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优配API

登录

简要描述：

- 用户验证接口，获取系统Token

接口版本：

版本号	制定人	制定日期	修订日期
2.0.0	lenny	2020-06-20	2020-06-20

请求URL：

- 测试环境地址：<http://120.25.245.20:8092/OpenApi/login>
- 生产环境地址：<http://cloud.assetscontrols.com:8092/OpenApi/login>

请求方式：

- POST

请求头：

参数名	是否必须	类型	说明
Content-Type	是	string	请求类型： application/json

请求参数：

参数名	是否必须	类型	说明
FUserName	是	string	用户名
FPassword	是	string	密码 (MD5(32))

返回示例：

正确时返回：

```
{
```

```

    "Result": 200,
    "Message": "success",
    "FObject": [{
        "FUserName": "admin",
        "FUserGUID": "63C399BD-2A0B-40E9-857D-6DEBF4908F92",
        "FTokenID": "DB7F20D9-84C3-44C3-B05A-06A9C392A189",
        "FExpireTime": "2020-07-30T08:00:00"
    }]
}

```

错误时返回:

```

{
    "Result": 103,
    "Message": "userName or password is error",
    "FObject": null
}

```

返回参数说明:

参数名	类型	说明
FUserName	String	用户名
FUserGUID	String	用户唯一标识
FTokenID	String	身份唯一标识（后面请求接口均需要以此作为身份验证）
FExpireTime	DateTime	账户过期时间（UTC时间，转成北京时间需要+8小时）

备注:

- 更多返回错误代码如下：
- 106：账户过期
- 103：用户名或者密码错误
- 102：请求参数错误

请求示例:

Java:

```

String result = "";
//请求路径
String url = "http://cloud.assetscontrols.com:8092/OpenApi/login";

```

```

//请求参数 ,json格式参数, 建议用对象传入
String body = "{UserName:\"admin\", FPassword:\"E10ADC3949BA59ABBE56E057F20F883E\"}";
URL realUrl = new URL(url);
// 设置通用请求的属性
URLConnection conn = realUrl.openConnection();
conn.setRequestProperty("accept", "*/*");
conn.setRequestProperty("connection", "keep-alive");
conn.setRequestProperty("Content-Type", "application/json");
conn.setRequestProperty("user-agent", "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;SV1)");
conn.setRequestProperty("method", "post");
// 发送POST请求必须设置如下两行
conn.setDoOutput(true);
conn.setDoInput(true);
PrintWriter pw = new PrintWriter(conn.getOutputStream());
// 发送请求参数
pw.print(body);
// flush输出流的缓冲
pw.flush();
// 定义BufferedReader输入流来读取URL的响应
BufferedReader bufReader = new BufferedReader(new InputStreamReader(conn.getInputStream()));
// 定义BufferedReader输入流来读取URL的响应
String line;
while ((line = bufReader.readLine()) != null) {
    result += line;
}
//返回的是json字符串
return result;

```

C#(.NET):

```

//请求路径
string url = "http://cloud.assetscontrols.com:8092/OpenApi/login";
//请求参数 ,json格式参数, 建议用对象传入
string body = "{UserName:\"admin\", FPassword:\"E10ADC3949BA59ABBE56E057F20F883E\"}";
Encoding encoding = Encoding.UTF8;
HttpWebRequest request = (HttpWebRequest)WebRequest.Create(url);
//请求方式 post / get
request.Method = "post";
request.Accept = "*/*";
request.ContentType = "application/json";
request.UserAgent = "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)";

```

```
byte[] buffer = encoding.GetBytes(body);
request.ContentLength = buffer.Length;
request.GetRequestStream().Write(buffer, 0, buffer.Length);
HttpWebResponse response = (HttpWebResponse)request.GetResponse();
using (StreamReader reader = new StreamReader(response.GetResponseStream(),
    Encoding.UTF8))
{
    //返回的是json字符串
    return reader.ReadToEnd();
}
```

