网关软件需求分析

软件运行于linux平台，需要在ubuntu，raspberry上测试

配置文件保存在我们指定的文件夹下，以方便后续开发前端页面对其进行编辑

树莓派 GPIO UART转485已经测试成功

配置文件若有可能使用excel格式

交付源码与注释，并提供代码简单交接与测试环境支持，功能测试基本成功便验收

MQTT服务器配置文件

网址：situtech.net

端口：1883

用户名:admin

密码：\*\*\*\*\*\*\*\*

MQTT到达目录 home/mqtt/devices/up/XXXXX

XXXXX代表设备编号 ，可以编辑

485配置文件：

9600

1

None

轮询规则：

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 变量名称 | 站地址 | 寄存器地址 | 读指令 | 数据类型（默认int） |
| Var1 | 1 | 2 | 03 | Var |
| Var2 | 1 | 2 | 04 | Var |
| Var3 | 1 | 2 | 03 | Var |
| Var4 | 1 | 2 | 03 | Var |
| Var5 | 1 | 2 | 03 | Var |
| Var6 | 1 | 2 | 03 | Var |
| Var7 | 1 | 2 | 03 | Var |
| Var8 | 1 | 2 | 03 | Var |
| Var9 | 1 | 2 | 04 | Var |
| Var10 | 1 | 2 | 03 | Var |
| Var11 | 1 | 2 | 03 | Var |
| Var12 | 1 | 2 | 03 | Var |
| Var13 | 1 | 2 | 03 | Var |
| Var14 | 1 | 2 | 03 | Var |

以此往下类推，最多不超过300个数据

Json数据格式

由我们自已定义，你只需要将A,B,C等进行替换

比如:

{"AC":{"Remote":{"Type":"YVAG18","UUID":"1","Online":var1,"Children":7,"A":var1,"B":1,"C":110,"D":470,"E":70,"F":449,"G":0,"H":0,"I":0,"J":1,"K":30,"L":20,"M":0,"N":1,"O":1,"P":0,"Q":222,"R":202,"S":171,"T":0},"Touch-A":{"Type":"T8600","UUID":"1.1","Online":1,"a":5,"b":245,"c":2,"d":5,"e":var2,"f":1,"g":180},"Touch-B":{"Type":"T8600","UUID":"1.2","Online":0,"a":0,"b":0,"c":0,"d":0,"e":0,"f":0,"g":0},"Touch-C":{"Type":"T8600","UUID":"1.3","Online":0,"a":0,"b":0,"c":0,"d":0,"e":0,"f":0,"g":0},"Touch-D":{"Type":"T8600","UUID":"1.4","Online":0,"a":0,"b":0,"c":0,"d":0,"e":0,"f":0,"g":0},"Touch-E":{"Type":"T8600","UUID":"1.5","Online":0,"a":0,"b":0,"c":0,"d":0,"e":0,"f":0,"g":0},"Touch-F":{"Type":"T8600","UUID":"1.6","Online":0,"a":0,"b":0,"c":0,"d":0,"e":0,"f":0,"g":0},"Touch-G":{"Type":"T8600","UUID":"1.7","Online":0,"a":0,"b":0,"c":0,"d":0,"e":0,"f":0,"g":0}},"ENV":{"Type":"Env","UUID":"2","Online":0,"a":0,"b":0,"c":0,"d":0},"WE":{"Type":"WE","UUID":"3","Online":0,"a":0,"b":0},"Air":{"Type":"Air","UUID":"4","Online":0,"a":0,"b":0,"c":0,"d":0,"e":0,"f":0,"g":0,"h":0,"i":0,"j":0,"k":0,"l":0,"m":0,"n":0,"o":0,"p":0,"q":0,"r":0,"s":0,"t":0,"u":0},"Heating":{"Type":"Heating","UUID":"5","Online":0,"a":0,"b":0,"c":0,"d":0,"e":0,"f":0,"g":0,"h":0,"i":0}}

此json文件中的数值部分我们自由使用A,B,C等进行替换

指令下发：

收到：从home/mqtt/devices/down/XXXXX订阅

{“on/off”:0}

你按一个指令表格进行操作，比如

按这个表格，将数值按地址要求写到var

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 变量名称 | 站地址 | *指令类型* | 寄存器地址 | 数据类型（默认int） |
| ON/OFF | 1 | *06* | 2 | Var |
| B | 1 | *06* | 2 | Var |
| C | 1 | *06* | 2 | Var |
| D | 1 | *06* | 2 | Var |
| E | 1 | *06* | 2 | Var |