# 主机及从控机操作接口说明

# 一、MainMachine

## 1.1主机开机

GET /main\_machine/power\_on

返回

{

"message": "OK",

"result": null

}

## 1.2参数初始化

GET /main\_machine/init\_param?highest\_temper=30&lowest\_temper=16&low\_speed\_fee=0.75&middle\_speed\_fee=1.0&high\_speed\_fee=1.5&default\_temper=24&default\_speed=2&mode=1

|  |  |  |
| --- | --- | --- |
| highest\_temper | float | 可设置最高温度 |
| lowest\_temper | float | 可设置最低温度 |
| low\_speed\_fee | float | 低风速费率 |
| middle\_speed\_fee | float | 中风速费率 |
| high\_speed\_fee | float | 高风速费率 |
| default\_temper | float | 默认温度 |
| default\_speed | int | 0: 低风速  1: 中风速  2: 高风速 |
| mode | int | 0: 制冷  1: 制热 |

返回

{

"message": "OK",

"result": null

}

## 1.3开始执行

GET /main\_machine/start\_up

返回

{

"message": "OK",

"result": null

}

## 1.4监视空调

客户端轮询服务端，获取房间状态

GET /main\_machine/check\_room\_state

返回：

{

"message": "OK",

"result": [

{

"room\_id": "309c",

"current\_temper": 20.1,

"speed": 1,

"mode": 1,

"fee": 10.5,

"fee\_rate": 1.5, // 费率

"status": "未入住", // "未入住", "关机", "服务中", "等待中", "待机"

"service\_time": 129, // 整形, 以秒为单位

"target\_temper": 26

},

{

"room\_id": "310c",

"current\_temper": 20.1,

"speed": 1,

"mode": 1,

"fee": 10.5,

"fee\_rate": 1.5, // 费率

"status": "未入住", // "未入住", "关机", "服务中", "等待中", "待机"

"service\_time": 129, // 整形, 以秒为单位

"target\_temper": 26

},

...

]

}

## 1.5关机

GET /main\_machine/close

返回

{

"message": "OK",

"result": null

}

# 二、slave

## 2.1 入住

GET /slave/check\_in?room\_id=xxx

|  |  |  |
| --- | --- | --- |
| room\_id | string | 房间号，如309c、310c等 |

返回

{

"message": "OK",

"result": null

}

## 2.2 请求开机/回温后重新开机

GET /slave/request\_on?room\_id=xxx&current\_temper=xxx

|  |  |  |
| --- | --- | --- |
| room\_id | string | 房间号，如309c、310c等 |
| current\_temper | float | 房间当前温度 |

如果是开机，则按照默认温度和默认风速创建服务

如果是回温后重新开机，则按照先前设置的目标温度和目标风速创建服务

{

"message": "OK",

"result": {

"room\_id": "309c",

"current\_temper": 20.1,

"speed": 1,

"fee": 10.5,

"fee\_rate": 1.5, // 费率

"status": "未入住", // "未入住", "关机", "服务中", "等待中", "待机"

"mode": 0,

"service\_time": 129, // 整形, 以秒为单位

"target\_temper": 26,

"highest\_temper": 30,

"lowest\_temper": 16,

}

}

## 2.3 请求关机

GET /slave/request\_off?room\_id=xxx

返回

{

"message": "OK",

"result": null

}

## 2.4 请求改变温度

GET /slave/change\_temper?room\_id=xxx&target\_temper=xxx

|  |  |  |
| --- | --- | --- |
| room\_id | string | 房间号，如309c、310c等 |
| target\_temper | float | 房间目标温度 |

返回

{

"message": "OK",

"result": null

}

## 2.5 请求改变风速

GET /slave/change\_speed?room\_id=xxx&speed=xxx

|  |  |  |
| --- | --- | --- |
| room\_id | string | 房间号，如309c、310c等 |
| speed | int | 设置风速  0: 低风速  1: 中风速  2: 高风速 |

返回

{

"message": "OK",

"result": null

}

## 2.6 请求费用（及房间状态，用来作为回温依据）

GET /slave/request\_fee?room\_id=xxx

返回

{

"message": "OK",

"result": {

"room\_id": "309c",

"current\_temper": 20.1,

"speed": 1,

"mode": 1,

"fee": 10.5,

"fee\_rate": 1.5, // 费率

"status": "未入住", // "未入住", "关机", "服务中", "等待中", "待机"

"service\_time": 129, // 整形, 以秒为单位

"target\_temper": 26,

"highest\_temper": 30,

"lowest\_temper": 16,

}

}

## 2.7 退房

GET /slave/check\_out?room\_id=xxx

|  |  |  |
| --- | --- | --- |
| room\_id | string | 房间号，如309c、310c等 |

返回

{

"message": "OK",

"result": null

}

# 三.日志系统

## 3.1 查询报表

GET /logger/query\_report?qtype=day&room\_id=309c&date=2019-05-22

|  |  |  |
| --- | --- | --- |
| qtype | string | 查询的报表类型  day: 日报表  week: 周报表  month: 月报表  year: 年报表 |
| room\_id | string | 房间号 |
| date | string | 查询日期  如果是 周/月/年 报表，则查询该日期所在的 自然周/月/年 |

返回

{

"message": "OK",

"result": {

"room\_id": "309c",

"on\_off\_times": 4,

"service\_time": 129, // 整形, 以秒为单位

"fee": 10.5,

"dispatch\_times": 102, // 调度次数

"rdr\_number": 21, // 详单条目数

"change\_temp\_times": 10, //改变温度次数

"change\_speed\_times": 26 //改变风速次数

}

}

## 3.2 打印报表

GET /logger/print\_report?qtype=day&room\_id=309c&date=2019-05-22

|  |  |  |
| --- | --- | --- |
| qtype | string | 查询的报表类型  day: 日报表  week: 周报表  month: 月报表  year: 年报表 |
| room\_id | string | 房间号 |
| date | string | 查询日期  如果是 周/月/年 报表，则查询该日期所在的 自然周/月/年 |

返回

文件，文件格式各服务端自行实现

## 3.3 查询账单

GET /logger/query\_invoice?room\_id=309c

|  |  |  |
| --- | --- | --- |
| room\_id | string | 房间号 |

返回

{

"message":"OK",

"result": {

"room\_id":"309c",

"check\_in\_time":" 2015-05-18 19:04:32", //格式： YYYY-MM-DD HH:mm:ss

"check\_out\_time":" 2015-05-19 19:04:32",

"fee":23.5

}

}

## 3.4 打印账单

GET /logger/print\_invoice?room\_id=309c

|  |  |  |
| --- | --- | --- |
| room\_id | string | 房间号 |

返回

文件，文件格式各服务端自行实现

## 3.5 查询详单

GET /logger/query\_rdr?room\_id=309c

|  |  |  |
| --- | --- | --- |
| room\_id | string | 房间号 |

返回

json

{

"message": "OK",

"result": [

{

"room\_id": "309c",

//格式： YYYY-MM-DD HH:mm:ss

"start\_time": " 2019-05-18 18:49:05",

"end\_time": "2019-05-18 18:50:10",

"speed": 2,

"fee\_rate": 1.0,

"fee": 20

},

...

]

}

## 3.6 打印详单

GET /logger/print\_rdr?room\_id=309c

|  |  |  |
| --- | --- | --- |
| room\_id | string | 房间号 |

返回

文件，文件格式各服务端自行实现