**Gas-web接口文档**

**2020.04**

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## 登录接口

前端请求url，获取后端参数，根据code判断是否登陆成功

url: [http://47.103.121.83:8082/gasweb/user/loginConfirm](http://47.104.244.171:8080/gas-web/user/loginConfirm)

请求方式: POST

请求:{username: xxx,

password:xxx}

响应:{code:xxx,

msg:xxx,

user:xxx

}

## 设备列表页（主页面）接口

url: [http://47.103.121.83:8082/gasweb/device/list](http://47.104.244.171:8080/gas-web/device/list)

请求方式：GET

请求:{

"user":"{\"id\":8,\"username\":\"admin\",\"password\":null}", //用户信息

currentPage:xxx, //当前页

pageSize:xxx, //页面行数

orderField:xxx, //排序列名

orderType:xxx, //排序类型

deviceIdKey:xxx, //设备编号

deviceNumber:xxx, //模糊查询设备编号

timeInterval:xxx, //报警时间间隔

deviceType:xxx, //设备类型

company:xxx, //销售公司

startTime:xxx, //开始时间

endTime:xxx, //结束时间

deviceProduct:xxx //生产产商

}

响应:{

"deviceList": {

"totalCount": \*,

"currentPage": \*,

"pageSize": \*,

"list": [ {

"id": 1,

"deviceIDKey": "000000001001",

"deviceType": "皮膜",

"collectTimeKey": "2019-06-09 15:44:11",

"isWarning": "0",

"communityName": null,

**"kind": 0,**

**"kindContent": “测试气表”,**

"latestCode": null,

"puidKey": "false"

},

{~~~}

]

}

}

## 设备编辑页面相关接口

本页面主要有两个接口，一个负责获得设备属性，一个负责更新设备属性

（1）获取设备属性

url: [http://47.103.121.83:8082/gasweb/device/findAttribute](http://47.104.244.171:8080/gas-web/device/findAttribute)

请求方式: GET

请求:deviceIdKey

响应:deviceAttribute{

deviceIdKey:xxx, //设备号

commNoKey:xxx, //imei

deviceProvince:xxx, //所在省

deviceCity:xxx, //所在市

communityName:xxx, //小区地址

simNumber:xxx, //通讯号码

householdId:xxx, //用户编号

householdName:xxx, //户主姓名

householdNumber:xxx, //户主身份证号

telephone:xxx, //户主电话

installTime:xxx, //设备安装时间

deviceType:xxx, //设备类型

company:xxx, //销售公司

deviceProduct:xxx, //设备厂商

}

（2）更新设备属性

url: [http://47.103.121.83:8082/gasweb/device/updateAttribute](http://47.104.244.171:8080/gas-web/device/updateAttribute)

请求方式: POST

请求:{

deviceIdKey:xxx, //设备号

commNoKey:xxx, //imei

deviceProvince:xxx, //所在省

deviceCity:xxx, //所在市

communityName:xxx, //小区地址

simNumber:xxx, //通讯号码

householdId:xxx, //用户编号

householdName:xxx, //户主姓名

householdNumber:xxx, //户主身份证号

telephone:xxx, //户主电话

installTime:xxx, //设备安装时间

deviceType:xxx, //设备类型

company:xxx, //销售公司

deviceProduct:xxx, //设备厂商

}

响应: true/false

（3）查找一段时间内未上传数据设备

url: [http://47.103.121.83:8082/gasweb/device/findFailure](http://47.104.244.171:8080/gas-web/device/findFailure)

请求方式: GET

请求:{

"user":"{\"id\":8,\"username\":\"admin\",\"password\":null}", //用户信息

currentPage:xxx, //当前页

pageSize:xxx, //页面行数

orderField:xxx, //排序列名

orderType:xxx, //排序类型

deviceIdKey:xxx, //设备编号

deviceNumber:xxx, //模糊查询设备编号

timeInterval:xxx, //报警时间间隔

deviceType:xxx, //设备类型

company:xxx, //销售公司

startTime:xxx, //开始时间

endTime:xxx, //结束时间

deviceProduct:xxx //生产产商

screenTime:xxx //查找时间

}

响应：响应:{

"deviceList": {

"totalCount": \*,

"currentPage": \*,

"pageSize": \*,

"list": [ {

"id": 1,

"deviceIDKey": "000000001001",

"deviceType": "皮膜",

"collectTimeKey": "2019-06-09 15:44:11",

"isWarning": "0",

"communityName": null,

**"kind": 0,**

**"kindContent": “测试气表”,**

"latestCode": null,

"puidKey": "否"

},

{~~~}

]

