水务管理查询统计API文档

零. 约定

统一数据传输方式：JSON

所有时间统一用毫米秒时间戳表示

所有查询都是模糊查询

一、流水查询模块

1. 区域查询

请求方式： GET

请求URL： `/region`

查询参数： 无

响应结果：

```
1  {
2    data:[{id: 区域id number, name: 区域名称 string,  children: 子区域信息 obj[] },..
3    total:数据总数
4  }
```

响应示例

```
1  {
2    "data": [{
3      "id": 1212,
4      "name": "山东省",
5      "children": [
6        {
7          "id": 1215,
8          "name": "烟台市",
9          "children": null
10       },
11       {
12         "id": 1217,
13         "name": "青岛市",
14         "children": null
```

```
15          }
16      ]
17    },
18    {
19      "id": 2212,
20      "name": "湖南省",
21      "children": [
22        {
23          "id": 2215,
24          "name": "长沙市",
25          "children": null
26        },
27        {
28          "id": 2217,
29          "name": "湘潭市",
30          "children": null
31        }
32      ]
33    }]
34  }
```

2. 流水查询

请求方式： GET

请求URL： `flow`

查询参数：

参数项	解释	必须	备注
region_id	区域id	否	
page	查询第几页	是	第一页从1开始
page_count	一页数据条数	是	
device_code	设备编码	否	
~~watch_status~~	抄表状态	否	~~如："成功"~~

响应结果：

```
1 {
2   "data": [{username:用户名String,
```

```
3      house_number:门牌号String,
4      device_code:设备编码String,
5      balance:水表余额num,
6      status:设备状态String,
7      settle_flow:结算流量num,
8      total_flow:累计流量num,
9      last_month_flow:上月使用num,
10     created_at:操作时间String,
11     flow_chart_url:流量曲线图链接String
12
13     }, ...],
14     "total":数据总数
15  }
```

响应示例

```
1  {
2    "data":[
3      {
4        "username":"张三",
5        "house_number":"1号楼1单元101",
6        "device_code":"123456789",
7        "balance":100,
8        "status":"正常",
9        "settle_flow":100,
10       "total_flow":100,
11       "last_month_flow":100,
12       "created_at":"1687709763000",
13       "flow_chart_url":"https://syimg.3dmgame.com/uploadimg/upload/image/2020092
14      },
15      {
16       "username":"张三",
17       "house_number":"1号楼1单元101",
18       "device_code":"123456790",
19       "balance":100,
20       "status":"正常",
21       "settle_flow":100,
22       "total_flow":100,
23       "last_month_flow":100,
24       "created_at":"1687709763000",
25       "flow_chart_url":"https://syimg.3dmgame.com/uploadimg/upload/image/2020092
26      },
27      {
28       "username":"张三",
29       "house_number":"1号楼1单元101",
```

```
30        "device_code":"123456791",
31        "balance":100,
32        "status":"正常",
33        "settle_flow":100,
34        "total_flow":100,
35        "last_month_flow":100,
36        "created_at":"1687709763000",
37        "flow_chart_url":"https://syimg.3dmgame.com/uploadimg/upload/image/2020092
38      },
39      {
40        "username":"张三",
41        "house_number":"1号楼1单元101",
42        "device_code":"123456792",
43        "balance":100,
44        "status":"正常",
45        "settle_flow":100,
46        "total_flow":100,
47        "last_month_flow":100,
48        "created_at":"1687709763000",
49        "flow_chart_url":"https://syimg.3dmgame.com/uploadimg/upload/image/2020092
50      },
51      ...
52    ],
53    "total":100
54 }
```

二、费用查询模块

请求方式： GET

请求URL： `/cost`

查询参数：

参数项	解释	必须	备注
region_id	区域id	否	
page	查询第几页	是	
page_count	一页数据条数	是	
user_name	用户名	否	
user_code	用户编码	否	

