

# 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】：

- 配置文件 Device.json:

```
{
  "Id" : 1,
  "Name" : "智能插座",
  "Type" : "WIFISOCKET",
  "Settings" : {
    "RouterSettings" : {
      "Port" : "10001",
      "IP" : "192.168.1.1",
      "AP" : "sanxingsushe",
      "Password" : ""
    },
    "STASettings" : {
      "Port" : "10001",
      "IP" : "192.168.1.1",
      "AP" : "Doraemon",
      "Passowrd" : "Doraemon"
    }
  }
}
```

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

- Request

```
{
  "Cmd" : "GetDeviceList"
}
```

- Response

```
{
  "Status" : 200,
```

```
"Device" : {  
  "Id" : 1,  
  "Type" : "SOCKET",  
  "Name" : "智能插座",  
  "Settings" : {  
    "RouterSettings" : {  
      "Port" : "10001",  
      "IP" : "192.168.1.1",  
      "AP" : "Doraemon"  
    },  
    "STASettings" : {  
      "Port" : "10001",  
      "IP" : "192.168.1.1",  
      "AP" : "Doraemon"  
    }  
  }  
}
```

## 开关控制接口【OK】：

- 配置文件 SwitchState.json:

```
{  
  "SwitchState" : false  
}
```

- 获取开关状态

- Request

```
{  
  "Cmd" : "GetSwitchState"  
}
```

- Response

```
{  
  "Status" : 200,  
  "SwitchState" : false  
}
```

- 设置开关状态

- Request

```
{  
  "Cmd" : "SetSwitchState",  
  "SwitchState" : false  
}
```

- Response

```
{  
  "Status" : 200  
}
```

## 定时任务接口【OK】：

可以建立多个（最多五个）定时任务。

- 配置文件 Timing.json:

```
{
  "TimingTaskList": [
    {
      "Id": 1,
      "Running": true,
      "Open": {
        "Available": true,
        "TimeStamp": 0,
        "SwitchState": true
      },
      "Close": {
        "Available": true,
        "TimeStamp": 0,
        "SwitchState": false
      },
      "Loop": {
        "IsLoop": true,
        "LoopDay": [ 1, 2, 3, 4, 5, 6, 7 ]
      }
    },
    {
      "Id": 2,
      "Running": true,
      "Open": {
        "Available": true,
        "TimeStamp": 0,
        "SwitchState": true
      },
      "Close": {
        "Available": true,
        "TimeStamp": 0,
        "SwitchState": false
      },
      "Loop": {
        "IsLoop": true,
        "LoopDay": [ 1, 2, 3, 4, 5, 6, 7 ]
      }
    },
    {
      "Id": 3,
      "Running": true,
      "Open": {
        "Available": true,
        "TimeStamp": 0,
        "SwitchState": true
      },
      "Close": {
        "Available": true,
        "TimeStamp": 0,
        "SwitchState": false
      }
    }
  ]
}
```

```

    },
    "Loop" : {
        "IsLoop" : true,
        "LoopDay" : [ 1, 2, 3, 4, 5, 6, 7 ]
    }
},
{
    "Id" : 4,
    "Running" : true,
    "Open" : {
        "Available" : true,
        "TimeStamp" : 0,
        "SwitchState" : true
    },
    "Close" : {
        "Available" : true,
        "TimeStamp" : 0,
        "SwitchState" : false
    },
    "Loop" : {
        "IsLoop" : true,
        "LoopDay" : [ 1, 2, 3, 4, 5, 6, 7 ]
    }
},
{
    "Id" : 5,
    "Running" : true,
    "Open" : {
        "Available" : true,
        "TimeStamp" : 0,
        "SwitchState" : true
    },
    "Close" : {
        "Available" : true,
        "TimeStamp" : 0,
        "SwitchState" : false
    },
    "Loop" : {
        "IsLoop" : true,
        "LoopDay" : [ 1, 2, 3, 4, 5, 6, 7 ]
    }
}
]
}

```

## ● 获取定时任务

### ■ Request

```

{
    "Cmd" : "GetTimingTaskList"
}

```

### ■ Response

```

{
    "Status" : 200,
    "TimingTaskList" : [
        {
            "Id" : 1,
            "Running" : true,