}

}

## 设备抄表详细页面接口

url: [http://47.103.121.83:8082/gasweb/device/findHistory](http://47.104.244.171:8080/gas-web/device/findHistory)

请求方式: GET

请求:{

currentPage:xxx, //当前页

pageSize:xxx, //页面行数

orderField:xxx, //排序列名

orderType:xxx, //排序类型

deviceIdKey:xxx, //设备编号

}

响应:{

"historyList": {

"totalCount": 60,

"currentPage": 3,

"pageSize": 5,

"list": [

{

"id": 11,

"deviceIdKey": "031518366666",

"rssiKey": "12",

"realVolKey": null,

"materV1Key": 2.45,

"materV2Key": 3.3,

"temperatureKey": 24.87,

"statusKey": "80",

"meterStatusWordKey": "0",

"totalStandardFlowKey": 12345.67,

"totalRealFlowKey": 12345.67,

"standardFlowKey": 0,

"realFlowKey": 0,

"pressureKey": null,

"peakFlowKey": 0,

"interfereVolKey": null,

"compressFactorKey": null,

"ip": "172.31.112.1",

"writeTime": "2019-05-30 13:58:02",

"collecttimekey": "2019-05-30 13:58"

"flag":true

"validData":"150303151836666600FFFFFF0081518656020400246520FFFF011905003CFFFFFFFF16190000FFFFFF0D2013490245033080000123456701234567000000002468FFFFFFFF0000FFFFFFFF0D2014310245033080000123456701234567000000002475FFFFFFFF0000FFFFFFFF0C2015320245033080000123456701234567000000002487FFFFFFFF0000FFFFFFFF1914"

},

{~~~}

]

}

}

## 告警页面接口

url: [http://47.103.121.83:8082/gasweb/device/getWarning](http://47.104.244.171:8080/gas-web/device/getWarning)

请求方式: GET

请求:{

currentPage:xxx, //当前页

pageSize:xxx, //页面行数

orderField:xxx, //排序列名

orderType:xxx, //排序类型

deviceIdKey:xxx, //设备编号

}

响应:{

"warningList": {

"totalCount": 123,

"currentPage": 1,

"pageSize": 10,

"list": [

{

"id": 1,

"deviceIdKey": "033599999999",

"warningIdKey": "9",

"warningTimeKey": "2019-06-27 16",

"warningContentKey": "0.00",

"warningInfo": "采集故障"

},

{~~~}

}]

}

}

## 事件页面接口

url: [http://47.103.121.83:8082/gasweb/device/getEvent](http://47.104.244.171:8080/gas-web/device/getEvent)

请求方式: GET

请求:{

currentPage:xxx, //当前页

pageSize:xxx, //页面行数

orderField:xxx, //排序列名

orderType:xxx, //排序类型

deviceIdKey:xxx, //设备编号

}

响应:{

"eventList": {

"totalCount": 14,

"currentPage": 1,

"pageSize": 10,

"list": [

{

"id": 1,

"deviceIdKey": "000000001001",

"eventIdKey": "8",

"eventTimeKey": "2019-06-28 14",

"eventContentKey": "73.02",

"eventInfo": "计量电压低"

},

{~~~}

}]

}

}

## 响应页面接口

url: [http://47.103.121.83:8082/gasweb/device/getResponse](http://47.104.244.171:8080/gas-web/device/getResponse)

请求方式: GET

请求:{

currentPage:xxx, //当前页

pageSize:xxx, //页面行数

orderField:xxx, //排序列名

orderType:xxx, //排序类型

deviceIdKey:xxx, //设备编号

}

响应:{

"responseList": {

"totalCount": 14,

"currentPage": 1,

"pageSize": 10,

"list": [

{

"id": 1,

"deviceIDKey": "033599999999",

"ts": "2019-06-29 16:50:26",

"response": "{\"CommandCode\":\"86\",\"033599999999-86\":\"{\\\"DeviceIDKey\\\":\\\"033599999999\\\",\\\"RandNumKey\\\":\\\"E12B0000\\\",\\\"OpenValueResultsKey\\\":\\\"FF\\\",\\\"PuidKey\\\":\\\"\\\"}\",\"Key\":\"033599999999\"}",

"commandCode": "86"

},

{~~~}

}]

}

}

## 命令页面接口

url: [http://47.103.121.83:8082/gasweb/device/getCommand](http://47.104.244.171:8080/gas-web/device/getCommand)

