

# 概要说明文档

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## 客户端

客户端通过发布"client\_conversation"主题向服务器发送数据

客户端打开即连接服务器，并订阅主题：client\_id+"\_conversation"，服务器通过此主题来发送登录，修改密码，传感器等所有信息

### 登录

客户端登录连接服务器

```
{
  "type": "login",
  "client_id": "a1324562312",
  "msg": {
    "username": "aaa",
    "password": "123456"
  }
}
```

服务器返回json数据

login success

```
{
  "type": "login_return",
  "status": "ok",
  "gateway_id": "123456"
}
```

login failed

```
{
  "type": "login_return",
  "status": "error"
}
```

### 修改密码

用户修改密码

```
{
  "type": "modify",
  "client_id": "a1324562312",
  "msg": {
    "username": "aaa",
    "password": "123456",
    "newpassword": "234567"
  }
}
```

服务器返回数据

modify success

```
{
  "type": "modify_return",
  "client_id": "a1324562312",
  "status": "ok"
}
```

modify failed

```
{
  "type": "modify_return",
  "client_id": "a1324562312",
  "status": "error"
}
```

家居控制

数据为单个设备控制的json数据:

```
{
  "type": "gateway_control",
  "client_id": "a1324562312",
  "fan": "20"
}
或
{
  "type": "gateway_control",
  "client_id": "a1324562312",
  "light0": "on"
}
或
{
  "type": "gateway_control",
  "client_id": "a1324562312",
  "light1": "off"
}
```

接收家居信息

数据格式(json):

```
{
  "type": "dashboard",
  "gateway_id": "123761354321",
  "sensors_value": {
    "time_stamp": "2019/06/15",
    "temperature": "26.3",
    "humidity": "60",
    "fan": "69",
    "beam": "56",
    "light1": "on",
    "light2": "off"
  }
}
```

## 家居网关

开机主动连接服务器，发布主题: "gateway\_conversation"，用于接收所有服务器发送给家庭网关的信息

### 订阅主题

订阅主题: gateway\_id+"\_conversation"，用于接收所有服务器发送给家庭网关的信息

例: (server-->gateway)

```
{
  "type": "client_control",
  "fan": "20"
}
或
{
  "type": "client_control",
  "light1": "on"
}
或
{
  "type": "client_control",
  "light1": "off"
}
```

### 发送家居信息

数据格式(json):

```
{
  "type": "dashboard",
  "gateway_id": "123761354321",
  "sensors_value": {
    "temperature": "26.3",
    "humidity": "60",
    "fan": "69",
    "beam": "56",
    "light1": "on",
    "light2": "off"
  }
}
```

## 服务器

服务器订阅主题: "client\_conversation"，用于接收所有客户端发送的数据

服务器订阅主题: "gateway\_conversation"，用于接收所有家庭网关发送的数据

客户端-->服务器

登录，修改密码等

控制家居

家庭网关-->服务器

家居信息

## 数据库

table: gateway\_user 主键: gateway\_id

gateway_id	username
12346asd435	3as4df321z3

table: user\_info 主键: username password=MD5(real\_pwd)

username	password
aaa	cshjdbvfmxbz

table: client\_user 主键: client\_id

client_id	username
12346513213	aaa
jhSDGFjhxd	aaa

table: gateway\_info 主键: time\_stamp

time_stamp	gateway_id	temperature_value	humidity_value	fan_value	beam_value	light1_value	light2_value
2019/06/13	12346asd435	26.4	60	56	83	ture	false