Python :

```
url = 'http://cloud.assetscontrols.com:8092/OpenApi/login'
data = {
    'FUserName': 'admin',
    'FPassword': 'E10ADC3949BA59ABBE56E057F20F883E'
}
data = parse.urlencode(data).encode('utf-8')
headers = {
    'User-Agent': r'Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) '
                r'Chrome/45.0.2454.85 Safari/537.36 115Browser/6.0.3',
    'Connection': 'keep-alive'
}
req = request.Request(url, headers=headers, data=data)
page = request.urlopen(req).read()
page = page.decode('utf-8')
return page;
```

新增查询参数

简要描述：

- 新增查询参数

接口版本：

版本号	制定人	制定日期	修订日期
2.0.0	lenny	2022-06-20	

请求URL：

- 测试环境地址：<http://120.25.245.20:8092/OpenApi/YouPei>
- 生产环境地址：<http://cloud.assetscontrols.com:8092/OpenApi/YouPei>

请求方式：

- POST

请求头：

参数名	是否必须	类型	说明
Content-Type	是	string	请求类型： application/json

请求参数：

参数名	是否必须	类型	说明
FTokenID	是	string	令牌ID
FAction	是	string	方法名 (AddPostParams)
FDateTime	是	dateTime	有效时间（UTC时间）
			查询参数（Json字符串），参数说明: FAssetID: 设备号；

FParameters	是	string	<p>FStartTime: 查询开始时间（UTC时间）；FEndTime: 查询结束时间（UTC时间）;FSONo:提单号;FDepLatLong:开始经纬度;FStartAddress:开始地址;FDesLatLong:目的地经纬度;FDepLabel:目的地地名;实时监控，如果是空字符串，则查询所有；实时监控对象为FAssetID列表，例如：[{"FAssetID":"709555544444", FSONo:"20220624"}, {"FAssetID":"776210509963", FSONo:"20220625"}, {"FAssetID":"82039200023", FSONo:"20220624"}]；实时监控有举例："-1" 轨迹回放对象举例：</p> <p>[{"FAssetID":"776210509941","FStartTime":"2022-06-23 00:09:52","FEndTime":"2022-06-24 00:09:52","FDepLatLong": "22.456123,113.456128","FDepLabel": "海","FDesLatLong": "-22.456123,113.456128","FDesLabel": "FSONo:"20220625"}, {"FAssetID":"776210509942","FStartTime":"2022-06-23 00:09:52","FEndTime":"2022-06-24 00:09:52","FDepLatLong": "22.456123,113.456128","FDepLabel": "海","FDesLatLong": "-22.456123,113.456128","FDesLabel": "FSONo:"20220625"}]</p>
-------------	---	--------	--

返回示例:

正确时返回:

```
{
  "Result": 200,
  "Message": "check token success",
  "FObject": {
    "FKey": "ec2b1b2a-21af-4975-9b1d-fc56c03696dd"
  }
}
```

错误时返回:

```
{
  "Result": 102,
  "Message": "Action is error",
  "FObject": []
}
```

返回参数说明:

参数名	类型	说明
-----	----	----

FKey	String	参数唯一标识
------	--------	--------

备注:

- 更多返回错误代码如下:
- 104: token错误或过期
- 105: 系统异常
- 102: 请求参数错误

请求示例:

Java:

```
String result = "";
//请求路径
String url = "http://cloud.assetscontrols.com:8092/OpenApi/YouPei";
//请求参数 ,json格式参数,建议用对象传入
String body = "{FAction:\"AddPostParams\",FTokenID:\"3acef045-d302-4032-b40a-d9ee6c1519cd\",FParameters:{\"FAssetID\":\"709555544444,709555544443,709555544442\"}}";
URL realUrl = new URL(url);
// 设置通用请求的属性
URLConnection conn = realUrl.openConnection();
conn.setRequestProperty("accept", "*/*");
conn.setRequestProperty("connection", "keep-alive");
conn.setRequestProperty("Content-Type", "application/json");
conn.setRequestProperty("user-agent", "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;SV1)");
conn.setRequestProperty("method", "post");
// 发送POST请求必须设置如下两行
conn.setDoOutput(true);
conn.setDoInput(true);
PrintWriter pw = new PrintWriter(conn.getOutputStream());
// 发送请求参数
pw.print(body);
// flush输出流的缓冲
pw.flush();
// 定义BufferedReader输入流来读取URL的响应
BufferedReader bufReader = new BufferedReader(new InputStreamReader(conn.getInputStream()));
// 定义BufferedReader输入流来读取URL的响应
String line;
while ((line = bufReader.readLine()) != null) {
    result += line;
}
```

```
//返回的是json字符串
return result;
```

C# :

```
//请求路径
string url = "http://cloud.assetscontrols.com:8092/OpenApi/YouPei";
//请求参数 ,json格式参数,建议用对象传入
string body = "{FAction:\"AddPostParams\",FTokenID:\"3acef045-d302-4032-b40a-d9ee6c1519cd\",FParameters:{\"FAssetID\": \"709555544444,709555544443,709555544442\"}}";
Encoding encoding = Encoding.UTF8;
HttpWebRequest request = (HttpWebRequest)WebRequest.Create(url);
//请求方式 post / get
request.Method = "post";
request.Accept = "*/*";
request.ContentType = "application/json";
request.UserAgent = "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)";
byte[] buffer = encoding.GetBytes(body);
request.ContentLength = buffer.Length;
request.GetRequestStream().Write(buffer, 0, buffer.Length);
HttpWebResponse response = (HttpWebResponse)request.GetResponse();
using (StreamReader reader = new StreamReader(response.GetResponseStream(),
    Encoding.UTF8))
{
    //返回的是json字符串
    return reader.ReadToEnd();
}
```

Python :

```
url = 'http://cloud.assetscontrols.com:8092/OpenApi/YouPei'
data = {
    'FAction': 'AddPostParams',
    'FTokenID': '3acef045-d302-4032-b40a-d9ee6c1519cd'
    'FParameters': '{"FAssetID": "709555544444,709555544443,709555544442"}'
}
data = parse.urlencode(data).encode('utf-8')
headers = {
    'User-Agent': r'Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) '
    r'Chrome/45.0.2454.85 Safari/537.36 115Browser/6.0.3',
    'Connection': 'keep-alive'
}
```

```
req = request.Request(url, headers=headers, data=data)
page = request.urlopen(req).read()
page = page.decode('utf-8')
# json_array = json.loads(page)
return page;
```

箱号与设备绑定

简要描述：

- 箱号与设备绑定

接口版本：

版本号	制定人	制定日期	修订日期
2.0.0	lenny	2022-06-20	

请求URL：

- 测试环境地址：<http://120.25.245.20:8092/OpenApi/YouPei>
- 生产环境地址：<http://cloud.assetscontrols.com:8092/OpenApi/YouPei>

请求方式：

- POST

请求头：

参数名	是否必须	类型	说明
Content-Type	是	string	请求类型： application/json

请求参数：

参数名	是否必须	类型	说明
FTokenID	是	string	令牌ID
FAction	是	string	方法名 (UpdateAssetBindContainer)
			设备绑定信息，参数例举 [{ FAssetID: "709555544444", FVehicleName: "548789115", FSONo:"20220624", FCompanyName:"久通科技",

ListAssetBindingInfo	是	对象	FCTName:"柜型",{ FAssetID: "709555544443", FVehicleName: "9133", FSONo:"20220508", FCompanyName:"久通科技", FCTName:"柜型"},{ FAssetID: "709555544343", FVehicleName: "9133", FSONo:"20220508", FCompanyName:"久通科技", FCTName:"柜型"}]
----------------------	---	----	---

PostMan请求示例

POST

http://120.25.245.20:8092//OpenApi/YouPei

Params

Authorization

Headers (8)

