


```
{
  "_type": "ScreenshotBySize",
  "width": -1,
  "height": -1,
  "quality": 100,
  "scale": 100,
  "sendTo": "joey-cardsystem",
  "id": "5ec4cf666dc7f1a3156097ed"
}
```

返回数据

```
// 请求成功
{
  "_type": "DataCallback",
  "image": null, //返回的截图地址页面展示`data:image/jpeg;base64`+data.image, 无截图时返回null
  "commandId": "5ebcef85fff26f9f2e9f0cd6",
  "cardId": "e30-b19-40033",
}
```

2、屏幕开关

手动设置屏幕开关

发送数据

```
{
  "_type": "SwitchScreen",
  "turnOn":true, //boolean; true 开屏  false关屏
  "id": "5ec4d7b8f44de6ae5e2b56f0"
}
```

返回数据

```
// 请求成功
{
  "_type": "Success",
  "cardId": "e30-b19-40033",
  "commandId": "5ec4d7b8f44de6ae5e2b56f0",
  "_cardId": "e30-b19-40033"
}
```

查询屏幕开关情况

发送数据

```
{
  "_type": "GetTaskToKeepScreenOn",
  "id": "5ec4d7b8f44de6ae5e2b56f0"
}
```

返回数据

```
// 请求成功
{"_type": "DataCallback",
"cardId": "e30-b19-40033",
"commandId": "5ec4d7b8f44de6ae5e2b56f0"
"task": {
  "createBy": "check",
  "createDate": "2020-04-23T08:06:43.448Z",
  "name": "0423", // 定时任务名
  "schedules": [{
    "dateType": "Range", // Range代表指定日期, All代表无限制
    "endDate": "2020-04-30", //结束日期
    "endTime": "17:30", //结束时间
    "filterType": "Week", // None代表没有星期限制, week代表有星期限制
    "monthFilter": [],
    "startDate": "2020-04-23", //开始日期
    "startTime": "08:30", //开始时间
    "timeType": "Range", // Range代表指定时间, All代表无限制
    "weekFilter": [1,2,3,4,5] //0`6, 0代表星期日 6代表星期六
  }]
}, // 无定时任务时空
```

发送定时开关屏任务

发送数据

```
{
  "cardId": "e30-b19-40033",
  "_type": "TaskKeepingScreenOn",
  "id": "5ea14c930e331f366eafffa2",
  "task": {
    "createBy": "check",
    "createDate": "2020-04-23T08:06:43.448Z",
    "dateCreated": "2020-04-23T08:06:43.448Z",
    "id": "5ea14c930e331f366eafffa2",
    "lng": "zh-CN",
    "name": "0423",
    "createBy": "check",
    "createDate": "2020-04-23T08:06:43.448Z",
    "dateCreated": "2020-04-23T08:06:43.448Z",
    "id": "5ea14c930e331f366eafffa2",
    "lng": "zh-CN",
    "name": "0423",
    "schedules": [{
      "dateType": "Range", // Range代表指定日期, All代表无限制
      "endDate": "2020-04-30", //结束日期
      "endTime": "17:30", //结束时间
      "filterType": "Week", // None代表没有星期限制, Week代表有星期限制
      "monthFilter": [],
      "startDate": "2020-04-23", //开始日期
      "startTime": "08:30", //开始时间
      "timeType": "Range", // Range代表指定时间, All代表无限制
      "weekFilter": [1,2,3,4,5]//0`6, 0代表星期日 6代表星期六
    }]
  },
}
```

返回数据

```
// 请求成功
{
  "_type": "Success",
  "cardId": "e30-b19-40033",
  "commandId": "5ea14c930e331f366eafffa2",
}
```

3、屏幕亮度

设置灵敏度和最小亮度

发送数据

```
{
  "minBrightness": 1, // 最小亮度
  "sensitivity": 50, //灵敏度0到100
  "_type": "SetAutoBrightness"
  "sendTo": "joey-cardsystem",
  "id": "5ec4d1d1801daf892447ade7"
}
```

返回数据

```
// 请求成功
{
  "cardId": "e30-b19-40033",
  "_type": "Success",
  "commandId": "5ebcf586fff26f9f2e9f7b0e",
  "_cardId": "y10-116-01576"
}
```

查询灵敏度和最小亮度

发送数据

```
{
  "_type": "GetAutoBrightness",
  "sendTo": "joey-cardsystem",
  "id": "5ec4d236801daf892447ade8"
}
```

返回数据

```
// 请求成功
{
  "_type": "DataCallback",
  "sensitivity": 50,
  "minBrightness": 1,
  "commandId": "5ec4d236801daf892447ade8",
  "cardId": "e30-b19-40034"
}
```