响应结果：

```
1  {
2    "data": [{
3    username:用户名String,
4    user_code:用户编码String,
5    phone_number:电话String,
6    account_balance:账本余额num,
7    consumed_amount:已消费金额num,
8    arrears_balance:欠费金额num,
9    last_billing_date:最后账期String
10   }],
11   "total":数据总数
12 }
```

响应示例

```
1  {
2    "data":[
3      {
4        "username":"张三",
5        "user_code":"123456",
6        "phone_number":"123456789",
7        "account_balance":100,
8        "consumed_amount":100,
9        "arrears_balance":100,
10       "last_billing_date":"1687709763000"
11     },
12     {
13       "username":"张三",
14       "user_code":"123456",
15       "phone_number":"123456789",
16       "account_balance":100,
17       "consumed_amount":100,
18       "arrears_balance":100,
19       "last_billing_date":"1687709763000"
20     }
21     ...
22   ],
23   "total":100
24 }
```

三、操作日志模块

请求方式： GET

请求URL： `/opt`

查询参数：

参数项	解释	必须	备注
page	查询第几页	是	
page_count	一页数据条数	是	
opt_type	操作类型	否	

响应结果：

```
1  {
2    "data": [{
3        log_type:日志类型String,
4        device_code:设备编码String,
5        operator:操作人String,
6        operation_time:操作时间String,
7        ip_address:操作IP String
8    }],
9    "total":数据总数
10 }
```

响应示例

```
1  {
2    "data":[
3      {
4        "log_type":"日志类型",
5        "device_code":"8787878787",
6        "operator":"张三",
7        "operation_time":"1687709763000",
8        "ip_address":"8.110.35.97"
9      },
10     {
11       "log_type":"日志类型",
12       "device_code":"8787878787",
13       "operator":"张三",
```

```
14         "operation_time":"1687709763000",
15         "ip_address":"8.110.35.97"
16     },
17     {
18         "log_type":"日志类型",
19         "device_code":"8787878787",
20         "operator":"张三",
21         "operation_time":"1687709763000",
22         "ip_address":"8.110.35.97"
23     },
24     ...
25
26     ],
27     "total":100
28 }
```

四、定时任务模块

请求方式： GET

请求URL： `schedule`

查询参数：

参数项	解释	必须	备注
page	查询第几页	是	
page_count	一页数据条数	是	
~~coll_code~~	~~采集器编码~~	否	
watcher_num	水表编号	否	

响应结果：

```
1 {
2   "data": [{
3       user_code:用户编码String,
4       user_name:用户名String,
5       water_meter_number:水表编号String,
6       operation_type:操作类型S,
7       execution_status:执行状态S,
8       execution_count:执行次数num,
9       created_at:创建时间S,
```

```
10        execution_time:执行时间S
11    }],
12    "total":数据总数
13  }
```

响应示例

```
1  {
2    "data":[
3      {
4        "user_code":"234567890",
5        "user_name":"Raephel",
6        "water_meter_number":"78",
7        "operation_type":"操作类型",
8        "execution_status":"执行状态",
9        "execution_count":"执行次数",
10       "created_at":"1687709763000",
11       "execution_time":"6767"
12     },
13     {
14       "user_code":"234567890",
15       "user_name":"Raephel",
16       "water_meter_number":"78",
17       "operation_type":"操作类型",
18       "execution_status":"执行状态",
19       "execution_count":"执行次数",
20       "created_at":"1687709763000",
21       "execution_time":"6767"
22     },
23     ...
24
25   ],
26   "total":100
27 }
```

五、历史抄收模块

请求方式： GET

请求URL： `trans`

查询参数：

参数项	解释	必须	备注

address	地址	否	
page	查询第几页	是	
page_count	一页数据条数	是	
device_code	设备编码	否	
user_code	用户编码	否	
username	用户名	否	
start_time	开始时间	否	13位时间戳
end_time	结束时间	否	13位时间戳