请求方式: GET

请求:{

currentPage:xxx, //当前页

pageSize:xxx, //页面行数

orderField:xxx, //排序列名

orderType:xxx, //排序类型

deviceIdKey:xxx, //设备编号

}

响应:{

{

     "commandList": {

        "totalCount": 252,

        "currentPage": 1,

        "pageSize": 10,

        "list": [

            {

                "id": 1,

                "deviceIdKey": "031519902039",

                "ts": "2020-04-26 00:11:07",

                "commandCode": "5F",

                "command": "{\"PuidKey\":\"\",\"SecurityKey\":false,\"TaskIDKey\":\"\",\"DateTimeKey\":\"200426001106\",\"DeviceIDKey\":\"031519902039\",\"ReadIntervalKey\":\"1440\",\"UPTimeKey\":\"FF001118\",\"UPPeriodKey\":\"1440\",\"OPTypeKey\":\"10\"}"

}，

{~~~}

}]

}

}

## 统计页面接口

url: [http://47.103.121.83:8082/gasweb/device/getStatics](http://47.104.244.171:8080/gas-web/device/getStatics)

请求方式: GET

请求：{

"date":"2020-04-06",

"kind":"0"

}

响应：

{

    "uniqueTotalNum": 402, //只上报一次

    "notUploadTotalNum": 781, //未上报

    "repeatTotalNum": 1 //重复上报

}

## 导出设备属性表接口

url: [http://47.103.121.83:8082/gasweb/device/exportExcel](http://47.104.244.171:8080/gas-web/device/exportExcel)

请求方式: POST

请求：{

031518370005 //设备id组

}

响应：xxx.xlsx格式excel文件。

## 添加设备出厂条件标准

url: [http://47.103.121.83:8082/gasweb/device/addCondition](http://47.104.244.171:8080/gas-web/device/addCondition)

请求方式: POST

请求：{

"user":"{\"id\":8,\"username\":\"admin\",\"password\":null}",

"totalFlowUpperLimit":"10", //累积量上限

"totalFlowFloorLimit":"2", //累积量下限

"rssiUpperLimit":"55", //CSQ上限

"rssiFloorLimit":"0", //CSQ下限

"swrlse":"04" //版本号

}

响应{

"submit": "success" //success 表示成功，failure表示失败

}

## 下发命令接口(请求方式:POST)

### 12.1修改网络参数

url: [http://47.103.121.83:8082/gasweb/postCommand/01](http://47.104.244.171:8080/gas-web/postCommand/01)

请求:{

deviceIdKeys:xxx, //设备id组

iPKey:xxx, //ip

portKey:xxx, //端口

}

响应:{

command:success/failed

}

### 12.2下载更新软件版本

url: [http://47.103.121.83:8082/gasweb/postCommand/02](http://47.104.244.171:8080/gas-web/postCommand/02)

请求:{

xxx, //设备id组

uRLKey:xxx, //下载地址

}

响应:{

command:success/failed

}

### 12.3远程关阀

url: [http://47.103.121.83:8082/gasweb/postCommand/03](http://47.104.244.171:8080/gas-web/postCommand/03)

请求:{

xxx, //设备id组

}

响应:{

command:success/failed

}

### 12.4远程开阀

url: [http://47.103.121.83:8082/gasweb/postCommand/04](http://47.104.244.171:8080/gas-web/postCommand/04)

请求:{

xxx, //设备id组

}

响应:{

command:success/failed

}

### 12.5恢复出厂设置

url: [http://47.103.121.83:8082/gasweb/postCommand/05](http://47.104.244.171:8080/gas-web/postCommand/05)

请求:{

xxx, //设备id组

}

响应:{

command:success/failed

}

### 12.6读取事件记录

url: [http://47.103.121.83:8082/gasweb/postCommand/06](http://47.104.244.171:8080/gas-web/postCommand/06)

请求:{

deviceIdKeys:xxx, //设备id组

}

响应:{

command:success/failed

}

### 12.7结束报文

url: [http://47.103.121.83:8082/gasweb/postCommand/08](http://47.104.244.171:8080/gas-web/postCommand/08)

请求:{

deviceIdKeys:xxx, //设备id组

readIntervalKey:xxx, //采集周期

uPTimeKey:xxx, //下次上传时间

uPPeriodKey:xxx, //下次上传周期

securityKey:xxx, //是否加密

businessPeriodKey:xxx

}

响应:{

command:success/failed

}

### 12.8远程关阀使能

url: [http://47.103.121.83:8082/gasweb/postCommand/09](http://47.104.244.171:8080/gas-web/postCommand/09)

请求:{

deviceIdKeys:xxx, //设备id组

enableKey:xxx, //使能控制字

startTimeKey:xxx, //起始间隔时间

holdingTimeKey:xxx, //保持时间

}

响应:{

command:success/failed

}

### 12.9设置安全流量参数

url: [http://47.103.121.83:8082/gasweb/postCommand/10](http://47.104.244.171:8080/gas-web/postCommand/10)