手动设置屏幕亮度

发送数据

```
{
  "brightness": 8,
  "_type": "SetBrightness",
}
```

返回数据

```
// 请求成功
{
  "_type": "Success",
  "cardId": "e30-b19-40033",
  "commandId": "5ebcf724fff26f9f2e9f9f84",
}
```

发送定时亮度任务

发送数据

```
{
  "_type": "TaskSettingBrightness",
  "id": "5ec4d1d1801daf892447ade7",
  "task": {
    "createBy": "lucky2",
    "createDate": "2019-11-14T01:21:50.907Z",
    "dateCreated": "2019-11-14T01:21:50.907Z",
    "defaultBrightness": 5, // 默认亮度
    "items": [{
      "brightness": 58, // 该限制条件下的亮度
      "schedules": [{
        "dateType": "All", // Range代表指定日期, All代表无限制
        "endDate": null,
        "endTime": "09:50",
        "filterType": "None", // None代表没有星期限制, Week代表有星期限制
        "lng": "zh-CN",
        "monthFilter": [],
        "startDate": null,
        "startTime": "09:00",
        "timeType": "Range", // Range代表指定时间, All代表无限制
        "weekFilter": [],
      }
    ]
  },
}
```

返回数据

```
// 请求成功
{
  "_type": "Success",
  "cardId": "e30-b19-40033",
  "commandId": "5ec4d1d1801daf892447ade7",
}
```

查询屏幕亮度

发送数据

```
{
  "_type": "GetTaskToSetBrightness",
  "id": "5ec4d1d1801daf892447ade7",
}
```

返回数据

```
// 请求成功

{"_type": "DataCallback",
```

```
"cardId": "e30-b19-40033",
"commandId": "5ec4d1d1801daf892447ade7",
"task": { // 为null时代表无定时任务
  "createBy": "lucky2",
  "createDate": "2019-11-14T01:21:50.907Z",
  "defaultBrightness": 5,
  "items": [{
    "brightness": 58,
    "schedules": [{
      "dateType": "All",
      "endDate": null,
      "endTime": "09:50",
      "filterType": "None",
      "monthFilter": [],
      "startDate": null,
      "startTime": "09:00",
      "timeType": "Range",
      "weekFilter": []
    }
  ]],
  {"brightness": 10,
  "schedules": [{
    "dateType": "All",
    "endDate": null,
    "endTime": "09:55",
    "filterType": "None",
    "monthFilter": [],
    "startDate": null,
    "startTime": "09:00",
    "timeType": "Range",
    "weekFilter": []}]
}],
  "name": "576",
  "brightness": 5
}
```

3、音量控制

手动设置音量

发送数据

```
{
  "id": "5ec4d1d1801daf892447ade7"
  "volume": 10, // 范围0到15
  "_type": "SetVolume",
}
```

返回数据

```
// 请求成功
{
  "_type": "Success",
  "cardId": "e30-b19-40033",
  "commandId": "5ec4d1d1801daf892447ade7",
}
```

发送定时音量任务

发送数据

```
{
  "id": "5ec4d1d1801daf892447ade7"
  "_type": "TaskSettingVolume",
  "task": {
    "createBy": "lucky2",
    "createDate": "2019-11-14T01:21:50.907Z",
    "dateCreated": "2019-11-14T01:21:50.907Z",
    "defaultVolume": 5, // 默认音量
    "id": "5dccac2eee30d0611c2baace",
    "items": [{
      "volume": 8, // 该限制条件下的音量
      "id": "5dccac2eee30d0611c2baad0",
      "schedules": [{
        "dateType": "All",
        "endDate": null,
        "endTime": "09:50",
        "filterType": "None",
        "lng": "zh-CN",
        "monthFilter": [],
```

```
        "startDate": null,
        "startTime": "09:00",
        "timeType": "Range",
        "weekFilter": [],
      }
    ]],
  }
}
```

返回数据

```
// 请求成功
{
  "_type": "Success",
  "cardId": "e30-b19-40033",
  "commandId": "5ec4d1d1801daf892447ade7",
}
```

查询音量

发送数据

```
{
  "id": "5ec4d1d1801daf892447ade7",
  "_type": "GetTaskToSetVolume",
}
```

返回数据

```
// 请求成功
{
  "_type": "DataCallback",
  "cardId": "e30-b19-40033",
  "commandId": "5ebcf8ccfff26f9f2e9fbdc0",
  "task": null, // 无任务时为null，有定时任务时参照发送定时任务的task格式
  "_cardId": "y10-116-01576"
}
```

