IOT 应用内接口

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1.说明

1.1 会话参数

 应 用 内 接 口 调 用 时 ， 必 须 传 递 session 字 段 "session":{"sessionId":" 会 话 ID","equipmentTypeId":"频道 ID"}

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST
接口格式	{"action":"equipmentType","method":"list", "session":{"sessionId":" 会 话

	ID","equipmentTypeId":"频道 ID"}}

接口参数			
参数名称	类型	是否必须	说明
sessionId	String	true	会话 ID
equipmentTypeId	String	true	频道 ID

返回结果
{

2 管理频道

2.1 获取频道

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明

请求示例
{"action":"equipmentType","method":"list","session":{"sessionId":"79eaa27d3c9148249260c4110f14b75a","equipmentTypeId":"1"}}

返回结果

{
    "errcode": "0",
    "errmsg": "拉取成功",
    "values": [

```
        {
                "id": 1,
                "name": "楼宇消防",
                "icopath": "/resources/images/1.png"
        },
        {
                "id": 2,
                "name": "智能抄表",
                "icopath": "/resources/images/2.png"
        },
        {
                "id": 3,
                "name": "智能家居",
                "icopath": "/resources/images/3.png"
        }
    ]
}
```

3 设备管理

3.1 设备列表

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST
接口参数			
参数名称	类型	是否必须	说明
name	string	False	名称
state	Int	False	状态 0:未连接，1：已连接
isDel	Int	False	是否删除：1：已删除
请求示例			
{"action":"equipment","method":"list","session":{"sessionId":"79eaa27d3c91482492 60c4110f14b75a","equipmentTypeId":"1"},"param":{"pageNumber":"1","pageSize":"20" }}			
返回结果			

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3.2 添加设备

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST

<div align="center">

接口参数

</div>

参数名称	类型	是否必须	说明
name	String	true	名称
equipmentProtocol	String	true	设备协议 MQTT, TCP, MB RTU, MB TCP
duration	Int	true	上报周期
share	Int	true	是否开放 0:否，1：是
devicePosition	String	true	设备地理位置
devicePositionLng	String	true	设备经度
devicePositionLat	String	true	设备纬度
equipmentIcoId	Long	true	设备图片 ID

<div align="center">

请求示例

</div>

```
{"action":"equipment","method":"save","session":{"sessionId":"79eaa27d3c9148249260c4110f14b75a","equipmentTypeId":"1"},"param":{"name":"消防类","equipmentProtocol":"TCP","duration":"60","share":"0","devicePosition":"江苏无锡新区哥伦布广场","devicePositionLng":"120.337229","devicePositionLat":"31.567536","equipmentIcoId":"1","equipmentSensors":[{"name":"水表 1","type":"1","sign":"0","unit":"吨","equipmentIcoId":"1"}]}}
```

<div align="center">

返回结果

</div>

```
{"errcode":"0","errmsg":"添加设备成功!"}
```

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3.3 修改设备

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp		
提交方式	GET/POST		
<td colspan="4" align="center">**接口参数**</td>			
参数名称	类型	是否必须	说明
equipmentId	Long	True	设备 ID（由 3.1 获得）
name	String	false	名称
equipmentProtocol	String	false	设备协议 MQTT, TCP, MB RTU, MB TCP
duration	Int	false	上报周期
share	Int	false	是否开放 0:否，1：是
devicePosition	String	false	设备地理位置
devicePositionLng	String	false	设备经度
devicePositionLat	String	false	设备纬度
equipmentIcoId	Long	false	设备图片 ID
<td colspan="4" align="center">请求示例</td>			
<td colspan="4">{"action":"equipment","method":"update","session":{"sessionId":"79eaa27d3c9148249260c4110f14b75a","equipmentTypeId":"1"},"param":{"equipmentId":"1","name":"消防类","equipmentSensors":[{"name":"水表 1","type":"1","sign":"0","unit":"吨","equipmentIcoId":"1"}]}}</td>			
<td colspan="4" align="center">返回结果</td>			
<td colspan="4">{"errcode":"0","errmsg":"更新设备成功!"}</td>			

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3.4 删除设备

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明
equipmentId	Long	True	设备 ID（由 3.1 获得）

请求示例
{″action″:″equipment″,″method″:″delete″,″session″:{″sessionId″:″79eaa27d3c9148249260c4110f14b75a″,″equipmentTypeId″:″1″},″param″:{″equipmentId″:″1″}}

返回结果
{"errcode":"0","errmsg":"删除设备成功!"}

3.5 根据 ID 获取设备

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明

请求示例
{″action″:″equipment″,″method″:″getEquipmentById″,″session″:{″sessionId″:″79eaa27d3c9148249260c4110f14b75a″,″equipmentTypeId″:″1″},″param″:{″equipmentId″:″1″}}

返回结果

{
    "errcode": "0",
    "errmsg": "获取设备成功",
    "value": {
        "id": 1,

```
            "name": "消防类",
            "idNumber": "1503567954282",
            "serialNumber": "43a27015a42a4544bcfeab4ebba28bfd",
            "equipmentProtocol": "TCP",
            "duration": 60,
            "share": 0,
            "devicePosition": "消防类测试",
            "devicePositionLng": "120.337229",
            "devicePositionLat": "31.567536",
            "equipmentIco": "/resources/images/1.png",
            "equipmentIp": "192.168.1.103",
            "equipmentPort": "23456",
            "equipmentTypeId": 1,
            "equipmentSensors": [
                {
                        "id": 1,
                        "idNumber": "0af1e7c1c3c74b6e926349d141162953",
                        "name": "传感器 1",
                        "type": 1,
                        "sign": 0,
                        "unit": "吨",
                        "equipmentIcoId": 1,
                        "equipmentIcoPath": "/resources/images/1.png",
                        "equipmentId": 1,
                        "equipment": "消防类"
                }
            ]
        }
}
```

4.图标管理

4.1 添加图标

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST
接口参数	

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参数名称	类型	是否必须	说明
name	String	false	名称
icoPath	String	True	图标路径
icoType	String	false	图标类型 device//设备,(默认) sensor//传感器
请求示例			
{"action":"equipmentIco","method":"save","session":{"sessionId":"79eaa27d3c91482 49260c4110f14b75a","equipmentTypeId":"1"},"param":{"name":"图标 1","icoPath":"/upload/file/201708/sdfsdfsfsdfsdsdf.png","icoType":"device"}}			
返回结果			
{"errcode":"0","errmsg":"添加图标成功!"}			

4.2 修改图标

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST
接口参数	
参数名称	类型	是否必须	说明
icoPath	String	false	图标路径
请求示例			
{"action":"equipmentIco","method":"update","session":{"sessionId":"79eaa27d3c914 8249260c4110f14b75a","equipmentTypeId":"1"},"param":{"icoPath":"/upload/file/201 708/sdfsdfsfsdfsdsdf.png"}}			
返回结果			
{"errcode":"0","errmsg":"修改图标成功!"}			