Body

Pre-request Script

Tests

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

1

{

2

FAction: "UpdateAssetBindContainer",

3

FTokenID: "4883da5f-39dd-4260-b58f-e897a1b5f109",

4

ListAssetBindingInfo:[{

5

FAssetID: "709555544444",

6

FVehicleName: "548789115",

7

FSONo:"20220624"

8

},

9

{

10

FAssetID: "709555544443",

11

FVehicleName: "9133",

12

FSONo:"20220508"

13

},

14

{

15

FAssetID: "709555544343",

16

FVehicleName: "9133",

17

FSONo:"20220508"

18

}]

19

}

Body

Cookies

Headers (12)

Test Results

Pretty

Raw

Preview

Visualize

JSON

1

{

2

"Result": 200,

3

"Message": "check token success",

4

"FObject": [

5

{

6

"FAssetID": "709555544444",

返回示例:

正确时返回:

```
{
```

```
"Result": 200,
"Message": "check token success",
"FObject": [
  {
    "FAssetID": "709555544444",
    "FResult": {
      "Result": 200,
      "Message": "success",
      "FObject": null
    }
  },
  {
    "FAssetID": "709555544443",
    "FResult": {
      "Result": 200,
      "Message": "success",
      "FObject": null
    }
  },
  {
    "FAssetID": "709555544343",
    "FResult": {
      "Result": 112,
      "Message": "without this assetid",
      "FObject": null
    }
  }
]
```

错误时返回:

```
{
  "Result": 102,
  "Message": "Action is error",
  "FObject": []
}
```

返回参数说明:

参数名	类型	说明
-----	----	----

备注:

- 更多返回错误代码如下：
- 104: token错误或过期
- 105: 系统异常
- 102: 请求参数错误
- 112: 无此设备

请求示例:

Java:

```
String result = "";
//请求路径
String url = "http://cloud.assetscontrols.com:8092/OpenApi/YouPei";
//请求参数 ,json格式参数, 建议用对象传入
String body = "{FAction:\"UpdateAssetBindContainer\",FTokenID:\"3acef045-d302-4032-b40a-d9ee6c1519cd\"}";
URL realUrl = new URL(url);
// 设置通用请求的属性
URLConnection conn = realUrl.openConnection();
conn.setRequestProperty("accept", "*/*");
conn.setRequestProperty("connection", "keep-alive");
conn.setRequestProperty("Content-Type", "application/json");
conn.setRequestProperty("user-agent", "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;SV1)");
conn.setRequestProperty("method", "post");
// 发送POST请求必须设置如下两行
conn.setDoOutput(true);
conn.setDoInput(true);
PrintWriter pw = new PrintWriter(conn.getOutputStream());
// 发送请求参数
pw.print(body);
// flush输出流的缓冲
pw.flush();
// 定义BufferedReader输入流来读取URL的响应
BufferedReader bufReader = new BufferedReader(new InputStreamReader(conn.getInputStream()));
// 定义BufferedReader输入流来读取URL的响应
String line;
while ((line = bufReader.readLine()) != null) {
    result += line;
}
//返回的是json字符串
return result;
```

C# :

```

//请求路径
string url = "http://cloud.assetscontrols.com:8092/OpenApi/YouPei";
//请求参数 ,json格式参数, 建议用对象传入
string body = "{FAction:\"UpdateAssetBindContainer\",FTokenID:\"3acef045-d302-4032-b40a-d9ee6c1519cd\"}";
Encoding encoding = Encoding.UTF8;
HttpWebRequest request = (HttpWebRequest)WebRequest.Create(url);
//请求方式 post / get
request.Method = "post";
request.Accept = "*/*";
request.ContentType = "application/json";
request.UserAgent = "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)";
byte[] buffer = encoding.GetBytes(body);
request.ContentLength = buffer.Length;
request.GetRequestStream().Write(buffer, 0, buffer.Length);
HttpWebResponse response = (HttpWebResponse)request.GetResponse();
using (StreamReader reader = new StreamReader(response.GetResponseStream(),
    Encoding.UTF8))
{
    //返回的是json字符串
    return reader.ReadToEnd();
}

