "encryptScript":
    "gpBabeRTHZuANCxdXfZbKfgnnq9V8GhmRM/d7aW+PrvDnMtRkFmTlcA9sokBNeK9mI74Gcq2pw1NbJ06esXVveh6XqXciyi20STtuk35Kg/pkZWG+ra0
    IUtHOBPU3s71/ievtbdN0yCWGQpB3/xCF1E9cvcF6Kj1Q5k+4tYTw4yNJIRhB3ARTB0BTtL6WLMti5riY35z6DcBsMftV76/W0+3FA28uZMcEwSvT0bnnQM
    vvSKjepf0NKyqFh0EfiwUlmstuzNoWJRSgIFPvc/46N0oWa0IHsY16/m4gJ6k0tzBHOPlYGc4wRbEvQvc6yc52aH/hhM11AiTXO6RGFxoHIXDf/U0vk1R
    1pLajnoF7ujl6IF4wMpgDcqRuReBkJIzIqQBsjSkJWpJsbvKGa2Bmy3XrasBjTv25oe/Of3DSFzmxbaCA2KVtv3nziiTYwMateVCsQjmfBUgovv428oFLEm
    LV6tamTzzIMM0v+1+FZne8v4p1fMoEUQHItb2cRo2My6+dH/FeDsdRILf9uqmw4L0IUqorPiN+yz03svFHCg5pZitiRijzQFIdcFFPZ4pYCO+hY3dHJskey
    XJMFEMQFWXYPJxhyqjBISdh9C7EHFjFndMkf7EQ2VV/vxdZ56Ye1uaVqDRFybb7Vc5efceqc2iTs5x2JH9aTXfa07RoJjZ6LclIi6I0wprNXsA9uZ7Nrht
    t3hsH1+P3HNNWjrTMA74pX+hEBnvMkBNv9Vor11JJ36cUwFs5oec41Si+6HnspB8BwLLqe2W6PMe3v1L0o8X4w6h59n0Esysk3iLViuBvB+khjDmegIEh7
    1c+aj3sSxC8jbt24NLkrIzMc3BUQpV+5sIQ9d1HK4LHd+80HhfsuYrc9MSYiVwCQQ4qS8pwRFF5NCBmTOiGKTpD4L7qvMaFwNn1sZC4Aq+Vf1/2a7m4ykqMo
    dEwUoVROTOD81bC2nNAVOnUp2XjZEEz4VWz99mihCwJFhgYVnphu+q1DTC1vtPssCnU60JiRi2fJ8efeZT/wsDNAuqSnd9o/Guzb9z9MrvHpc830EaKBaTi
    uEay7YTZYTip4eoy7kLN6e1GqtF1vdGt7If3kNkuvIrurxaac4K37+k0U9+UV8630QTt4y8CrI+7zNw63TWY6o8de///z5j3N4KcWeShX+RDxQIhPBQq3gP
    /w6abVkhOVofbDHowFEl5yM1yuZd40brJCNNTwDJEnLzQAfNKruKSReM256s1+vodP2pV2y8aepN9rauaC6amuestUaGe2r38H7Za1sUux2QQRfbcsYFsiw
    HDip7LACm40rUcN/15f9uNUZ/IpwVjFfwOcalUieOBzFtbTpmusRVg/BsU7Av1abBrR65LS7oXtkX+PMLqKXp1Is2Ed2upwD2n3uwEpqndMZfb+qWphei
    hBJTCosXPw5yP0FnmjT4+PHMMHAK31ahYd9JPPmEZcG2Ldmw4oTa9uZu3++OCewnhecuRXb093VIj41PhJ4u8zff+JoqZxbDZz9a19XIhXEudU9NDIyzT
    a7IId+SSGj/AlrpKHjJBklD/4oL+J6tOZ+UKUKB6iHFx+HtuGQfOVmQmvgb2FJAiFdn3lDbLlPd5VWjvsvhox4/1H10U4lyuF0sHHFoucTFsrhiPMX3s
    doOCPpIvmScrvVfIQSt4AS7tPEdPmFH9tEXkjte1nLAH7UiCqM+EQLMH4YXe7G2WSp0aFuy1PzoKzfNtdilwdyX0QKY+WmIW94MqjYx2wJqY0uoZ6YvfQUE
    GFkVf3KiaYXyhf9jVYyAMjafcueBR5YDQSSyGwga7ynp/1bpYKz70Es0rf++NjckPnOxNC5D08FQpZ9FraZPh/EJQE1CeE5gZqHqHMAfb3pxeuL1ucXGqt
    jytHsrNRtQ0/zRVgZ1dS/tozNDhw3fGMnz12ngY6dDBmM0RPg7VtyCYgBI7CrMsuL5yL0LPLiR59JRhCH13zZAOKU/pdCzxdznCQcXQPws3Nt/TsbziWpi3
    j5xKSYW8uuC904VJ0GdX5grsZMtEdZUCsOn8aru5MhbFLpRcsi+JXbAt8oTE6vgyr0I9+MBhwadHyr013M+2LNJe1vCFIInCg03uUp90iSTDzSszGI2I4+8r
    oMKG0Kedhxt7Vi05D2yZiYiscTGRn3orr7WwFfWX60ByTdPF+A/+qcd6qbVen5cTiSM8H1J7A4ILscblidyw2UnUuGhCwGRaidIgsEdGn2cyqf65Vq6/aEswT
    oWcgs45RF3jCxbX6oWQvxlscdlOwGZMbDAaWLpabnCOM1V0+KAP9Z9c7xuI1rSh89DGkSukoSRdUSjAVV0qrFQkUmgIRKVG6SULirxGRZAANTxc4S19PvRyG
    pJLSHTW0M4UttLJ1kqddQ1kGffxbEHTanZ/Rr0b68Nm4xW3rgbsc24h/YatnPUPRzASdqOm86a1MZS6PcjZw3msWU401hbQdp5gKIr+1F8nUryL10xMGt
    ohltf9AgcmIZbPfwuHXzsEHKEKDGtze3RdlxHvIHjAu64D5wvf3PDkqXrGadnjBNH5QWqkOVpGkY+KDGUjFkqfW7n2wKBmya7GjtaiH4="
}
```

Decryption:

```
{
  "code": "200",
  "msg": "请求成功",
  "success": true,
  "requestId": "f5956794ac124777a88b410ee5e1cad4",
  "timestamp": "1712570611195",
  "sign": "7c41fdd9adbcc76b4953040487d30763",
  "data": {
    "companyId": "8169052295511900160",
    "createTime": "2024-04-02T19:42:22+08:00",
    "deviceSn": "J40-23-CP-343457-2479",
    "extendParams": ""
  },
  {
    "\deviceUpdateTs": 1712058131854,
    "\mapHigh": 547,
    "\mapName": "\map20240401",
    "\mapWidth": 957,
    "\md5": "\deviceUpdateTs\map20240401.pbstream": 9660b9196a9a5fe9a2f77d627779f333,
    "\map20240401.pgm": 697fbd41d78b32
    139dcba17e4aa4f4b,
    "\map20240401.png": 4f66f6d8f7f2e9dc5a295d4f17762727,
    "\map20240401.yam1": 89c18e
    d860ce0411e4e35fc238c5d72c,
    "\map_info.json": 9a928f5c7fd3a1b43b383e0a39416b6b,
    "\small_database.yam1": e04fac87a18690bbb7b256b8628ba750,
    "\verify_info.txt": d751713988987e9331980363e24189ce,
    "\sourceId": 87bd00cd-c3c4-4c2b-8318-3447003e6443,
    "\n": "\n",
    "isUsing": false,
    "mapFileId": 8169279722620133376,
    "mapFilePath": user/root/business/2024-4/maps/64a6652f90a34586/,
    "mapHigh": 547,
    "mapId": 8169280066217549825,
    "mapImagePath": user/root/business/2024-4/maps/64a6652f90a34586/map20240401.png,
    "mapImageUrl": http://yjh-oss-bucket-aliyun.oss-cn-shenzhen.aliyuncs.com/user/root/business/2024-
    4/maps/64a6652f90a34586/map20240401.png?
    Expires=1712573629&OSSAccessKeyId=LTAIStLzGj41xXeMUWM57799&Signature=QJafXUKASerRZDyyUys1%2FgEF1Cw%3D&ts=1712570611156"
  },
  {
    "mapInfoJsonUrl": http://yjh-oss-bucket-aliyun.oss-cn-shenzhen.aliyuncs.com/user/root/business/2024-
    4/maps/64a6652f90a34586/map_info.json?
    Expires=1712573629&OSSAccessKeyId=LTAIStLzGj41xXeMUWM57799&Signature=UmAPxfG0p0slb12VWI2qOCJ29CE%3D&ts=1712570611161",
    "mapName": "map20240401",
    "mapStatus": 0,
    "mapUuid": 87bd00cd-c3c4-4c2b-8318-3447003e6443,
    "mapWidth": 957,
    "sourceId": 87bd00cd-c3c4-4c2b-8318-3447003e6443,
    "updateTime": "2024-04-02T19:42:22+08:00"
  },
  },
  "mapId": "8169280066217549825"
}
```

18. Remote cleaning path issuing interface

Interface Instructions:

Address	/cloud/open/openapi/device/clean		
Description	Proactively issue cleaning path		
Method	POST		
Field Name	Type	Mandatory	Remarks
token	String	Y	Call the token interface to obtain
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows:

Field Name	Type	Mandatory	Remarks
requestId	String	Y	Each request's unique identifier, generated by the initiator, is fixed at 32 characters in length and can only contain numbers or letters.
timestamp	String	Y	Current request timestamp, accurate to milliseconds, for the convenience of diagnosing network latency.
sign	String	Y	Signatures generated using the developer account's key will be computed and compared by the cloud platform server using the same algorithm. Requests with inconsistent signatures will be rejected.
bodyStr	String	Y	Request Data (Convert JSONObject to String format, see the table below)
deviceSn	String	Y	Machine SN number

bodyStr String格式:

```
{"mapUuid":"r23guiqf1r389gfqufgwr13fiyvqw","mapName":"醉酒的玫瑰","taskName":"","cleanMode":1,"cleanTimes":1,"strength":1,"path":[{"x":382.35454313964846,"y":419.05377470092776},{x":382.29396313964844,"y":417.0547147009277},{x":382.2333831396484,"y":415.0556347009277},{x":382.17280313964847,"y":413.05654470092776},{x":382.11224313964846,"y":411.05747470092774},{x":382.05164313964843,"y":409.0584047009277},{x":381.99107313964845,"y":407.05929470092775}]}
```

Response Description:

Field Name	Type	Mandatory	Remarks
encryptScript	String	Y	Return the ciphertext of the parameter.

The decryption of the encryptScript parameter is as follows :

Field Name	Type	Mandatory	Remarks
code	String	Y	Response Code, 200 for success, others for failure.
msg	String	Y	Response Information
success	Boolean	Y	Success Indicator, Success true, Failure false
requestId	String	Y	Request parameter requestId
timestamp	String	Y	Timestamp
sign	String	Y	Sign
data	Object		
succesed	String	Y	Message received after the device end receives the instruction, This message does not represent the result of execution.
msg	Boolean	Y	Describe the status of the device receiving instructions.This message does not represent the result of execution.

Request Example:

```
{
  "encryptScript":
    "6BPT+S+rEwMo57aSN2TG67ByPhUfCkP2eVTyc0Hoi4lZM/I4Qq5N3eANAXxbrqg6LrgEnWhdakUELiR6JXJsrRRUHTYIe9+1iAyTNX
    ODgTLB/pCx1spyPET00HZuecZf9qcYtcg2Rtsf0Kvngv0jtyXiodTgqDJJuLnaQ288g6TtICX4qfwubKLH1bBOU2vRLSNI1p6sf0r3L
    mlzLv/As0JjpE7jfo4waB1E0SVSFY2jR1N6iHobgsfXW1kC83cn1085MQw/3PXU7L5XZXKpAKg3ra9oCYouU4gbBaPAHH36wutYuRcV
    6UfcUt7YUboZ+YdUJnJjSaUvmravo94FS9SHvKyoYsm9hgjQoTCogrndQv0S0dCP2YtBzqIe10yiY0gMXWQdbd2Gp1r6kxFTnC5gZuA
    FCTQaHYyn9uQoGhx6gQkw8reetzuN6So8uQitignB1+PKc2BFidQwVFDEsqgp1TiBeraHe5wCw4XwZao/4Uhks9Y208YvAIZ636e6mJ
    oHxibtAiTc/WRmpHouJ2ECkrb0GtQl+SmUEzh4pAlN9xmw2o9G8093b0bzcSHsM71vZOYhSwA72oE2do0AnWz5+M3sSroIY6ldGHKp1
    J/gWhMlBy/e7RU2U5bcDs7IElAiYuJc8U+4mmpers60qESoZ0X7vWydah0ui6Y2t1lk8JcD2KZxDp4bDyzsb01Jy6dP0ygJQJdy+z7r
    oIZsFWft4IySMKBfgck/MFxJpzp6KCefqT3KukUI8MSTl/JubGjpilgqYQwsQCEJJKYe6ktI2qLpVJSko6LrRXP9aHshQ7qA8LSJCHa
    9YJ1K3qL1hr9+DNgK27MkCTA8K9s8vxp7U5YmQmnZG0y9iYxm2hP1g4xDuhfPkw0VeGhcfL4ZXtzqiC5CDx1mPb2c2N9w0A==",
  "token": "noLZUWknqpwafvV2J4LP9lS+4N8JUwtN0xFbrDNZ5CU="
}
```

Response Example1:

Encryption:

```
{
  "encryptScript":
    "PoZdn5gqc0TkA2A7Pghq33qA1eCXbx6fzC5eIJ3PqCURYmVSjfgucP43d2UjRcR00ClWAgUf2UMevrk0Djjil2Thhd6DEW/Dby4zPr
    hUMqpuwRfMeyIvu0UhgBvzAH22Wo74AYBOXRAawCzOmtEzpj0+4gC8JEV/AzCVhYVVKt1sf/cKbCIZ6QSRdp3TA76gigY/7uBbF4DRP
    yd0u6vNX51R1d9VKDdnCRbLQ+RECMAT1sFwBrwrE20EUUVV0oUyHqL/DUAZFQ0nMQQ8a1qo4nh8D4ApxwUJv+On5sWVCyoLpC4kBfMN
    tRdWjfqL1UAQ59fs2T9ES+eqNZjfN8m7My1xbzg1+QDFBGFln0Ltf6HT1g4xDuhfPkw0VeGhcfL4ZBjkhXStKXa9WjdBZ3dmUFW=="
}
```

Decryption:

```
{
  "code": "200",
  "msg": "请求成功",
  "success": true,
  "requestId": "3279ee834e2a44fda17d65a4108b14dc",
  "timestamp": "1711420307908",
  "sign": "19206e34e9c15c4af2a1d5c403459e14",
  "data": {
    "msg": "succeeded",
    "succeeded": true
  }
}
```

Response Example2:

Encryption:

```
{
  "encryptScript":
    "QTKf2Tqu+iCy7a3byo3yHom9/wMTqrj09mqz9ssKj29EbPwMQFRwjb+FX000Zj3f76x19qmH4LE4TYm2yPPc+8GmKk5wIKKkc3ZiHc
    8+ouMV9BaMikJy2hf1eRjF5lGCHVmFm7yz10TgmPagr9eTl1Q0VCEDBxs2m4ss8catZI="
}
```

Decryption:

```
{
  "code": "30001",
  "msg": "设备无响应",
  "success": false,
  "timestamp": "1711420447492",
  "sign": "61387c4d5efbb0e64efa77aca9564f84"
}
```

19. Target Point Move Interface

Interface Instructions:

Address	/cloud/open/openapi/device/move		
Description	Control the machine to move towards the target point.		
Method	POST		
Field Name	Type	Mandatory	Remarks
token	String	Y	Call the token interface to obtain
encryptScript	String	Y	Return parameter ciphertext

The decryption of the encryptScript parameter is as follows:

Field Name	Type	Mandatory	Remarks
requestId	String	Y	Each request's unique identifier, generated by the initiator, is fixed at 32 characters in length and can only contain numbers or letters.
timestamp	String	Y	Current request timestamp, accurate to milliseconds, for the convenience of diagnosing network latency.
sign	String	Y	Signatures generated using the developer account's key will be computed and compared by the cloud platform server using the same algorithm. Requests with inconsistent signatures will be rejected.
bodyStr	String	Y	Request Data (Convert JSONObject to String format, see the table below)
deviceSn	String	Y	Machine SN number

bodyStr String格式:

```
{ "destination": { "angle": 0.0, "gridX": 282.0, "gridY": 131.0 }, "mapName": "w偶就不信了", "mapUuid": "d4a38b3a-c54a-4c3b-97b1-6e2ab63e21cb" }
```

Response Description:

Field Name	Type	Mandatory	Remarks
encryptScript	String	Y	Return the ciphertext of the parameter.

The decryption of the encryptScript parameter is as follows :

Field Name	Type	Mandatory	Remarks
code	String	Y	Response Code, 200 for success, others for failure.
msg	String	Y	Response Information
success	Boolean	Y	Success Indicator, Success true, Failure false
requestId	String	Y	Request parameter requestId
timestamp	String	Y	Timestamp
sign	String	Y	Sign
data	Object		
succesed	String	Y	Message received after the device end receives the instruction, This message does not represent the result of execution.
msg	Boolean	Y	Describe the status of the device receiving instructions.This message does not represent the result of execution.

Request Example:

```
{
  "encryptScript":
  "8xTuSrvNSPIYSTffHyKFX+9ZkLTi3U0q20TkXAYQHazzpoldYsp3Ng6csCSFKZaoT8Q9T6pwsYNP9sV9qrPTqXJDECh2Mfk3sF56hL
6Aqg0oHjYlR1s6j2IDvn9oSPfvZ09pIqgnFsFMYLigwp6OCX+1cYD2K8bzRNAabI440EacYrqpTPg64CBYctV2TZ0aHppuy64nwGtFf
Mf1AFrgc9yoQsNwN+fVH/4fpEcG383RV0RpKgGaILJRD4L4QW1RR8u4bBTSfWxuJR5y0gUTZg==",
  "token": "noLZUWknqpwafvV2J4LP9IS+4N8JUwtN0xFbrDNZ5CU="
}
```

Response Example1:

Encryption:

```
{
  "encryptScript":
  "PoZdn5gqc0TkA2A7Pghq33qA1eCXbx6fzC5eIJ3PqCURYmVsjfgucP43d2UjRcR00ClWAgUf2UMevrk0Djji12Thhd6DEW/Dby4zPr
hUMqpuwRfMeyIvuOUhgBvzAH22Wo74AYBOXRAawCzOmtEzpj0+4gC8JEV/AzCVhYVVKt1sf/cKbCIZ6QSRdp3TA76gigY/7uBbF4DRP
yd0u6vNX51R1d9VKDdnCRbLQ+RECMAT1sFwBrwrE20EUUVYV0oUyHqL/DUAZfQ0nMQQ8a1qo4nh8D4ApxwUJv+On5sWVCyoLpC4kBFMN
tRdWjfqLUAQ59fs2T9ES+eqNZjfn8m7My1xbzg1+QDFBGFln0Ltf6HT1g4xDuhfPkw0VeGhcfL4ZBjkhXStKXa9WjdBZ3dmUFw=="
}
```

Decryption:

```
{
  "code": "200",
  "msg": "请求成功",
  "success": true,
  "requestId": "3279ee834e2a44fda17d65a4108b14dc",
  "timestamp": "1711420307908",
  "sign": "19206e34e9c15c4af2a1d5c403459e14",
  "data": {
    "msg": "succeeded",
    "succeeded": true
  }
}
```

Response Example2:

Encryption:

```
{
  "encryptScript":
  "QTkF2Tqu+iCy7a3byo3yHom9/wMTqrj09mqz9ssKj29EbPwmQFRwjb+FX000Zj3f76x19qmH4LE4TYm2yPPc+8GmKk5wIKKkc3ZiHc
8+ouMV9BaMikJy2hf1eRjf5lGCHVmFm7yz10TgmPagr9eTlI0VCEDBxs2m4ss88catZI="
}
```

Decryption:

```
{
  "code": "30001",
  "msg": "设备无响应",
  "success": false,
  "timestamp": "1711420447492",
  "sign": "61387c4d5efbb0e64efa77aca9564f84"
}
```


3.Maven Introduction

```
<dependency>
  <groupId>cn.hutool</groupId>
  <artifactId>hutool-all</artifactId>
  <version>5.6.3</version>
</dependency>
```

4.Error Code

Error Code	Error Description
0	Parameter missing
200	Request Successfully
400	System Error
10000	Signature Error
10001	AppId Not Registered
10002	Token Parameter Missing
10003	User information has been frozen
10004	Invalid token or token expired, please re-obtain.
20000	Invalid token or token expired, please re-obtain.
20001	Request has expired