4.3 删除图标

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明
icoPath	String	false	图标路径

请求示例
{"action":"equipmentIco","method":"delete","session":{"sessionId":"79eaa27d3c9148249260c4110f14b75a","equipmentTypeId":"1"},"param":{"equipmentIcoId":"1"}}

返回结果
{"errcode":"0","errmsg":"删除图标成功!"}

4.4 获取图标

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明
icoType	String	true	类型:device, // 设备 sensor// 传感器

请求示例
{"action":"equipmentIco","method":"list","session":{"sessionId":"79eaa27d3c914824 9260c4110f14b75a","equipmentTypeId":"1"},"param":{"icoType":"device"}}

返回结果

{
    "errcode": "0",
    "errmsg": "查询成功!",
    "values": [

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```
        {
                "id": 1,
                "name": "1",
                "icoPath": "/resources/equipment/non_online-1.png",
                "icoType": "device",
                "icoOnlinePath": "/resources/equipment/on_online-1.png"
        },
        {

                "id": 2,
                "name": "2",
                "icoPath": "/resources/equipment/non_online-2.png",
                "icoType": "device",
                "icoOnlinePath": "/resources/equipment/on_online-2.png"
        },
        {

                "id": 3,
                "name": "3",
                "icoPath": "/resources/equipment/non_online-3.png",
                "icoType": "device",
                "icoOnlinePath": "/resources/equipment/on_online-3.png"
        },
        {

                "id": 4,
                "name": "4",
                "icoPath": "/resources/equipment/non_online-4.png",
                "icoType": "device",
                "icoOnlinePath": "/resources/equipment/on_online-4.png"
        },
        {

                "id": 5,
                "name": "5",
                "icoPath": "/resources/equipment/non_online-5.png",
                "icoType": "device",
                "icoOnlinePath": "/resources/equipment/on_online-5.png"
        },
        {

                "id": 6,
                "name": "6",
                "icoPath": "/resources/equipment/non_online-6.png",
                "icoType": "device",
                "icoOnlinePath": "/resources/equipment/on_online-6.png"
        },
        {
                "id": 7,
```

```
        "name": "7",
        "icoPath": "/resources/equipment/non_online-7.png",
        "icoType": "device",
        "icoOnlinePath": "/resources/equipment/on_online-7.png"
    },
    {

        "id": 8,
        "name": "8",
        "icoPath": "/resources/equipment/non_online-8.png",
        "icoType": "device",
        "icoOnlinePath": "/resources/equipment/on_online-8.png"
    },
    {

        "id": 9,
        "name": "9",
        "icoPath": "/resources/equipment/non_online-9.png",
        "icoType": "device",
        "icoOnlinePath": "/resources/equipment/on_online-9.png"
    },
    {

        "id": 10,
        "name": "10",
        "icoPath": "/resources/equipment/non_online-10.png",
        "icoType": "device",
        "icoOnlinePath": "/resources/equipment/on_online-10.png"
    },
    {

        "id": 11,
        "name": "11",
        "icoPath": "/resources/equipment/non_online-11.png",
        "icoType": "device",
        "icoOnlinePath": "/resources/equipment/on_online-11.png"
    },
    {

        "id": 12,
        "name": "12",
        "icoPath": "/resources/equipment/non_online-12.png",
        "icoType": "device",
        "icoOnlinePath": "/resources/equipment/on_online-12.png"
    },
    {

        "id": 13,
        "name": "13",
        "icoPath": "/resources/equipment/non_online-13.png",
```

```json
            "icoType": "device",
            "icoOnlinePath": "/resources/equipment/on_online-13.png"
        },
        {

            "id": 14,
            "name": "14",
            "icoPath": "/resources/equipment/non_online-14.png",
            "icoType": "device",
            "icoOnlinePath": "/resources/equipment/on_online-14.png"
        },
        {

            "id": 15,
            "name": "15",
            "icoPath": "/resources/equipment/non_online-15.png",
            "icoType": "device",
            "icoOnlinePath": "/resources/equipment/on_online-15.png"
        },
        {

            "id": 16,
            "name": "16",
            "icoPath": "/resources/equipment/non_online-16.png",
            "icoType": "device",
            "icoOnlinePath": "/resources/equipment/on_online-16.png"
        },
        {

            "id": 17,
            "name": "17",
            "icoPath": "/resources/equipment/non_online-17.png",
            "icoType": "device",
            "icoOnlinePath": "/resources/equipment/on_online-17.png"
        },
        {

            "id": 18,
            "name": "18",
            "icoPath": "/resources/equipment/non_online-18.png",
            "icoType": "device",
            "icoOnlinePath": "/resources/equipment/on_online-18.png"
        },
        {

            "id": 19,
            "name": "19",
            "icoPath": "/resources/equipment/non_online-19.png",
            "icoType": "device",
            "icoOnlinePath": "/resources/equipment/on_online-19.png"
```

```json
        },
        {
            "id": 20,
            "name": "20",
            "icoPath": "/resources/equipment/non_online-20.png",
            "icoType": "device",
            "icoOnlinePath": "/resources/equipment/on_online-20.png"
        },
        {

            "id": 21,
            "name": "21",
            "icoPath": "/resources/equipment/non_online-21.png",
            "icoType": "device",
            "icoOnlinePath": "/resources/equipment/on_online-21.png"
        },
        {

            "id": 22,
            "name": "22",
            "icoPath": "/resources/equipment/non_online-22.png",
            "icoType": "device",
            "icoOnlinePath": "/resources/equipment/on_online-22.png"
        },
        {

            "id": 23,
            "name": "23",
            "icoPath": "/resources/equipment/non_online-23.png",
            "icoType": "device",
            "icoOnlinePath": "/resources/equipment/on_online-23.png"
        },
        {

            "id": 24,
            "name": "24",
            "icoPath": "/resources/equipment/non_online-24.png",
            "icoType": "device",
            "icoOnlinePath": "/resources/equipment/on_online-24.png"
        },
        {

            "id": 25,
            "name": "25",
            "icoPath": "/resources/equipment/non_online-25.png",
            "icoType": "device",
            "icoOnlinePath": "/resources/equipment/on_online-25.png"
        },
        {
```

```
        "id": 26,
        "name": "26",
        "icoPath": "/resources/equipment/non_online-26.png",
        "icoType": "device",
        "icoOnlinePath": "/resources/equipment/on_online-26.png"
    },
    {
        "id": 27,
        "name": "27",
        "icoPath": "/resources/equipment/non_online-27.png",
        "icoType": "device",
        "icoOnlinePath": "/resources/equipment/on_online-27.png"
    },
    {
        "id": 28,
        "name": "28",
        "icoPath": "/resources/equipment/non_online-28.png",
        "icoType": "device",
        "icoOnlinePath": "/resources/equipment/on_online-28.png"
    },
    {
        "id": 29,
        "name": "29",
        "icoPath": "/resources/equipment/non_online-29.png",
        "icoType": "device",
        "icoOnlinePath": "/resources/equipment/on_online-29.png"
    },
    {
        "id": 30,
        "name": "29",
        "icoPath": "/resources/equipment/non_online-30.png",
        "icoType": "device",
        "icoOnlinePath": "/resources/equipment/on_online-30.png"
    },
    {
        "id": 31,
        "name": "31",
        "icoPath": "/resources/equipment/non_online-31.png",
        "icoType": "device",
        "icoOnlinePath": "/resources/equipment/on_online-31.png"
    },
    {
        "id": 32,
        "name": "32",
```