请求:{

deviceIdKeys:xxx, //设备id组

alerm1VHKey:xxx, //报警流量1上限

alerm1VLKey:xxx, //报警流量1下限

alerm1TimeKey:xxx, //报警流量1持续

alerm2VHKey:xxx, //报警流量2上限

alerm2VLKey:xxx, //报警流量2下限

alerm2TimeKey:xxx, //报警流量2持续

alerm3VHKey:xxx, //报警流量3上限

alerm3VLKey:xxx, //报警流量3下限

alerm3TimeKey:xxx, //报警流量3持续

}

响应:{

command:success/failed

}

### 12.10读取安全流量参数

url: [http://47.103.121.83:8082/gasweb/postCommand/11](http://47.104.244.171:8080/gas-web/postCommand/11)

请求:{

deviceIdKeys:xxx, //设备id组

}

响应:{

command:success/failed

}

### 12.11设置长休眠模式指令

url: [http://47.103.121.83:8082/gasweb/postCommand/12](http://47.104.244.171:8080/gas-web/postCommand/12)

请求:{

deviceIdKeys:xxx, //设备id组

}

响应:{

command:success/failed

}

### 12.12更新SOTP加密协议插件

url: [http://47.103.121.83:8082/gasweb/postCommand/13](http://47.104.244.171:8080/gas-web/postCommand/13)

请求:{

deviceIdKeys:xxx, //设备id组

}

响应:{

command:success/failed

}

### 12.13 非计量故障关阀使能

url: [http://47.103.121.83:8082/gaswe/bpostCommand/14](http://47.104.244.171:8080/gas-web/postCommand/14)

请求:{

deviceIdKeys:xxx, //设备id组

closeValveKey:xxx, //故障关阀

closeValveEventKey:xxx, //关阀时间状态位

}

响应:{

command:success/failed

}

### 12.14清除命令

url: [http://47.103.121.83:8082/gasweb/postCommand/15](http://47.104.244.171:8080/gas-web/postCommand/15)

请求:{

deviceIdKeys:XXX //设备id组

}

响应:{

Command:success/failed

}

## 检查设备出厂标准

（1）url: [http://47.103.121.83:8082/gasweb/device/getControlCode](http://47.104.244.171:8080/gas-web/device/getControlCode)

请求方式: POST

请求：设备id组

响应{

"031519900001": {

"swrlseKey": false, //版本号

"rssiKey": true, //CSQ

"totalFlowKey": false, //累积量

"SOTPEncryption": true, //SOTP加密验证标记

"validData": "150303151990000110FFFFFF003D5108656020400283490F02011909FFFFFFFFFFFF9A530000FFFFFF0E1913440364036040010000168300001683000000002550FFFFFFFF0000FFFFFFFFB014",

//原始数据

"ModifyNetPar": false, //修改网络参数命令下发标记

"downloadPlug": false, //下载插件标记

"SOTPLogin": true, //SOTP登陆验证标记

"status": false //标志位

}

}

（2）通过xxx.xls格式Excel批量检查出厂标准

url: [http://47.103.121.83:8082/gasweb/device/exportExcel](http://47.104.244.171:8080/gas-web/device/exportExcel)

请求方式: POST

请求： xxx.xls格式文件

响应：xxx.xls格式文件

## 新增接口——2020年9月—2020年11月

(1)url: [http://47.103.121.83:8082/gasweb/device/exc](http://47.104.244.171:8080/gas-web/device/exportExcel)elFile

描述：上传excel文件更新数据库中gas\_attribute表中的数据，excel文件中的列明必须与模板文件一致，顺序可打乱。

请求方式：post

请求：excelFile:选择文件

响应：失败原因或上传文件成功

## (2)url: [http://47.103.121.83:8082/gasweb/device/](http://47.104.244.171:8080/gas-web/device/exportExcel)findLatitude

描述:返回gas\_message表中设备的经纬度，前端在地图页面进行渲染。

请求方式：get

请求参数：

1. maxLat: 31.517716186793663
2. maxLng: 122.2134470813978
3. minLat: 30.706457121156426
4. minLng: 120.86699491860205

响应：{"locationList":

[["121.51114835093736","31.40902914470973"],["121.44865691966078","31.24549857902937"]]

}

1. url: [http://47.103.121.83:8082/gasweb/device/](http://47.104.244.171:8080/gas-web/device/exportExcel)findDiscrete

描述：根据gas\_message表中的writetime的小时数进行分组。

请求方式：get

请求参数：测本号和表类型，可以为空

1. book: ""
2. kind: ""