响应结果:

```
1  {
2    "data": [{
3        username:用户名S,
4        house_number:门牌号S,
5        device_code:设备编码S,
6        settle_flow:结算流量num,
7        total_flow:累计流量num,
8        last_month_flow:上月使用num,
9        balance:水表余额num,
10       battery_voltage:电池电压num,
11       status:设备状态S,
12       collected_at:抄收时间S,
13       latest_31_day_usage:最近31日日使用量num
14   }],
15   "total":数据总数
16  }
```

响应示例

```
1
2  {
3    "data":[
4      {
5        "username":"张三",
6        "house_number":"1号楼1单元101",
7        "device_code":"123456789",
```

```
 8          "settle_flow":100,
 9          "total_flow":1000,
10          "last_month_flow":100,
11          "balance":100,
12          "battery_voltage":100,
13          "status":"正常",
14          "collected_at":"1687709763000",
15          "latest_31_day_usage":100
16        },
17        {
18          "username":"张三",
19          "house_number":"1号楼1单元101",
20          "device_code":"123456789",
21          "settle_flow":100,
22          "total_flow":1000,
23          "last_month_flow":100,
24          "balance":100,
25          "battery_voltage":100,
26          "status":"正常",
27          "collected_at":"1687709763000",
28          "latest_31_day_usage":100
29        },
30        {
31          "username":"张三",
32          "house_number":"1号楼1单元101",
33          "device_code":"123456789",
34          "settle_flow":100,
35          "total_flow":1000,
36          "last_month_flow":100,
37          "balance":100,
38          "battery_voltage":100,
39          "status":"正常",
40          "collected_at":"1687709763000",
41          "latest_31_day_usage":100
42        },
43        ...
44
45      ],
46    "total":100
47  }
```

六、历史缴费模块

请求方式： GET

请求URL： `/hispay`

查询参数：

参数项	解释	必须	备注
address	地址	否	
page	查询第几页	是	
page_count	一页数据条数	是	
device_code	设备编码	否	
user_code	用户编码	否	
username	用户名	否	
start_time	开始时间	否	13位时间戳
end_time	结束时间	否	13位时间戳

响应结果：

```
1  {
2    "data": [{
3        user_name:用户名S,
4        device_code:设备编码S,
5        user_code:用户编码S,
6        address:详细地址S,
7        user_type:用户类型S,
8        price_mode:价格模式S,
9        payment_method:支付方式S,
10       account_balance:账户余额num,
11       amcount_recharged:充值金额num,
12       surplus_balance:结余num,
13       recharge_status:充值状态S,
14       collected_at:抄收时间S
15     }],
16     "total":数据总数
17  }
```

响应示例

```
1  {
2    "data":[
```

```json
    3        {
    4            "user_name":"Fish",
    5            "device_code":"123456789",
    6            "user_code":"123456789",
    7            "address":"广东省深圳市南山区",
    8            "user_type":"居民",
    9            "price_mode":"单一价格",
   10            "payment_method":"支付宝",
   11            "account_balance":100.00,
   12            "amcount_recharged":100.00,
   13            "surplus_balance":100.00,
   14            "recharge_status":"成功",
   15            "collected_at":"1687710959000"
   16        },
   17        {
   18            "user_name":"Fish",
   19            "device_code":"123456789",
   20            "user_code":"123456789",
   21            "address":"广东省深圳市南山区",
   22            "user_type":"居民",
   23            "price_mode":"单一价格",
   24            "payment_method":"支付宝",
   25            "account_balance":100.00,
   26            "amcount_recharged":100.00,
   27            "surplus_balance":100.00,
   28            "recharge_status":"成功",
   29            "collected_at":"1687710959000"
   30        },
   31        {
   32            "user_name":"Fish",
   33            "device_code":"123456789",
   34            "user_code":"123456789",
   35            "address":"广东省深圳市南山区",
   36            "user_type":"居民",
   37            "price_mode":"单一价格",
   38            "payment_method":"支付宝",
   39            "account_balance":100.00,
   40            "amcount_recharged":100.00,
   41            "surplus_balance":100.00,
   42            "recharge_status":"成功",
   43            "collected_at":"1687710959000"
   44        },
   45        ...
   46
   47    ],
   48    "total":100
   49 }
```