【bochiot-网关通信文档】

修订记录

|  |  |  |  |
| --- | --- | --- | --- |
| 日期 | 修订版本 | 修改描述 | 作者 |
| 2018-05-03 | 新建 |  |  |
| 2018-07-14 | V1.1 | 增加发卡通信2.5,2.6 | jking |
| 2018-07-22 | V1.1 | 2.5,2.6,2.7增加字段ekey\_type | jking |
| 2018-08-04 | V1.2 | 2.1注册修改为心跳 | jking |
| 2018-08-04 | V1.2 | 2.3,2.5,2.7,2.6增加字段requestid | jking |
| 2018-09-07 | V1.3 | 2.10,2.11 | jking |
| 2018-09-14 | V1.4 | 2.12 | cmt |
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# 说明

**通信数据包格式(cloudserver-gateway)**

**(gatewaycloudserver)**

|  |  |  |
| --- | --- | --- |
| 包头标识符 | packetStatus(1byte) | payload\_len(4byte) |
| payload Data |  |  |
| crc校验(4byte) |  |  |

包头标识符：”HTTP-JSON-BOCHIOT”

同样的包，在最后一包添加 0xb0,0xc0

packetStatus值说明:

|  |  |
| --- | --- |
| 0x20 | 开始发送（第一包数据） |
| 0x21 | 正在发送中（中间数据包） |
| 0x22 | 终止发送（最后一包数据） |
| 0x23 | 开始与终止（只有一包数据） |

# 资源接口

## 网关向云服务器的心跳(网关->服务)

请求:

|  |  |  |
| --- | --- | --- |
| 参数 | 类型 | 备注 |
| gw\_mac | String | 网关ＩＤ |

{

"cmd": "gw\_register",

"swm\_gateway\_info": {

"gw\_mac": "1aaa01000001",

"gw\_ip\_addr": "192.168.0.104"

}

}

返回：

{

"cmd": "gw\_heartbeat",

"systemTime": "2012 - 12 - 12 12: 12: 12",

"statuscode": 0

}

## 锁电量上报协议(网关->服务)

请求:

{

"cmd": "d2s\_battery",

"gw\_mac": "1aaa01000001",

"device\_info": {

"device\_mac": "192.168.0.104",

"battery": 0

}

}

## 开门指令(服务->网关)

请求:

{

"cmd": " dev\_ctrl ",

"requestid": "",

"device\_info": {

"device\_mac": "192.168.0.104",

"switchStatus": 0,

}

"statuscode ": 0

}

返回：

{

"cmd": " d2s\_status ",

"requestid": "", //与请求的对应

" gw\_mac ": "192.168.0.104",

"device\_info": {

"device\_mac": "192.168.0.104",

"switchStatus": 0,

}

"statuscode ": 0

}

## 网关向云服务器请求所有节点(服务->网关)

请求:

{

"cmd": "d2s\_request\_devices",

"swm\_gateway\_info": {

"gw\_mac": "12345679010"

}

}

返回：

{

"cmd": "d2s\_request\_devices",

"swm\_gateway\_info": {

"gw\_mac": "12345679010"

},

"device\_info": [{

"device\_mac": "111111111111",

"regStatus": 1

},

{

"device\_mac": "111111111112",

"regStatus": 0

}

],

"statuscode": 0

}

## 下发卡号(密码)（cloudserver->gateway）

发送：

{

"cmd": " dev\_single\_password\_setting",

"dev\_mac": "",

"requestid": "",

"ekey\_type": 0/1, //0发卡，1密码

"ekey\_value": "",

"expiry\_date": "", //2018-01-01 10:10:10

"statuscode": ""

}

接收：

{

"cmd": " dev\_single\_password\_setting",

"gw\_mac": "",

"requestid": "", //与请求的对应

"device\_info": {

"ekey\_value": "",

"ekey\_type": 0/1, //0发卡，1密码

"device\_mac": "AAAAAAAAAAAA",

"statuscode ": 0

}

}

//NESTLAB2018/07/09

## 上传开门记录（gateway->cloudserver）

//NESTLAB

发送：

{

"cmd": " openlock\_record\_return",

"gw\_mac": "",

"requestid": "", //由设备节点生成

"device\_mac": "",

"openlock\_cardnumber": "", //卡号(也就是ekey\_value)