```
                "icoPath": "/resources/equipment/non_online-32.png",
                "icoType": "device",
                "icoOnlinePath": "/resources/equipment/on_online-32.png"
            },
            {

                "id": 33,
                "name": "33",
                "icoPath": "/resources/equipment/non_online-33.png",
                "icoType": "device",
                "icoOnlinePath": "/resources/equipment/on_online-33.png"
            },
            {

                "id": 34,
                "name": "34",
                "icoPath": "/resources/equipment/non_online-34.png",
                "icoType": "device",
                "icoOnlinePath": "/resources/equipment/on_online-34.png"
            },
            {

                "id": 35,
                "name": "35",
                "icoPath": "/resources/equipment/non_online-35.png",
                "icoType": "device",
                "icoOnlinePath": "/resources/equipment/on_online-35.png"
            },
            {

                "id": 36,
                "name": "36",
                "icoPath": "/resources/equipment/non_online-36.png",
                "icoType": "device",
                "icoOnlinePath": "/resources/equipment/on_online-36.png"
            },
            {

                "id": 37,
                "name": "37",
                "icoPath": "/resources/equipment/non_online-37.png",
                "icoType": "device",
                "icoOnlinePath": "/resources/equipment/on_online-37.png"
            },
            {

                "id": 38,
                "name": "38",
                "icoPath": "/resources/equipment/non_online-38.png",
                "icoType": "device",
```

```
            "icoOnlinePath": "/resources/equipment/on_online-38.png"
        },
        {

            "id": 39,
            "name": "39",
            "icoPath": "/resources/equipment/non_online-39.png",
            "icoType": "device",
            "icoOnlinePath": "/resources/equipment/on_online-39.png"
        },
        {

            "id": 40,
            "name": "40",
            "icoPath": "/resources/equipment/non_online-40.png",
            "icoType": "device",
            "icoOnlinePath": "/resources/equipment/on_online-40.png"
        },
        {

            "id": 41,
            "name": "41",
            "icoPath": "/resources/equipment/non_online-41.png",
            "icoType": "device",
            "icoOnlinePath": "/resources/equipment/on_online-41.png"
        },
        {

            "id": 42,
            "name": "42",
            "icoPath": "/resources/equipment/non_online-42.png",
            "icoType": "device",
            "icoOnlinePath": "/resources/equipment/on_online-42.png"
        },
        {

            "id": 43,
            "name": "43",
            "icoPath": "/resources/equipment/non_online-43.png",
            "icoType": "device",
            "icoOnlinePath": "/resources/equipment/on_online-43.png"
        },
        {

            "id": 44,
            "name": "44",
            "icoPath": "/resources/equipment/non_online-44.png",
            "icoType": "device",
            "icoOnlinePath": "/resources/equipment/on_online-44.png"
        },
```

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```json
        {
                "id": 45,
                "name": "45",
                "icoPath": "/resources/equipment/non_online-45.png",
                "icoType": "device",
                "icoOnlinePath": "/resources/equipment/on_online-45.png"
        },
        {

                "id": 46,
                "name": "46",
                "icoPath": "/resources/equipment/non_online-46.png",
                "icoType": "device",
                "icoOnlinePath": "/resources/equipment/on_online-46.png"
        },
        {

                "id": 47,
                "name": "47",
                "icoPath": "/resources/equipment/non_online-47.png",
                "icoType": "device",
                "icoOnlinePath": "/resources/equipment/on_online-47.png"
        },
        {

                "id": 48,
                "name": "48",
                "icoPath": "/resources/equipment/non_online-48.png",
                "icoType": "device",
                "icoOnlinePath": "/resources/equipment/on_online-48.png"
        },
        {

                "id": 49,
                "name": "49",
                "icoPath": "/resources/equipment/non_online-49.png",
                "icoType": "device",
                "icoOnlinePath": "/resources/equipment/on_online-49.png"
        },
        {

                "id": 50,
                "name": "50",
                "icoPath": "/resources/equipment/non_online-50.png",
                "icoType": "device",
                "icoOnlinePath": "/resources/equipment/on_online-50.png"
        }
    ]
}
```

4.5 上传图标

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/equipmentIco/imageUpdate.jhtml		
提交方式	GET/POST		
接口参数			
参数名称	类型	是否必须	说明
file	File[]	true	文件流
session	Json	True	{"sessionId":"会话ID","equipmentTypeId":"频道 ID"}
icoType	String	True	device, // 设备 sensor// 传感器
请求示例			
返回结果			
{"errcode":"0","errmsg":"上传图标成功!"}			

5.传感器管理

5.1 添加传感器

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp		
提交方式	GET/POST		
接口参数			
参数名称	类型	是否必须	说明
name	String	true	名称
type	Int	false	类型 1：数值型(默认)，2：开关型（可操作），3:定位型,4:开关型（不可操作）

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sign	int	false	小数位数 0：0 位小数，1:1 位小数...
unit	String	true	单位
equipmentIcoId	Long	false	图标 ID,不填系统自动分配一个
equipmentId	Long	True	所属设备 ID
sensorParamId	Long	False	自定义参数 ID
请求示例			
{″action″:″equipmentSensor″,″method″:″save″,″session″:{″sessionId″:″79eaa27d3c91 48249260c4110f14b75a″,″equipmentTypeId″:″1″},″param″:{″name″:″水表 1″,″type″:″1″,″sign″:″0″,″unit″:″吨″,″equipmentIcoId″:″1″,″equipmentId″:″1″}}}			
返回结果			
{"errcode":"0","errmsg":"添传感器成功!"}			

5.2 更新传感器

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST
接口参数			
参数名称	类型	是否必须	说明
equipmentSensorId	Long	True	主键
name	String	false	名称
type	Int	false	类型 1：数值型(默认)，2：开关型（可操作）,3:定位型,4:开关型（不可操作）
sign	int	false	图标类型 device//设备,(默认) sensor//传感器
unit	String	false	单位
equipmentIcoId	Long	false	图标 ID,不填系统自动分配一个
equipmentId	Long	false	所属设备 ID

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sensorPara mId	Long	False	自定义参数 ID
请求示例			
{″action″:″equipmentSensor″,″method″:″update″,″session″:{″sessionId″:″79eaa27d3c 9148249260c4110f14b75a″,″equipmentTypeId″:″1″},″param″:{″equipmentSensorId″:″1″, ″name″:″水表 2″}}			
返回结果			

{"errcode":"0","errmsg":"更新感器成功!"}

5.3 删除传感器

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明
icoPath	String	false	图标路径
请求示例			
{″action″:″equipmentSensor″,″method″:″delete″,″session″:{″sessionId″:″79eaa27d3c 9148249260c4110f14b75a″,″equipmentTypeId″:″1″},″param″:{″equipmentSensorId″:″1″} }			
返回结果			