```

```

    "Open" : {
      "Available" : true,
      "TimeStamp" : 0,
      "SwitchState" : true
    },
    "Close" : {
      "Available" : true,
      "TimeStamp" : 0,
      "SwitchState" : false
    },
    "Loop" : {
      "IsLoop" : true,
      "LoopDay" : [ 1, 2, 3, 4, 5, 6, 7 ]
    }
  },
  {
    "Id" : 2,
    "Running" : true,
    "Open" : {
      "Available" : true,
      "TimeStamp" : 0,
      "SwitchState" : true
    },
    "Close" : {
      "Available" : true,
      "TimeStamp" : 0,
      "SwitchState" : false
    },
    "Loop" : {
      "IsLoop" : true,
      "LoopDay" : [ 1, 2, 3, 4, 5, 6, 7 ]
    }
  },
  {
    "Id" : 3,
    "Running" : true,
    "Open" : {
      "Available" : true,
      "TimeStamp" : 0,
      "SwitchState" : true
    },
    "Close" : {
      "Available" : true,
      "TimeStamp" : 0,
      "SwitchState" : false
    },
    "Loop" : {
      "IsLoop" : true,
      "LoopDay" : [ 1, 2, 3, 4, 5, 6, 7 ]
    }
  },
  {
    "Id" : 4,
    "Running" : true,
    "Open" : {
      "Available" : true,
      "TimeStamp" : 0,

```

```

        "SwitchState" : true
    },
    "Close" : {
        "Available" : true,
        "TimeStamp" : 0,
        "SwitchState" : false
    },
    "Loop" : {
        "IsLoop" : true,
        "LoopDay" : [ 1, 2, 3, 4, 5, 6, 7 ]
    }
},
{
    "Id" : 5,
    "Running" : true,
    "Open" : {
        "Available" : true,
        "TimeStamp" : 0,
        "SwitchState" : true
    },
    "Close" : {
        "Available" : true,
        "TimeStamp" : 0,
        "SwitchState" : false
    },
    "Loop" : {
        "IsLoop" : true,
        "LoopDay" : [ 1, 2, 3, 4, 5, 6, 7 ]
    }
}
]
}

```

## ● 设置定时任务

### ■ Request

```

{
    "Cmd" : "SetTimingTaskItem",
    "TimingTask" : {
        "Id" : 1,
        "Running" : true,
        "Open" : {
            "Available" : true,
            "TimeStamp" : 0,
            "SwitchState" : true
        },
        "Close" : {
            "Available" : true,
            "TimeStamp" : 0,
            "SwitchState" : false
        },
        "Loop" : {
            "IsLoop" : true,
            "LoopDay" : [ 1, 2, 3, 4, 5, 6, 7 ]
        }
    }
}

```

■ Response

```
{  
  "Status" : 200  
}
```



## 倒计时接口【OK】：

只能建立一个倒计时任务。

- 倒计时配置文件 Countdown.json:

```
{
  "Running" : true,
  "TimeStamp" : 0,
  "Minutes" : 60,
  "SwitchState" : false
}
```

- 获取倒计时任务

### ■ Request

```
{
  "Cmd" : "GetCountDownTask"
}
```

### ■ Response

```
{
  "Status" : 200,
  "CountDownTask" : {
    "Running" : true,
    "Minutes" : 60,
    "SwitchState" : false
  }
}
```

- 设置倒计时任务

### ■ Request

```
{
  "Cmd" : "SetCountDownTask",
  "CountDownTask" : {
    "Running" : true,
    "Minutes" : 60,
    "SwitchState" : false
  }
}
```

### ■ Response

```
{
  "Status" : 200
}
```

## 设备设置接口【OK】：

- 设置路由器名称&密码

- Request

```
{  
  "Cmd" : "SetRouterSettings",  
  "Name" : "Doraemon",  
  "Password" : "Doraemon"  
}
```

- Response

```
{  
  "Status" : 200  
}
```

- 设置 STA 名称&密码

- Request

```
{  
  "Cmd" : "SetSTASettings",  
  "Name" : "Doraemon",  
  "Password" : "Doraemon"  
}
```

- Response

```
{  
  "Status" : 200  
}
```

- 设置设备名称

- Request

```
{  
  "Cmd" : "SetDeviceName",  
  "Name" : "智能插座"  
}
```

- Response

```
{  
  "Status" : 200  
}
```

- 设置系统时间

- Request

```
{  
  "Cmd" : "SetCurrentTime",  
  "TimeStamp" : 0  
}
```

- Response

```
{  
  "Status" : 200  
}
```