```

Python :

```

url = 'http://cloud.assetscontrols.com:8092/OpenApi/YouPei'
data = {
    'FAction': 'UpdateAssetBindContainer',
    'FTokenID': '3acef045-d302-4032-b40a-d9ee6c1519cd'
}
data = parse.urlencode(data).encode('utf-8')
headers = {
    'User-Agent': r'Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) '
    r'Chrome/45.0.2454.85 Safari/537.36 115Browser/6.0.3',
    'Connection': 'keep-alive'
}
req = request.Request(url, headers=headers, data=data)
page = request.urlopen(req).read()
page = page.decode('utf-8')
# json_array = json.loads(page)
return page;

```


实时监控

简要描述：

- 按Key查询轨迹信息

接口版本：

版本号	制定人	制定日期	修订日期
2.0.0	lenny	2022-06-30	

请求URL：

- 测试环境地址：<http://120.25.245.20:8092/OpenApi/YouPei>
- 生产环境地址：<http://cloud.assetscontrols.com:8092/OpenApi/YouPei>

请求方式：

- POST

请求头：

参数名	是否必须	类型	说明
Content-Type	是	string	请求类型： application/json

请求参数：

参数名	是否必须	类型	说明
FTokenID	是	string	令牌ID
FAction	是	string	方法名 (UpdateAssetBindContainer)
FKey	是	string	Post参数唯一标识

PostMan请求示例

POST http://120.25.245.20:8092//OpenApi/YouPei

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL **JSON**

```

1  {
2    FAction: "UpdateAssetBindContainer",
3    FTokenID: "4883da5f-39dd-4260-b58f-e897a1b5f109",
4    ListAssetBindingInfo: [{
5      FAssetID: "709555544444",
6      FVehicleName: "548789115",
7      FSONo: "20220624"
8    },
9    {
10     FAssetID: "709555544443",
11     FVehicleName: "9133",
12     FSONo: "20220508"
13   },
14   {
15     FAssetID: "709555544343",
16     FVehicleName: "9133",
17     FSONo: "20220508"
18   }
19 ]

```

Body Cookies Headers (12) Test Results

Pretty Raw Preview Visualize JSON

```

1  {
2    "Result": 200,
3    "Message": "check token success",
4    "FObject": [
5      {
6        "FAssetID": "709555544444",

```

返回示例:

正确时返回:

```

{
  "Result": 200,
  "Message": "check token success",
  "FObject": {
    "ListMonitor": [
      {
        "ID": "709555544444",
        "Lon": 113.448120117188,
        "Lat": 23.181583404541,
        "Speed": 0,
        "Dir": 0,

```

```

    "Mil": 0,
    "GT": "2022-06-28T02:10:03Z",
    "RT": "2022-06-28T07:04:04.655Z",
    "LType": 3,
    "Lock": {
      "CS": 21,
      "GS": 0,
      "MNC": 0,
      "MCC": 460,
      "LAC": 9475,
      "CID": 48646,
      "Bat": 94,
      "LR": 0,
      "LS": 0,
      "Temp": "",
      "Hum": "",
      "BB": null,
      "RS": 0,
      "Volt": 3.3
    },
    "Vehicle": null,
    "Locator": null,
    "Goods": null,
    "Bucket": null
  },
  {
    "ID": "776210509963",
    "Lon": 113.448120117188,
    "Lat": 23.181583404541,
    "Speed": 0,
    "Dir": 0,
    "Mil": 0,
    "GT": "2022-06-28T02:03:11Z",
    "RT": "2022-06-28T06:59:19.121Z",
    "LType": 3,
    "Lock": {
      "CS": 24,
      "GS": 0,
      "MNC": 0,
      "MCC": 460,
      "LAC": 9475,
      "CID": 48646,
      "Bat": 94,
      "LR": 0,
      "LS": 0,
      "Temp": "25.0°C",