{"errcode":"0","errmsg":"删除传感器成功!"}

5.4 获取传感器（分页）

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST

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<div align="center">

接口参数

</div>

参数名称	类型	是否必须	说明
name	String	false	名称
equipmentId	Long	False	设备 ID
pageNumber	Int	True	页码
pageSize	Int	True	每页记录数

<div align="center">

请求示例

</div>

{"action":"equipmentSensor","method":"list","session":{"sessionId":"79eaa27d3c91
48249260c4110f14b75a","equipmentTypeId":"1"},"param":{"pageNumber":"1","pageSize
":"20"}}

<div align="center">

返回结果

</div>

```
{
    "errcode": "0",
    "errmsg": "获取设备传感器",
    "values": [
        {
            "id": 1,
            "idNumber": "0af1e7c1c3c74b6e926349d141162953",
            "name": "传感器 1",
            "type": 1,
            "sign": 0,
            "unit": "吨",
            "equipmentIcoId": 1,
            "equipmentIcoPath": "/resources/images/1.png",
            "equipmentId": 1,
            "equipment": "消防类",
            "sensorState": 0,
            "sensorValues": [
                {
                    "value": "20"
                }
            ],
            "sensorTrueValues":
"0x110x000x000x000x000x330x780x010x010x000x000x000x000x00"
        }
    ],
    "page": {
        "totalPage": 1,
        "total": 1,
```

```
        "pageNumber": 1,
        "pageSize": 20
    }
}
```

5.5 获取传感器(根据设备，不分页)

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明
equipmentId	Long	False	设备 ID

请求示例
{″action″:″equipmentSensor″,″method″:″sensorList″,″session″:{″sessionId″:″79eaa27d3c9148249260c4110f14b75a″,″equipmentTypeId″:″1″},″param″:{″equipmentId″:″1″}}

返回结果

```
{
    "errcode": "0",
    "errmsg": "获取设备传感器",
    "values": [
        {
            "id": 1,
            "idNumber": "0af1e7c1c3c74b6e926349d141162953",
            "name": "传感器 1",
            "type": 1,
            "sign": 0,
            "unit": "吨",
            "equipmentIcoId": 1,
            "equipmentIcoPath": "/resources/images/1.png",
            "equipmentId": 1,
            "equipment": "消防类",
            "sensorState": 0,
            "sensorValues": [
                {
                    "value": "20"
                }
```

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```
        ],
            "sensorTrueValues":
"0x110x000x000x000x000x330x780x010x010x000x000x000x000x00"
        }
    ]
}
```

5.6 根据 ID 获取传感器

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明
请求示例			
{"action":"equipmentSensor","method":"getEquipmentSensorById","session":{"sessionId":"79eaa27d3c9148249260c4110f14b75a","equipmentTypeId":"1"},"param":{"equipmentSensorId":"1"}}			
返回结果			

```
{
    "errcode": "0",
    "errmsg": "获取传感器成功",
    "value": {
        "id": 1,
        "idNumber": "0af1e7c1c3c74b6e926349d141162953",
        "name": "传感器 1",
        "type": 1,
        "sign": 0,
        "unit": "吨",
        "equipmentIcoId": 1,
        "equipmentIcoPath": "/resources/images/1.png",
        "equipmentId": 1,
        "equipment": "消防类"
    }
```

```
}
```

5.7 传感器参数添加

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST

<table>
<tr><td colspan="4" align="center">接口参数</td></tr>
<tr><td>参数名称</td><td>类型</td><td>是否必须</td><td>说明</td></tr>
<tr><td>name</td><td>String</td><td>true</td><td>名称</td></tr>
<tr><td>description</td><td>String</td><td>false</td><td>描述</td></tr>
<tr><td>parameter</td><td>jsonArray</td><td>true</td><td>自定义参数，格式：
[{″name″:″名称″,″isShow″:″是否显示″}]</td></tr>
<tr><td colspan="4" align="center">请求示例</td></tr>
<tr><td colspan="4">{″action″:″equipmentSensorParams″,″method″:″save″,″session″:{″sessionId″:″79eaa27d3c9148249260c4110f14b75a″,″equipmentTypeId″:″1″},″param″:{″name″:″水表″,″description″:″国动水表类自定义″,″parameter″:[{″name″:″头信息″,″isShow″:″0″},{″name″:″读数″,″isShow″:″1″}]}}</td></tr>
<tr><td colspan="4" align="center">返回结果</td></tr>
<tr><td colspan="4">{"errcode":"0","errmsg":"添加传感器自定义参数成功!"}</td></tr>
</table>

5.8 传感器参数修改

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST

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接口参数			
参数名称	类型	是否必须	说明
sensorParamsId	Long	True	主键
name	String	false	名称
description	String	false	描述
parameter	jsonArray	true	自定义参数，格式：[{"name":"名称","isShow":"是否显示"}]
请求示例			
{"action":"equipmentSensorParams","method":"update","session":{"sessionId":"79eaa27d3c9148249260c4110f14b75a","equipmentTypeId":"1"},"param":{"sensorParamsId":"1","name":"水表1","description":"国动水表1","parameter":[{"name":"第一位","isShow":"0"},{"name":"第二位","isShow":"1"}]}}}			
返回结果			
{"errcode":"0","errmsg":"修改传感器自定义参数成功!"}			

5.9 传感器参数删除

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明
sensorParamsId	Long	true	主键
请求示例			
{"action":"equipmentSensorParams","method":"delete","session":{"sessionId":"79eaa27d3c9148249260c4110f14b75a","equipmentTypeId":"1"},"param":{"sensorParamsId":"1"}}			
返回结果			
{"errcode":"0","errmsg":"删除传感器参数成功!"}			

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5.10 获取传感器参数（分页）

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST

<table>
<tr><td colspan="4" align="center">接口参数</td></tr>
<tr><td>参数名称</td><td>类型</td><td>是否必须</td><td>说明</td></tr>
<tr><td>name</td><td>String</td><td>false</td><td>名称</td></tr>
<tr><td>description</td><td>String</td><td>false</td><td>描述</td></tr>
<tr><td>pageNumber</td><td>Int</td><td>True</td><td>页码</td></tr>
<tr><td>pageSize</td><td>Int</td><td>True</td><td>每页记录数</td></tr>
<tr><td colspan="4" align="center">请求示例</td></tr>
<tr><td colspan="4">{"action":"equipmentSensorParams","method":"list","session":{"sessionId":"79eaa27d3c9148249260c4110f14b75a","equipmentTypeId":"1"},"param":{"pageNumber":"1","pageSize":"20"}}</td></tr>
<tr><td colspan="4" align="center">返回结果</td></tr>
<tr><td colspan="4">

```
{
    "errcode": "0",
    "errmsg": "获取数据成功",
    "values": [
        {
            "id": 1,
            "name": "水表",
            "ownerId": 1,
            "description": "国动水表 1",
            "parameter": [
                {
                    "name": "第一位",
                    "isShow": "0"
                },
                {
                    "name": "第二位",
                    "isShow": "1"
                }
            ]
        }
    ],
```

</td></tr>
</table>