4、重启系统

重启系统

发送数据

```
{
  "id": "5ec4d1d1801daf892447ade7",
  "_type": "Reboot",
}
```

返回数据

```
// 请求成功
{
  "_type": "Success",
  "cardId": "e30-b19-40033",
  "commandId": "5ec4d1d1801daf892447ade7",
}
```

定时重启

发送数据

```
{
  "_type": "SetScheduleToReboot",
  "time": "00:00",
  "sendTo": "joey-cardsystem",
  "id": "5ec4d3f6801daf892447adea"
}
```

返回数据

```
// 请求成功
{
  "_type": "Success",
  "cardId": "e30-b19-40033",
  "commandId": "5ec4d3f6801daf892447adea"
}
```

查询定时重启

发送数据

```
{
  "_type": "GetScheduleToReboot",
  "sendTo": "joey-cardsystem",
  "id": "5ec4d3b2801daf892447ade9"
}
```

返回数据

```
// 请求成功
{
  "_type": "DataCallback",
  "time": "03:00", // 重启时间点
  "commandId": "5ec4d3b2801daf892447ade9"
  "cardId": "e30-b19-40033",

}
```

5、参数配置

设置终端别名、gps坐标回报间隔、NTP服务器地址、时区

发送数据

```
{
  "cardAlias": "e30-30", // 终端别名
  "id": "5ec4d1d1801daf892447ade7",
  "locationFeedback": 0, //gps坐标回报间隔 单位秒
  "ntpServer": "", //NTP服务器地址
  "timezone": "", //时区
  "usbProgramPwd": "", //U盘节目密码
  "_type": "SetConnectionConfig"
}
```

返回数据

```
// 请求成功
{
  "_type": "Success",
  "cardId": "e30-b19-40033",
  "commandId": "5ec4d1d1801daf892447ade7",
}
```

查询终端别名、gps坐标回报间隔、NTP服务器地址、时区

发送数据

```
{
  "id": "5ec4d1d1801daf892447ade7",
  "_type": "GetNtpAndTimezone",
}
```

返回数据

```
// 请求成功
{
  "_type": "DataCallback",
  "cardId": "e30-b19-40033",
  "commandId": "5ec4d1d1801daf892447ade7",
  "language": "en", //语言
  "locationFeedback": 0, //GPS坐标回报间隔(秒)
  "locked": false, //锁定 锁定控制卡后，控制卡将不能更换服务器地址和执行与显示相关的操作
  "now": "May 14, 2020 5:07:10 PM", //当前时间
  "ntpServer": "ntp1.aliyun.com", //NTP服务器地址
  "timezone": "Asia/Shanghai", //时区
}
```

查询GPS

发送数据

```
{
  "id": "5ec4d1d1801daf892447ade7",
  "_type": "GetGpsInfo",
}
```

返回数据

```
// 请求成功
{
  "_type": "DataCallback",
  "cardId": "e30-b19-40033",
  "commandId": null,
  "lat": 0.0, //纬度
  "lng": 0.0, //经度
  "satelliteNumber": 0, //卫星数目
  "speed": 0.0, //速度 km/h
}
```

同步设置

发送数据

```
{
  "id": "5ec4d1d1801daf892447ade7",
  "_type": "SetSync",
  "checkNtpTime": 10, //同步间隔（分钟/次） 仅在NTP模式下生效
  "brightness": "none", //亮度 serial代表方式1, none代表不做同步 仅在Lora模式下生效
  "delaySync": "1000", //时间偏移量（毫秒） 仅在Lora模式下生效
  "identificationCode": "xixun", //同步识别码 仅在Lora模式下生效
  "screenSwitch": "none", //屏幕开关 serial代表方式1, none代表不做同步 仅在Lora模式下生效
  "time": "serial", //serial代表Lora, gps代表GPS, ntp代表NTP 仅在Lora模式下生效
  "volume": "none", //音量 serial代表方式1, none代表不做同步 仅在Lora模式下生效
  "sendTo": "joey-cardsystem",
  "id": "5ec4d4cb801daf892447adeb"
}
```

返回数据

```
// 请求成功
{
  "_type": "Success",
  "cardId": "e30-b19-40033",
  "commandId": "5ec4d4cb801daf892447adeb"
}
```

查询同步设置

发送数据

```
{
  "_type": "GetSync",
  "sendTo": "joey-cardsystem",
  "id": "5ec4d5f7801daf892447adec"
}
```