```

```

        "Hum": "",
        "BB": null,
        "RS": 0,
        "Volt": 3.2
    },
    "Vehicle": null,
    "Locator": null,
    "Goods": null,
    "Bucket": null
}
],
"ListAssetTree": [
    {
        "FGUID": "86617683-92f6-40a7-a471-79979b186a30",
        "FGUID2": "b740c8d4-1fa2-4fe1-897c-306cda25267b",
        "FChild": null,
        "FName": "548789115",
        "SName": "70955544444[548789115]",
        "FNTType": 2,
        "AGUID": "0496accc-9604-4340-9190-c48bb280dd82",
        "AName": "优配测试",
        "GName": null,
        "FACount": 0,
        "FVCount": 0,
        "TD": 0,
        "FCID": "",
        "FCar": {
            "GUID": "b740c8d4-1fa2-4fe1-897c-306cda25267b",
            "ID": "70955544444",
            "Type": "1709",
            "Cfy": "1",
            "Ble": 1,
            "TName": "JT709A",
            "Video": 0,
            "Fuel": 0,
            "SubAsset": 0,
            "Temp": 0,
            "Fence": "0",
            "VIT": "0"
        },
        "FSOno": "20220624"
    },
    {
        "FGUID": "66da8a50-f9a6-43fb-a6ba-b1d606c590b0",
        "FGUID2": "3159cd2b-8f06-475c-ae7e-d3b7bac5d6d4",
        "FChild": null,

```

```
      "FName": "776210509963",
      "SName": "776210509963[776210509963]",
      "FNTType": 2,
      "AGUID": "0496accc-9604-4340-9190-c48bb280dd82",
      "AName": "优配测试",
      "GName": null,
      "FACount": 0,
      "FVCount": 0,
      "TD": 0,
      "FCID": "",
      "FCar": {
        "GUID": "3159cd2b-8f06-475c-ae7e-d3b7bac5d6d4",
        "ID": "776210509963",
        "Type": "2707",
        "Cfy": "8",
        "Ble": 0,
        "TName": "JT707C",
        "Video": 0,
        "Fuel": 0,
        "SubAsset": 0,
        "Temp": 0,
        "Fence": "0",
        "VIT": "0"
      },
      "FSOno": "78945643"
    }
  ]
}
```

错误时返回:

```
{
  "Result": 102,
  "Message": "Action is error",
  "FObject": []
}
```

返回参数说明:

参数名	类型	说明
		[{ "ID": 设备号, "Lon": 经度, "Lat": 纬度, "Speed": 速度, "Dir": 方

ListMonitor	对象	向,"Mil": 里程,"GT": 定位时间（UTC时间，转成北京时间需要+8小时），"RT": 数据接收时间（UTC时间，转成北京时间需要+8小时），"LType": 定位类型 1:卫星定位 2:基站定位 3:小区码定位 4:手机定位 0: 不定位,"Lock": { "CS": 网络信息, "GS": 0, "MNC": 0, "MCC": 460, "LAC": 9475, "CID": 48646, "Bat": 94, "LR": 0, "LS": 0, "Temp": "", "Hum": "", "BB": null, "RS": 0, "Volt": 3.3 }, "Vehicle": null, "Locator": null, "Goods": null, "Bucket": null }, ...]
ListAssetTree	对象	[{ "FGUID": "86617683-92f6-40a7-a471-79979b186a30", "FGUID2": "b740c8d4-1fa2-4fe1-897c-306cda25267b", "FChild": null, "FName": "548789115", "SName": "709555544444[548789115]", "FNTType": 2, "AGUID": "0496accc-9604-4340-9190-c48bb280dd82", "AName": "优配测试", "GName": null, "FACount": 0, "FVCount": 0, "TD": 0, "FCID": "", "FCar": { "GUID": "b740c8d4-1fa2-4fe1-897c-306cda25267b", "ID": "709555544444", "Type": "1709", "Cfy": "1", "Ble": 1, "TName": "JT709A", "Video": 0, "Fuel": 0, "SubAsset": 0, "Temp": 0, "Fence": "0", "VIT": "0" }, "FSONo": "20220624" },...]