```
    "page": {
        "totalPage": 1,
        "total": 1,
        "pageNumber": 1,
        "pageSize": 20
    }
}
```

5.11 根据 ID 获取传感器参数

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明
sensorParamsId	Long	True	主键

请求示例

{″action″:″equipmentSensorParams″,″method″:″getSensorParamsById″,″session″:{″sessionId″:″79eaa27d3c9148249260c4110f14b75a″,″equipmentTypeId″:″1″},″param″:{″sensorParamsId″:″1″}}

返回结果

```
{
    "errcode": "0",
    "errmsg": "获取数据成功",
    "value": {
        "id": 1,
        "name": "水表",
        "ownerId": 1,
        "description": "国动水表 1",
        "parameter": [
            {
                "name": "第一位",
                "isShow": "0"
            },
            {
                "name": "第二位",
                "isShow": "1"
```

```
            }
        ]
    }
}
```

6.触发器

6.1 添加触发器

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST

<div align="center">接口参数</div>

参数名称	类型	是否必须	说明
equipmentId	Long	true	设备 ID
equipmentSensorId	Long	true	传感器 ID
equipmentAlarmType	String	true	val_above("数值高于 X"), val_below("数值低于 Y"), val_above_below("数值高于 X 低于 Y"), val_above_below_ofm("数值高于 X 低于 Y 超过 M 分钟"), x_tir_y_rec("数值高于 X 报警低于 Y 恢复"), val_between("数值在 X 和 Y 之间"), val_above_bound("数值超过 M 分钟高于 X"), val_below_bound("数值超过 M 分钟低于 Y"), offline("传感器未连接"), offline_for_minutes("超过 M 分钟未连接"), switch_on("开关 ON"),

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			switch_off("开关 OFF");
upperBound C	json	true	触发值,格式: {"key1":"value1","key2":"value2"}
target	String	true	WeiXin, Email, SMS
targetValue	String	True	报警方式联系人格式: 联系人 1,联系人 2(从 9.1 获取)
isTransfer	Int	True	是否转发 0:否,1:是
state	Int	True	触发器状态 1:已开启,0:未开启
请求示例			
{"action":"equipmentTrigger","method":"save","session":{"sessionId":"79eaa27d3c 9148249260c4110f14b75a","equipmentTypeId":"1"},"param":{"equipmentId":"1","equi pmentSensorId":"1","equipmentAlarmType":"val_above","upperBoundC":{"x":"10"},"t arget":"WeiXin","targetValue":"18751570619","isTransfer":"0","state":"1"}}			
返回结果			
{"errcode":"0","errmsg":"添加设备触发器成功!"}			

6.2 更新触发器

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST
接口参数	

参数名称	类型	是否必须	说明
equipmentTriggerId	Long	True	触发器 ID
equipmentId	Long	false	设备 ID
equipmentSensorId	Long	false	传感器 ID
equipmentAlarmType	String	false	val_above("数值高于 X"), val_below("数值低于 Y"), val_above_below("数值高于 X 低于 Y"), val_above_below_ofm("数值高于 X

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			低于 Y 超过 M 分钟"), x_tir_y_rec("数值高于 X 报警低于 Y 恢复"), val_between("数值在 X 和 Y 之间"), val_above_bound("数值超过 M 分钟 高于 X"), val_below_bound("数值超过 M 分钟 低于 Y"), offline("传感器未连接"), offline_for_minutes("超过 M 分钟 未连接"), switch_on("开关 ON"), switch_off("开关 OFF");
upperBoundC	json	false	触发值,格式: {"key1":"value1","key2":"value2"}
target	String	false	WeiXin, Email, SMS
targetValue	String	false	报警方式联系人格式: 联系人 1,联系人 2
isTransfer	Int	false	是否转发 0:否,1:是
state	Int	false	触发器状态 1:已开启,0:未开启
请求示例			
{"action":"equipmentTrigger","method":"update","session":{"equipmentTriggerId": "1","sessionId":"79eaa27d3c9148249260c4110f14b75a","equipmentTypeId":"1"},"param":{"equipmentId":"1","equipmentSensorId":"1","equipmentAlarmType":"val_above", "upperBoundC":{"x":"14"},"target":"WeiXin","targetValue":"18751570619,18921543593","isTransfer":"0","state":"1"}}}			
返回结果			
{"errcode":"0","errmsg":"更新设备触发器成功!"}			

6.3 删除触发器

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST
接口参数	
参数名称	类型	是否必须	说明

equipmentT riggerId	Long	true	触发器 ID
请求示例			
{″action″:″equipmentTrigger″,″method″:″delete″,″session″:{″sessionId″:″79eaa27d3 c9148249260c4110f14b75a″,″equipmentTypeId″:″1″},″param″:{″equipmentTriggerId″:″1 ″}}			
返回结果			

{"errcode":"0","errmsg":"删除传感器成功!"}

6.4 获取触发器

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明
equipmentI d	Long	false	设备 ID
equipmentS ensorId	Long	False	传感器 ID
state	Int	False	状态:0：未开启，1：已开启
pageNumber	Int	True	页码
pageSize	Int	True	每页记录数
请求示例			
{″action″:″equipmentTrigger″,″method″:″list″,″session″:{″sessionId″:″79eaa27d3c9 148249260c4110f14b75a″,″equipmentTypeId″:″1″},″param″:{″pageNumber″:″1″,″pageSiz e″:″20″}}			
返回结果			

```
{
    "errcode": "0",
    "errmsg": "获取触发器成功",
    "values": [
        {
            "id": 1,
            "equipmentId": 1,
            "equipmentName": "消防类",
```

```
            "equipmentSensorId": 1,
            "equipmentSensorName": "æ°´è¡¨2",
            "equipmentAlarmType": "val_above",
            "upperBoundC": {
                "key1": "value1"
            },
            "target": "WeiXin",
            "targetValue": "18751570619,18921543593",
            "isTransfer": 0,
            "state": 1,
            "equipmentTypeId": 1
        }
    ],
    "page": {
        "totalPage": 1,
        "total": 1,
        "pageNumber": 1,
        "pageSize": 20
    }
}
```

6.5 根据发器 ID 获取触发器

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST
接口参数			
参数名称	类型	是否必须	说明
请求示例			
{"action":"equipmentTrigger","method":"getEquipmentTriggerById","session":{"sessionId":"79eaa27d3c9148249260c4110f14b75a","equipmentTypeId":"1"},"param":{"equipmentTriggerId":"1"}}			
返回结果			

```
{
    "errcode": "0",
    "errmsg": "获取触发器成功",
    "value": {
        "id": 1,
```

