

# WIFI Socket 数据接口

## 通信接口方案：

- UDP:
  - 路由器模式
  - 独立模式

Router	Doraemon
Password	Doraemon
STA	Doraemon
Password	Doraemon
BroadcastPort	10000
SinglePort	10001

## 设备发现接口【OK】：

- BroadcastPort、SinglePort 均有效。
- 获取设备列表：
    - Request

```
{
  "Cmd" : "GetDeviceList"
}\r\n
```

■ Response

```
{
  "Status" : 0,
  "Device" : {
    "Id" : 1,
    "Type" : "SOCKET",
    "Name" : "智能插座",
    "Settings" : {
      "AP" : "Doraemon",
      "IP" : "192.168.1.1",
      "Port" : "10001"
    }
  }
}\r\n
```

## 开关控制接口【OK】：

- 获取开关状态

- Request

```
{  
  "Cmd" : "GetSwitchState"  
}\r\n
```

- Response

```
{  
  "Status" : 0,  
  "SwitchState" : false  
}\r\n
```

- 设置开关状态

- Request

```
{  
  "Cmd" : "SetSwitchState",  
  "SwitchState" : false  
}\r\n
```

- Response

```
{  
  "Status" : 0  
}\r\n
```

## 定时任务接口【OK】：

### 【可以建立多个定时任务】

#### ● 获取定时任务

##### ■ Request

```
{
  "Cmd" : "GetTimingTaskList"
}\r\n
```

##### ■ Response

```
{
  "Status" : 0,
  "TimingTaskList" : [
    {
      "Id" : 1,
      "Running" : true,
      "Open" : {
        "DateTime" : {
          "Hour" : 0,
          "Minute" : 0
        },
        "SwitchState" : "true"
      },
      "Close" : {
        "DateTime" : {
          "Hour" : 0,
          "Minute" : 59
        },
        "SwitchState" : "false"
      },
      "Loop" : {
        "Type" : true,
        "Day" : [ "Monday", "Tuesday", "Wednesday", "Thursday", "Friday" ]
      }
    }
  ]
}\r\n
```

#### ● 新建定时任务

##### ■ Request

```
{
  "Cmd" : "NewTimingTask",
  "TimingTask" : {
    "Running" : true,
    "Open" : {
      "DateTime" : {
        "Hour" : 0,
        "Minute" : 0
      },
      "SwitchState" : "true"
    },
    "Close" : {
      "DateTime" : {
```

```
        "Hour" : 0,
        "Minute" : 59
    },
    "SwitchState" : "false"
},
"Loop" : {
    "Type" : true,
    "Day" : [ "Monday", "Tuesday", "Wednesday", "Thursday", "Friday" ]
}
}
}}\r\n
```

■ Response

```
{
    "Status" : 0,
    "Id" : 1
}\r\n
```

● 启动定时任务

■ Request

```
{
    "Cmd" : "RunTimingTask",
    "Id" : 1
}\r\n
```

■ Response

```
{
    "Status" : 0
}\r\n
```

● 停止定时任务

■ Request

```
{
    "Cmd" : "StopTimingTask",
    "Id" : 1
}\r\n
```

■ Response

```
{
    "Status" : 0
}\r\n
```

● 删除定时任务

■ Request

```
{
    "Cmd" : "DeleteTimingTask",
    "Id" : 1
}\r\n
```

■ Response

```
{
    "Status" : 0
}\r\n
```

## 倒计时接口【OK】：

只能建立一个倒计时任务。

- 获取倒计时任务

- Request

```
{
  "Cmd" : "GetCountDownTaskList"
}\r\n
```

- Response

```
{
  "Status" : 0,
  "CountDownTaskList" : [
    {
      "CountDownMinute" : 60,
      "Running" : true,
      "SwitchState" : false
    }
  ]
}\r\n
```

- 新建倒计时任务

- Request

```
{
  "Cmd" : "NewCountDownTask",
  "CountDownTask" : {
    "CountDownMinute" : 60,
    "Running" : true,
    "SwitchState" : false
  }
}\r\n
```

- Response

```
{
  "Status" : 0,
  "Id" : 1
}\r\n
```

- 启动倒计时任务

- Request

```
{
  "Cmd" : "RunCountDownTask",
  "Id" : 1
}\r\n
```

- Response

```
{
  "Status" : 0
}\r\n
```

- 停止定时任务

- Request

```
{
  "Cmd" : "StopCountDownTask",
  "Id" : 1
}\r\n
```

■ Response

```
{  
  "Status" : 0  
}\r\n
```

● 删除倒计时任务

■ Request

```
{  
  "Cmd" : "DeleteCountDownTask",  
  "Id" : 1  
}\r\n
```

■ Response

```
{  
  "Status" : 0  
}\r\n
```

## 设备设置接口【OK】：

- 设置路由器名称&密码

- Request

```
{  
  "Cmd" : "SetRouterSettings",  
  "Name" : "Doraemon",  
  "Password" : "Doraemon"  
}\r\n
```

- Response

```
{  
  "Status" : 0  
}\r\n
```

- 设置 STA 名称&密码

- Request

```
{  
  "Cmd" : "SetSTASettings",  
  "Name" : "Doraemon",  
  "Password" : "Doraemon"  
}\r\n
```

- Response

```
{  
  "Status" : 0  
}\r\n
```

- 设置设备名称

- Request

```
{  
  "Cmd" : "SetDeviceName",  
  "DeviceName" : "智能插座"  
}\r\n
```

- Response

```
{  
  "Status" : 0  
}\r\n
```