响应：{"discreteList":[{"myHour":0,"myCount":8213},{"myHour":1,"myCount":8489},{"myHour":2,"myCount":8425},{"myHour":3,"myCount":1772},{"myHour":4,"myCount":1364},{"myHour":5,"myCount":1343},{"myHour":6,"myCount":30},{"myHour":7,"myCount":27},{"myHour":8,"myCount":968},{"myHour":9,"myCount":1352},{"myHour":10,"myCount":747},{"myHour":11,"myCount":621},{"myHour":12,"myCount":526},{"myHour":13,"myCount":1087},{"myHour":14,"myCount":985},{"myHour":15,"myCount":296},{"myHour":16,"myCount":325},{"myHour":17,"myCount":3407},{"myHour":18,"myCount":3529},{"myHour":19,"myCount":3739},{"myHour":20,"myCount":3771},{"myHour":21,"myCount":3712},{"myHour":22,"myCount":3693},{"myHour":23,"myCount":963}]}

}

## 15.新增接口——2020年11月—2021年1月

1. Url: [http://47.103.121.83:8082/gasweb/device/](http://47.104.244.171:8080/gas-web/device/exportExcel)findLatitudeInOneHour

描述：查询最近一小时报警的表的地址信息

请求方式：get

请求参数：无

响应：{

    "locationList": [

        {

            "deviceIdKey": "031519904967",

            "coordinate": "121.435357,31.244451",

            "deviceType": "超声波",

            "content": "拆表",

            "communityName": "澳门路660弄335号303室"

        },

        {

            "deviceIdKey": "031519905618",

            "coordinate": "121.436656,31.245979",

            "deviceType": "超声波",

            "content": "拆表",

            "communityName": "澳门路660弄144号301-2室"

        }]

}

1. [http://47.103.121.83:8082/gasweb/device/](http://47.104.244.171:8080/gas-web/device/exportExcel)findMinuteDiscrete

描述：查询某个小时内的离散情况

请求方式： get

请求参数： hour必须有，book和kind可以为空

1. book: ""
2. hour: "0"
3. kind: ""

响应：60组数据对应60分钟{"count":[45,77,118,122,115,128,137,139,143,137,120,138,146,149,177,129,126,146,136,136,151,115,146,126,145,147,142,140,142,136,142,163,134,144,142,134,132,157,140,164,146,123,146,134,128,148,132,149,148,139,141,149,155,143,129,122,140,146,160,129],"minute":[0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59]}

1. [http://47.103.121.83:8082/gasweb/device/](http://47.104.244.171:8080/gas-web/device/exportExcel)findStatUpload

描述：查询某个周期内表的上传情况

请求方式： get

请求参数： 表类型默认为2，minusDays表示查询周期，toDate表示截止到多少日

1. kind: "2"
2. minusDays: 3
3. toDate: "2021-01-14T07:19:08.095Z"

响应：

{"statList":[{"notUploadTotalNum":29613,"uniqueTotalNum":1,"repeatTotalNum":0,"date":"2021-01-12"},{"notUploadTotalNum":29541,"uniqueTotalNum":12842,"repeatTotalNum":2018,"date":"2021-01-13"},{"notUploadTotalNum":811,"uniqueTotalNum":42407,"repeatTotalNum":3742,"date":"2021-01-14"}]}

1. Url: [http://47.103.121.83:8082/gasweb/device/](http://47.104.244.171:8080/gas-web/device/exportExcel)findNotUploadDeviceId

描述： 查询某一天没有上报的表的列表（不包含在仓库中未安装出去的）

请求方式： get

请求参数： 日期

"2021-01-10"

响应：{

    "notUploadDeviceId": [

        "031520923519",

        "033520919109",

        "033520921045",

        "033520926557",

        "033520922309",

        "031520924827",

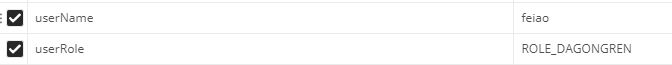
        "031520925018",]

}

## 16.更新接口

1. Url :[http://47.103.121.83:8082/gasweb/device/list](http://47.104.244.171:8080/gas-web/device/list)

主页面接口增加了权限控制，特定表厂的账号只能看到特定的数据，用请求工具测试要在header中增加如下内容：



网页端请求任意接口都会经过网关，网关会在header中加上userName和userRole两个信息，但是只有list接口会通过@RequestHeader注解取到这两个信息做权限控制，其他接口忽略这两个信息。

查询数据时，会根据用户名和权限在选择表时拼接上相关查询条件。