```
            "equipmentId": 1,
            "equipmentName": "消防类",
            "equipmentSensorId": 1,
            "equipmentSensorName": "传感器 1",
            "equipmentAlarmType": "val_above",
            "upperBoundC": {
                "key1": "value1"
            },
            "target": "WeiXin",
            "targetValue": "18751570619,18921543593",
            "isTransfer": 0,
            "state": 1,
            "equipmentTypeId": 1
        }
}
```

6.6 触发器记录

接口地址	http://localhost:8080/ucskype-iot-api/internal/equipment/commonInternal.jsp
提交方式	GET/POST
接口参数			
参数名称	类型	是否必须	说明
target	String	False	WeiXin, Email, SMS
sendState	Int	False	发送状态 0:发送失败，1：发送成功
请求示例			
{"action":"equipmentTriggerLog","method":"list","session":{"sessionId":"79eaa27d3c9148249260c4110f14b75a","equipmentTypeId":"1"},"param":{"pageNumber":"1","pageSize":"20"}}			
返回结果			

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7.流量卡

7.1 获取流量卡

接口地址	http://localhost:8080/ucskype-iot-api/internal/traffic/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明
cardnumber	string	false	卡号
pageNumber	Int	True	页码
pageSize	Int	True	每页记录数

请求示例
{″action″:″trafficCard″,″method″:″list″,″session″:{″sessionId″:″79eaa27d3c9148249260c4110f14b75a″,″equipmentTypeId″:″1″},″param″:{″pageNumber″:″1″,″pageSize″:″20″}}

返回结果

```
{
    "errcode": "0",
    "errmsg": "获取流量卡成功!",
    "values": [
        {
            "id": 1,
            "cardnumber": "1503711016619",
            "iccid": "89652B4778555444754",
            "totalTraffic": 30,
            "surplusTraffic": 30,
            "warningLine": 5,
            "startTime": "2017-08-26",
            "endTime": "2020-08-26",
            "cardState": 1
        }
    ],
    "page": {
        "totalPage": 1,
        "total": 1,
        "pageNumber": 1,
```

```
        "pageSize": 20
    }
}
```

7.2 修改警戒线

接口地址	http://localhost:8080/ucskype-iot-api/internal/traffic/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明
warningLine	Float	True	触发值
trafficCardId	Long	true	浏览卡 ID

请求示例
{″action″:″equipmentTrigger″,″method″:″update″,″session″:{″equipmentTriggerId″:″1″,″sessionId″:″79eaa27d3c9148249260c4110f14b75a″,″equipmentTypeId″:″1″},″param″:{″trafficCardId″:″1″,″warningLine″:″5.00″}}
返回结果
{"errcode":"0","errmsg":"操作成功!"}

7.3 绑定/解绑设备

接口地址	http://localhost:8080/ucskype-iot-api/internal/traffic/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明
trafficCardId	Long	true	浏览卡 ID
equipmentI	Long	Flase	设备 ID

d			
isUnbind	Int	True	是否解绑 1：是，0：否
请求示例			
{"action":"trafficCard","method":"update","session":{"equipmentTriggerId":"1","sessionId":"79eaa27d3c9148249260c4110f14b75a","equipmentTypeId":"1"},"param":{"trafficCardId":"1","equipmentId":"1","isUnbind":"0"}}			
返回结果			
{"errcode":"0","errmsg":"操作成功!"}			

7.4 卡片购买

接口地址	http://localhost:8080/ucskype-iot-api/internal/traffic/commonInternal.jsp		
提交方式	GET/POST		
接口参数			
参数名称	类型	是否必须	说明
companyName	String	true	公司名称
contactName	String	Flase	联系人姓名
phone	String	True	手机号码
areaName	String	True	收货地区
address	String	True	收货街道
freightType	String	true	/** 在线支付 */ CashonLine, /** 货到付款 */ Cashondelivery
yearsNumber	Int	True	支付年限
buycardnumber	Int	True	购买数量
请求示例			

{"action":"trafficCard","method":"purchasing", "session":{"sessionId":"79eaa27d3c9148249260c4110f14b75a","equipmentTypeId":"1" },"param":{"companyName":"淘金科技","contactName":"王杰 ","phone":"18751570619","areaName":"江苏省无锡市新区","address":"哥伦布广场", "freightType":"CashonLine","yearsNumber":"1","buycardnumber":"10"}}
返回结果
{"errcode":"0","errmsg":"操作成功!"}

7.5 获取订单

"orderStatus":"订单状态","paymentStatus":"支付状态","phone":"手机号","sn":"订单号",

接口地址	http://localhost:8080/ucskype-iot-api/internal/traffic/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明
orderStatus	string	false	订单状态 /** 未确认 */ unconfirmed, /** 已确认 */ confirmed, /** 已完成 */ completed, /** 已取消 */ cancelled, /** 待发货*/ delivery
paymentStatus	string	false	支付状态 /** 未支付 */ unpaid, /** 部分支付 */ partialPayment,

			/** 已支付 */ paid, /** 部分退款 */ partialRefunds, /** 已退款 */ refunded
phone	String	false	手机号
sn	String	false	订单号
pageNumber	Int	True	页码
pageSize	Int	True	每页记录数

请求示例
{"action":"trafficCardOrder","method":"list", "session":{"sessionId":"79eaa27d3c9148249260c4110f14b75a","equipmentTypeId":"1"} ,"param":{"pageNumber":"1","pageSize":"20"}}

返回结果

```
{
    "errcode": "0",
    "errmsg": "获取流量卡订单成功!",
    "values": [
        {
            "id": 1,
            "sn": "1504862446765",
            "orderStatus": "delivery",
            "paymentStatus": "unpaid",
            "companyName": "淘金科技",
            "contactName": "王杰",
            "consignee": "王杰",
            "areaName": "江苏省无锡市新区",
            "address": "哥伦布广场",
            "zipCode": "214011",
            "phone": "18751570619",
            "fee": 480,
            "yearsNumber": 1,
            "buycardnumber": 10,
            "freightType": 10,
            "freight": 10
        }
    ],
```

```
    "page": {
        "totalPage": 1,
        "total": 1,
        "pageNumber": 1,
        "pageSize": 20
    }
}
```

8.用户管理

8.1 获取用户信息

接口地址	http://localhost:8080/ucskype-iot-api/internal/user/commonInternal.jsp
提交方式	GET/POST

<table>
<tr><td colspan="4" align="center">接口参数</td></tr>
<tr><td>参数名称</td><td>类型</td><td>是否必须</td><td>说明</td></tr>
<tr><td colspan="4" align="center">请求示例</td></tr>
<tr><td colspan="4">{"action":"user","method":"userInfo","session":{"sessionId":"79eaa27d3c9148249260c4110f14b75a","equipmentTypeId":"1"}}</td></tr>
<tr><td colspan="4" align="center">返回结果</td></tr>
<tr><td colspan="4">

```
{
    "errcode": "0",
    "errmsg": "获取信息成功!",
    "value": {
        "id": 1,
        "username": "wangjie",
        "apiKey": "67abd5dc5372489e8cb7c5fcd800c8f6",
        "idNumber": "54b86b33972249878a7186844800ec0e",
        "fee": 1000,
        "name": "王杰",
        "sex": 1,
        "birthday": "1990-01-25",
        "phone": "18751570619",
        "email": "314204475@qq.com",
        "address": "江苏省无锡",
```

</td></tr>
</table>