备注:

- 更多返回错误代码如下：
- 104：token错误或过期
- 105：系统异常
- 102：请求参数错误
- 112：无此设备

请求示例:

Java:

```
String result = "";
//请求路径
String url = "http://cloud.assetscontrols.com:8092/OpenApi/YouPei";
//请求参数 ,json格式参数, 建议用对象传入
String body = "{FAction: \"QueryLBSMonitorListByFKey\", FTokenID: \"3acef045-d302-4032-b40a-d9ee6c1519cd\", FKey: \"50E74534-4071-4075-AC9D-2DFF86DA37EA\"}";
URL realUrl = new URL(url);
// 设置通用请求的属性
URLConnection conn = realUrl.openConnection();
conn.setRequestProperty("accept", "/*/*");
conn.setRequestProperty("connection", "keep-alive");
conn.setRequestProperty("Content-Type", "application/json");
conn.setRequestProperty("user-agent", "Mozilla/4.0 (compatible; MSIE 6.0; W
```

```

indows NT 5.1;SV1)");
conn.setRequestProperty("method", "post");
// 发送POST请求必须设置如下两行
conn.setDoOutput(true);
conn.setDoInput(true);
PrintWriter pw = new PrintWriter(conn.getOutputStream());
// 发送请求参数
pw.print(body);
// flush输出流的缓冲
pw.flush();
// 定义BufferedReader输入流来读取URL的响应
BufferedReader bufReader = new BufferedReader(new InputStreamReader(conn.get
InputStream()));
// 定义BufferedReader输入流来读取URL的响应
String line;
while ((line = bufReader.readLine()) != null) {
    result += line;
}
//返回的是json字符串
return result;

```

C# :

```

//请求路径
string url = "http://cloud.assetscontrols.com:8092/OpenApi/YouPei";
//请求参数 ,json格式参数, 建议用对象传入
string body = "{FAction:\"UpdateAssetBindContainer\",FTokenID:\"3acef045-d3
02-4032-b40a-d9ee6c1519cd\",FKey:\"50E74534-4071-4075-AC9D-2DFF86DA37EA\"}";
;
Encoding encoding = Encoding.UTF8;
HttpWebRequest request = (HttpWebRequest)WebRequest.Create(url);
//请求方式 post / get
request.Method = "post";
request.Accept = "*/*";
request.ContentType = "application/json";
request.UserAgent = "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)";
byte[] buffer = encoding.GetBytes(body);
request.ContentLength = buffer.Length;
request.GetRequestStream().Write(buffer, 0, buffer.Length);
HttpWebResponse response = (HttpWebResponse)request.GetResponse();
using (StreamReader reader = new StreamReader(response.GetResponseStream(),
Encoding.UTF8))
{
    //返回的是json字符串
    return reader.ReadToEnd();
}

```



```
}
```

Python :

```
url = 'http://cloud.assetscontrols.com:8092/OpenApi/YouPei'
data = {
    'FAction': 'UpdateAssetBindContainer',
    'FTokenID': '3acef045-d302-4032-b40a-d9ee6c1519cd'
    'FKey': '50E74534-4071-4075-AC9D-2DFF86DA37EA'
}
data = parse.urlencode(data).encode('utf-8')
headers = {
    'User-Agent': r'Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) '
                r'Chrome/45.0.2454.85 Safari/537.36 115Browser/6.0.3',
    'Connection': 'keep-alive'
}
req = request.Request(url, headers=headers, data=data)
page = request.urlopen(req).read()
page = page.decode('utf-8')
# json_array = json.loads(page)
return page;
```