"ekey\_type": 0/1, //0发卡，1密码

"openlock\_status": "", //开门状态

"openlock\_time": "" //开门时间

}

接收：

{

"cmd": " openlock\_record\_return ",

"device\_mac": "",

"requestid": "", //与请求的对应

"openlock\_time": "",

"statuscode": ""

}

## 取消卡号(密码开门（cloudserver->gateway）

发送：

{

"cmd": " dev\_single\_password\_cancel",

"dev\_mac": "",

"requestid": "",

"ekey\_type": 0/1, //0发卡，1密码

"ekey\_value": "",

"statuscode": ""

}

接收：

{

"cmd": " dev\_single\_password\_ cancel",

"gw\_mac": "",

"requestid": "", //与请求的对应

"device\_info": {

"ekey\_value": "",

"ekey\_type": 0/1, //0发卡，1密码

"device\_mac": "AAAAAAAAAAAA",

"statuscode ": 0

}

}

## 节点复位指令(服务->网关)

请求

{

"cmd": "dev\_reset",

"requestid": "",

"device\_info": {

"device\_mac": "123456789"

}

"statuscode ": 0

}

返回：

{

"cmd": "dev\_reset ",

"requestid": "",

"device\_info": {

"device\_mac": "192.168.0.104",

"reset\_status": 0 //0失败，１成功

}

}

## 门禁状态上报(网关->服务)

请求

{

"cmd": "door\_guard\_status",

"requestid": "",

"device\_info": {

"device\_mac": "123456789",

"status":0 //0关，１开

}

}

返回：

{

"cmd": "door\_guard\_status",

"requestid": "",

"device\_info": {

"device\_mac": "123456789",

}

}

## 门禁/节点常开/常闭设置命令(服务->网关)

请求

{

"cmd": "dev\_nonc\_set",

"requestid": "",

"device\_info": {

"device\_mac": "123456789",

"status":0 //0关，1开, 2 正常状态

}

}

返回：

{

"cmd": " dev\_nonc\_set",

"requestid": "",

"device\_info": {

"device\_mac": "123456789",

"status":0 //0关，1开, 2 正常状态

"set\_status":0 //0失败，１成功

}

}

## 节点注册(网关->服务)

请求

{

"cmd": "cmd\_bind\_gw",

" gw\_mac": "123456789",

"requestid": "",

"device\_info": {

"device\_mac": "123456789",

}

}

返回：

{

"cmd": "cmd\_bind\_gw ",

" gw\_mac": "123456789",

"requestid": "",

"device\_info": {

"device\_mac": "123456789",

"status":0 //1成功，0失败

}

}

**2.12、测试模式**

请求

{

"cmd": "cmd\_set\_test\_mode",

" gw\_mac": "123456789",

“requestid”: “1234567890123”

"device\_info": {

"device\_mac": "123456789",

”tx\_rate“ ：8 该节点在测试模式下的发包率（每唤醒多少次发送一次数据）

“tx\_wait” ：10 进入测试模式后，初次发包需等待的唤醒周期数

}

}

返回：

{

"cmd": "cmd\_set\_test\_mode",

" gw\_mac": "123456789",

“requestid”: “1234567890123”

"device\_info": {

"device\_mac": "123456789",

"status":0 //1成功，0失败

}

}

**2.12、设置设备正常模式**

请求

{

"cmd": "cmd\_set\_normal\_mode",

" gw\_mac": "123456789",

“requestid”: “1234567890123”

"device\_info": {

"device\_mac": "123456789"

}

}

返回：

{

"cmd": "cmd\_set\_normal\_mode",

" gw\_mac": "123456789",

“requestid”: “1234567890123”

"device\_info": {

"device\_mac": "123456789",

"status":0 //1成功，0失败

}

}