```
        "companyName": "无锡淘金智能科技有限公司",
        "userType": 1
    }
}
```

8.2 修改密码

接口地址	http://localhost:8080/ucskype-iot-api/internal/user/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明
oldPassword	String	True	原始密码（明文）
newPassword	String	true	新密码（明文）
reNewPassword	String	True	重复新密码（明文）
请求示例			

{″action″:″user″,″method″:″modifyPassword″,″session″:{″equipmentTriggerId″:″1″,
″sessionId″:″79eaa27d3c9148249260c4110f14b75a″,″equipmentTypeId″:″1″},″param″:{
    ″oldPassword″:″123456″,″newPassword″:″654321″,″reNewPassword″:″654321″}}

返回结果

{"errcode":"0","errmsg":"密码修改成功!"}

8.3 登录

接口地址	http://localhost:8080/ucskype-iot-api/internal/user/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明
username	String	True	用户名

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password	String	true	密码
device	String	True	登录设备类型 web,ios,android
systemVersion	String	True	当前客户端版本号

请求示例
{"action":"user","method":"login","session":{"equipmentTriggerId":"1","sessionId":"79eaa27d3c9148249260c4110f14b75a","equipmentTypeId":"1"},"param":{"username":"wangjie","password":"123456","device":"web","systemVersion":"1.0.0"}}

返回结果

```
{
    "errcode": "0",
    "errmsg": "登录成功!",
    "value": {
        "userId": "1",
        "username": "wangjie",
        "sessionId": "79eaa27d3c9148249260c4110f14b75a",
        "bindTime": "2017-08-24 13:30:00",
        "device": "web",
        "systemVersion": "1.0.0",
        "sex": 1,
        "birthday": "1990-01-25",
        "phone": "18751570619",
        "email": "314204475@qq.com",
        "address": "江苏省无锡",
        "companyName": "无锡淘金智能科技有限公司",
        "userType": 1
    }
}
```

8.4 注册

接口地址	http://localhost:8080/ucskype-iot-api/internal/user/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明
username	String	True	用户名

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password	String	true	密码
rePassword	String	True	确认密码
type	String	True	phone,email
请求示例			
{"action":"user","method":"regist","param":{"username":"18921543593","password":"123456","rePassword":"123456","type":"phone"}}			
返回结果			

{"errcode":"0","errmsg":"注册成功 !"}

8.5 充值

接口地址	http://localhost:8080/ucskype-iot-api/internal/user/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明
money	String	True	金额
type	String	true	充值类型 用户：user 短信:sms
请求示例			
{"action":"user","method":"pay", "session":{"sessionId":"79eaa27d3c9148249260c4110f14b75a","equipmentTypeId":"1" },"param":{"money":"100","type":"user"}}			
返回结果			

{"errcode":"0","errmsg":"充值成功 !"}

8.6 充值记录

接口地址	http://localhost:8080/ucskype-iot-api/internal/user/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明

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money	String	True	金额
type	String	true	充值类型 用户：user 短信:sms
请求示例			
{″action″:″userOrder″,″method″:″getUserOrder″,″session″:{″sessionId″:″79eaa27d3 c9148249260c4110f14b75a″,″equipmentTypeId″:″1″},″param″:{″pageNumber″:″1″,″page Size″:″10″}}			
返回结果			

```
{
    "errcode": "0",
    "errmsg": "获取用户订单成功!",
    "values": [
        {
            "id": 1,
            "sn": "c5751d402c49412390a5c264fd2ca2bc",
            "payType": "user",
            "payNum": 1,
            "money": 100,
            "payTime": "2017-09-09 10:40:41",
            "payStatus": "paid",
            "createDate": "2017-09-09 10:40:41",
            "ownerId": 1,
            "equipmentTypeId": 1
        }
    ],
    "page": {
        "totalPage": 1,
        "total": 1,
        "pageNumber": 1,
        "pageSize": 10
    }
}
```

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9 用户联系人

9.1 获取联系人

接口地址	http://localhost:8080/ucskype-iot-api/internal/user/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明
请求示例			
{″action″:″userContact″,″method″:″list″,″session″:{″sessionId″:″79eaa27d3c9148249260c4110f14b75a″,″equipmentTypeId″:″1″},″param″:{″pageNumber″:″1″,″pageSize″:″10″}}			
返回结果			

```
{
    "errcode": "0",
    "errmsg": "获取用户联系人成功",
    "values": [
        {
            "contactId": 2,
            "name": "邹杰夫",
            "phone": "18661076788",
            "email": "18921543593@qq.com",
            "ownerId": 1
        },
        {
            "contactId": 1,
            "name": "王杰",
            "phone": "18751570619",
            "email": "314204475@qq.com",
            "ownerId": 1
        }
    ],
    "page": {
        "totalPage": 1,
        "total": 2,
        "pageNumber": 1,
        "pageSize": 10
```

```
    }
}
```

9.2 添加联系人

接口地址	http://localhost:8080/ucskype-iot-api/internal/user/commonInternal.jsp		
提交方式	GET/POST		
<td colspan="4" align="center">接口参数</td>			
参数名称	类型	是否必须	说明
name	Long	true	姓名
phone	String	true	电话号码
email	String	True	电子邮件
<td colspan="4" align="center">请求示例</td>			
<td colspan="4">{"action":"userContact","method":"save","session":{"sessionId":"79eaa27d3c91482 49260c4110f14b75a","equipmentTypeId":"1"},"param":{"name":"鞠敬 ","phone":"18751570618","email":"18751570618@ucskype.com"}}</td>			
<td colspan="4" align="center">返回结果</td>			
<td colspan="4">{"errcode":"0","errmsg":"添加用户联系人成功!"}</td>			

9.3 修改联系人

接口地址	http://localhost:8080/ucskype-iot-api/internal/user/commonInternal.jsp		
提交方式	GET/POST		
<td colspan="4" align="center">接口参数</td>			
参数名称	类型	是否必须	说明
userContactId	Long	True	键值
name	Long	false	姓名
phone	String	false	电话号码
email	String	false	电子邮件

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请求示例
{″action″:″userContact″,″method″:″update″,″session″:{″sessionId″:″79eaa27d3c914 8249260c4110f14b75a″,″equipmentTypeId″:″1″},″param″:{″userContactId″:″1″,″name″ :″测试 1″}}
返回结果

{"errcode":"0","errmsg":"修改用户联系人成功!"}

9.4 删除联系人

接口地址	http://localhost:8080/ucskype-iot-api/internal/user/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明
userContac tId	Long	True	键值

请求示例
{″action″:″userContact″,″method″:″delete″,″session″:{″sessionId″:″79eaa27d3c914 8249260c4110f14b75a″,″equipmentTypeId″:″1″},″param″:{″userContactId″:″1″}}
返回结果

{"errcode":"0","errmsg":"删除用户联系人成功!"}

9.5 根据 ID 获取联系人

接口地址	http://localhost:8080/ucskype-iot-api/internal/user/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明
请求示例			

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{″action″:″userContact″,″method″:″getContactById″,″session″:{″sessionId″:″79eaa27d3c9148249260c4110f14b75a″,″equipmentTypeId″:″1″},″param″:{″contactId″:″1″}}
返回结果