返回数据

```
// 请求成功
{
  "_type": "DataCallback",
  "cardId": "e30-b19-40033",
  "commandId": "5ec4d5f7801daf892447adec",
  "brightness": "NONE",
  "checkNtpTime": 10,
  "delaySync": 1000,
  "identificationCode": "xixun",
  "lastSynchronousTime": 1589418195009,
  "screenSwitch": "NONE",
  "time": "SERIAL",
  "volume": "NONE",
}
```

设置服务器地址、公司id、realtime Sever

发送数据

```
{
  "id": "5ec4d1d1801daf892447ade7",
  "companyId": "alahover", //公司id
  "realtimeURL": "192.168.8.48:8888", // realtime Sever
  "serverURL": "192.168.8.48:8089", //服务器地址
  "_type": "SetAdvancedConfig",
}
```

返回数据


```
// 请求成功
{
  "_type": "Success",
  "cardId": "e30-b19-40033",
  "commandId": "5ec4d1d1801daf892447ade7",
}
```

6、其他

查询控制卡信息

发送数据

```
{
  "_type": "GetCardInfo",
  "id": "5ec4df0b8ed2644265dad9a1"
}
```

返回数据

```
// 成功
{
  "_type": "CardInfo",
  "cardId": "e30-b19-40034",
  "commandId": "5ec4df0b8ed2644265dad9a1",
  "card": {
    "alias": "noname",
    "asu": 0,
    "autoBrightness": false,
    "basicAppVersion": "1.4.5.3",
    "basicAppVersionCode": 16,
    "brightness": 56,
    "companyId": "test",
    "connVersion": "10.2.3T",
    "connVersionCode": 123,
    "currentProgramId": null,
    "currentProgramName": "unknown",
    "diskSize": 0,
    "displayVersion": "v5.1.6",
    "displayVersionCode": 4,
    "height": 960,
    "humidity": -1.0,
    "lat": 0.0,
    "ledsetVersion": "5.2.5.1-7",
    "ledsetVersionCode": 638,
    "lng": 0.0,
    "locked": false,
    "loras": "unknown",
    "netType": "WIFI",
    "orderVideoCode": 0,
    "orderVideoVersion": "",
    "playerVersion": "unknown",
    "playerVersionCode": -1,
    "rssi": -51,
    "screenStatus": "on",
    "sim": {
      "deviceId": "86985603113681",
      "networkCountryIso": "",
      "number": null,
      "simCountryIso": "",
      "simOperatorName": "",
      "simSerialNumber": null,
      "simState": 1,
      "subscriberId": null
    },
    "starterVersion": "starter179",
    "starterVersionCode": 179,
    "taxiAppVersion": "2.0.7.20",
    "taxiAppVersionCode": 3,
    "temperature": 255.0,
    "updateVersion": "7.1",
    "updateVersionCode": 19,
    "volume": 10,
    "width": 540
  }
}
```

硬件状态

发送数据

```
{
  "_type": "GetFpgaInfo",
  "id": "5ec4e9448ed2644265dad9a2"
}
```

返回数据

```
{ "_type": "FpgaInfoCallback",
  "cardId": "e30-b19-40034",
  "commandId": "5ec4e9448ed2644265dad9a2",
  "list": [{
    "cardVoltage": "4.86V", // 卡电压
    "doorOpened": "Open", // 门是否被打开
    "externalVoltage1": "0.0V", // 外部电压1
    "externalVoltage2": "0.0V", // 外部电压2
    "height": "0",
    "humidity": "0.0%", // 湿度
    "smoke": "Normal", // 有烟雾
    "temperature": "255.0°C", // 温度
    "version": "7029", // 硬件版本
    "width": "0",
    "x": "0",
    "y": "0"
  }]
}
```

设置警报

发送数据

```
{
  "_type": "SetWarning",
  "smoke": true, // 是否有烟雾
  "doorOpened": true, // 门是否被打开
  "externalVoltage2": { // 外部电压2
    "ceiling": 5, // 上限
    "floor": 0 // 下限
  },
  "externalVoltage1": { // 外部电压1
    "ceiling": 5, // 上限
    "floor": 0 // 下限
  },
  "cardVoltage": { // 卡电压
    "ceiling": 5, // 上限
    "floor": 0 // 下限
  },
  "humidity": { // 湿度
    "ceiling": 70, // 上限
    "floor": 0 // 下限
  },
  "temperature": { // 温度
    "ceiling": 60, // 上限
    "floor": 0 // 下限
  },
  "id": "5ec4eb7e8ed2644265dad9a4"
}
```