```
{
    "errcode": "0",
    "errmsg": "获取用户联系人成功",
    "value": {
        "name": "测试 1",
        "phone": "18751570619",
        "email": "314204475@qq.com",
        "ownerId": 1
    }
}
```

10.数据报表/实时数据

10.1 获取传感器实时数据

接口地址	http://localhost:8080/ucskype-iot-api/internal/report/commonInternal.jsp
提交方式	GET/POST

接口参数			
参数名称	类型	是否必须	说明
dateTime	String	False	当前日期 yyyy-MM-dd, 不传默认为当天
sensorId	Long	True	传感器 ID
请求示例			
{″action″:″reportEquipmentSensor″,″method″:″listNoPage″,″session″:{″sessionId″:″79eaa27d3c9148249260c4110f14b75a″,″equipmentTypeId″:″1″},″param″:{″dateTime″:″2017-09-02″,″sensorId″:″1″}}			
返回结果			

{
    "errcode": "0",
    "errmsg": "获取传感器记录成功",
    "values": [			

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```
        {
            "id": 3,
            "sensorId": 1,
            "sensorNumber": "0af1e7c1c3c74b6e926349d141162953",
            "sensorValues": [
                {
                    "value": "30"
                }
            ],
            "sensorTrueValue": "\\x6800002400",
            "dateTime": "2017-09-02",
            "createDate": "2017-09-02 14:13:54",
            "modifyDate": "2017-09-02 14:12:05",
            "year": "2017",
            "month": "09",
            "day": "02",
            "hour": "14",
            "minute": "12",
            "ownerId": 1
        },
        {
            "id": 2,
            "sensorId": 1,
            "sensorNumber": "0af1e7c1c3c74b6e926349d141162953",
            "sensorValues": [
                {
                    "value": "20"
                }
            ],
            "sensorTrueValue": "\\x6800002400",
            "dateTime": "2017-09-02",
            "createDate": "2017-09-02 14:11:24",
            "modifyDate": "2017-09-02 14:11:32",
            "year": "2017",
            "month": "09",
            "day": "02",
            "hour": "14",
            "minute": "11",
            "ownerId": 1
        },
        {
            "id": 1,
            "sensorId": 1,
            "sensorNumber": "0af1e7c1c3c74b6e926349d141162953",
```

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```
            "sensorValues": [
                {
                    "value": "10"
                }
            ],
            "sensorTrueValue": "\\x6800000000",
            "dateTime": "2017-09-02",
            "createDate": "2017-09-02 14:09:53",
            "modifyDate": "2017-09-02 14:09:58",
            "year": "2017",
            "month": "09",
            "day": "02",
            "hour": "14",
            "minute": "09",
            "ownerId": 1
        }
    ]
}
```

10.2 获取历史传感器数据

接口地址	http://localhost:8080/ucskype-iot-api/internal/report/commonInternal.jsp
提交方式	GET/POST

<table>
<tr><td colspan="4" align="center">接口参数</td></tr>
<tr><td>参数名称</td><td>类型</td><td>是否必须</td><td>说明</td></tr>
<tr><td>startTime</td><td>String</td><td>False</td><td>起始日期，默认为当天</td></tr>
<tr><td>endTime</td><td>String</td><td>False</td><td>结束日期，默认为当天</td></tr>
<tr><td>sensorId</td><td>Long</td><td>True</td><td>传感器 ID</td></tr>
<tr><td colspan="4" align="center">请求示例</td></tr>
<tr><td colspan="4">{"action":"reportEquipmentSensor","method":"listByPage","session":{"sessionId":"79eaa27d3c9148249260c4110f14b75a","equipmentTypeId":"1"},"param":{"pageNumber":"1","pageSize":"20","sensorId":"1"}}</td></tr>
<tr><td colspan="4" align="center">返回结果</td></tr>
<tr><td colspan="4">{
    "errcode": "0",
    "errmsg": "获取传感器记录成功",</td></tr>
</table>

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```
"values": [
    {
        "id": 3,
        "sensorId": 1,
        "sensorNumber": "0af1e7c1c3c74b6e926349d141162953",
        "sensorValues": [
            {
                "value": "30"
            }
        ],
        "sensorTrueValue": "\\x6800002400",
        "dateTime": "2017-09-02",
        "createDate": "2017-09-02 14:13:54",
        "modifyDate": "2017-09-02 14:12:05",
        "year": "2017",
        "month": "09",
        "day": "02",
        "hour": "14",
        "minute": "12",
        "ownerId": 1
    },
    {
        "id": 2,
        "sensorId": 1,
        "sensorNumber": "0af1e7c1c3c74b6e926349d141162953",
        "sensorValues": [
            {
                "value": "20"
            }
        ],
        "sensorTrueValue": "\\x6800002400",
        "dateTime": "2017-09-02",
        "createDate": "2017-09-02 14:11:24",
        "modifyDate": "2017-09-02 14:11:32",
        "year": "2017",
        "month": "09",
        "day": "02",
        "hour": "14",
        "minute": "11",
        "ownerId": 1
    },
    {
        "id": 1,
        "sensorId": 1,
```

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```
        "sensorNumber": "0af1e7c1c3c74b6e926349d141162953",
        "sensorValues": [
            {
                "value": "10"
            }
        ],
        "sensorTrueValue": "\\x6800000000",
        "dateTime": "2017-09-02",
        "createDate": "2017-09-02 14:09:53",
        "modifyDate": "2017-09-02 14:09:58",
        "year": "2017",
        "month": "09",
        "day": "02",
        "hour": "14",
        "minute": "09",
        "ownerId": 1
        }
    ],
    "page": {
        "totalPage": 1,
        "total": 3,
        "pageNumber": 1,
        "pageSize": 20
    }
}
```

10.3 获取传感器实时上报

说明：用于获取设备传感器状态，最近一次上报参数

接口地址	http://localhost:8080/ucskype-iot-api/internal/report/commonInternal.jsp		
提交方式	GET/POST		
接口参数			
参数名称	类型	是否必须	说明
idNumber	String	True	传感器编号
请求示例			
{"action":"equipmentSensorState","method":"getEquipmentSensorStateByIdnumber","s			

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ession":{"sessionId":"79eaa27d3c9148249260c4110f14b75a","equipmentTypeId":"1"},"param":{"idNumber":"0af1e7c1c3c74b6e926349d141162953"}}
返回结果

```
{
    "errcode": "0",
    "errmsg": "拉取上报信息成功!",
    "value": {
        "id": 3,
        "idNumber": "0af1e7c1c3c74b6e926349d141162953",
        "values": [
            {
                "value": "30"
            }
        ],
        "trueValue": "\\x6800002400",
        "state": 0,
        "equipmentName": "消防类",
        "sensorName": "传感器 1",
        "sensorType": 1,
        "modifyDate": "Sat Sep 02 14:12:05 CST 2017"
    }
}
```