接收数据

```
// 成功
{
  "_type": "Success",
  "cardId": "e30-b19-40034",
  "commandId": "5ec4eb7e8ed2644265dad9a4"
}
```

查询警报

发送数据

```
{
  "_type": "GetWarning",
  "id": "5ec4ed6e8ed2644265dad9a6"
}
```

返回数据

```
// 成功
```

```
{
  "_type": "WarningInfoCallback",
  "cardId": "e30-b19-40034",
  "commandId": "5ec4ed6e8ed2644265dad9a6",
  "setting": {
    "cardVoltage": {
      "ceiling": 5.0,
      "floor": 0.0
    },
    "doorOpened": true,
    "externalVoltage1": {
      "ceiling": 5.0,
      "floor": 0.0
    },
    "externalVoltage2": {
      "ceiling": 5.0,
      "floor": 0.0
    },
    "humidity": {
      "ceiling": 70.0,
      "floor": 0.0
    },
    "smoke": true,
    "temperature": {
      "ceiling": 60.0,
      "floor": 0.0
    }
  }
}
```

在线更新apk

发送数据

```
{
  "_type": "UpdateApp",
  "apkId": "5de49d43bf15592b29418b05",
  "apkName": "Display_v516.2.zip",
  "id": "5ec4ee398ed2644265dad9a7"
}
```

返回数据

```
// 成功
{
  "_type": "Received",
  "cardId": "e30-b19-40034",
  "commandId": "5ec4ef0d8ed2644265dadda0"
}
```

7、发送节目任务

发送数据

```
{
  "_type": "PlayProgramTask",
  "deferred": false, // 代表是否离线发送
  "sendTo": "yzd-player",
  "id": "5ec5e5cfc85856154e321bb9"
  "task": {
    "dateCreated": "2020-05-21T01:58:46.618Z",
    "items": [{
      "schedules": [{ // 时间日期限制
        "lng": "zh-CN",
        "monthFilter": [],
        "weekFilter": [1,2,3,4,5],
        "filterType": "Week",
        "endTime": "18:00",
        "startTime": "08:00",
        "timeType": "Range",
        "endDate": "2020-06-06",
        "startDate": "2020-05-21",
        "dateType": "Range"
      }],
      "_id": "5ec5e056c85856154e320787",
      "repeatTimes": 1,
      "_program": { // 具体节目
        "dateCreated": "2020-05-21T01:58:41.756Z",
        "layers": [{
          "sources": [{
            "exitEffectTimeSpan": 0,
            "entryEffectTimeSpan": 0,
            "exitEffect": "None",
```

```
        "entryEffect": "None",
        "height": 320,
        "width": 320,
        "top": 0,
        "left": 0,
        "timeSpan": 10,
        "playTime": 0,
        "url": "https://ledok.cn/",
        "_type": "WebURL",
        "name": "webURL",
        "id": ""
    }],
    "repeat": false
}],
    "__v": 0, // 0 高级节目 1 简单节目
    "_user": "test",
    "_role": "5d2d7ec455ef9d830939da9a",
    "_department": "5d2d7ec455ef9d830939da99",
    "_company": "test",
    "height": 320, // 节目宽度
    "width": 320, // 节目宽度
    "name": "lucky-weburl", // 节目名称
    "totalSize": 0, // 节目素材的大小
    "_id": "5ec5e051c85856154e320785"
}
}],
    "__v": 0,
    "name": "lucky-weburl_Task",
    "_user": "test",
    "_role": "5d2d7ec455ef9d830939da9a",
    "_department": {
        "dateCreated": "2019-07-16T07:37:40.565Z",
        "__v": 0,
        "priority": 10000,
        "name": "RootDepartment",
        "_company": "test",
        "_id": "5d2d7ec455ef9d830939da99"
    },
    "_company": "test",
    "_id": "5ec5e056c85856154e320786"
},
}
```

返回数据

```
// 收到的第一条消息 代表已成功接收到指令
{
    "_type": "Received",
    "cardId": "e30-b19-40034",
    "commandId": "5ec5e5cfc85856154e321bb9"
}
// 接着会收到关于素材下载进度的Json字符串
{
    "_type": "TaskProgress",
    "cardId": "e30-b19-40034",
    "commandId": "5ec5e5cfc85856154e321bb9",
    "progress": 100,
    "remainingSeconds": 0,
    "speed": 0,
    "taskId": "5ec5e056c85856154e320787"
}
// 当progress为100之后 会收到这条代表完全成功的Json字符串
{
    "_type": "Success",
    "cardId": "e30-b19-40034",
    "commandId": "5ec5e5cfc85856154e321bb9"
}
```