

# CGI API

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前言

概述

本文提供CGI程序API输入输出介绍。

产品版本

芯片名称	内核版本
RV1109	Linux 4.19
RK1806	Linux 4.19
RV1126	Linux 4.19

读者对象

本文档（本指南）主要适用于以下工程师：

技术支持工程师

软件开发工程师

修订记录

版本号	作者	修改日期	修改说明
V1.0.0	陈茂森	2020-08-29	初始版本

# 目录

## CGI API

1. 须知
2. 常用功能导航
3. system
  - 3.1 login
  - 3.2 device-info
  - 3.3 remain-space
  - 3.4 para
  - 3.5 firmware-upgrade
  - 3.6 reboot
  - 3.7 factory-reset
  - 3.8 export-log
  - 3.9 import-db
4. video
  - 4.1 region-clip
  - 4.2 advanced-enc
5. stream-url
6. storage
  - 6.1 hdd-list
  - 6.2 quota
  - 6.3 snap-plan
  - 6.4 current-path
  - 6.5 format
  - 6.6 search
  - 6.7 advance-para
  - 6.8 delete
7. roi
8. peripherals
  - 8.1 gate
  - 8.2 fill-light
9. osd
  - 9.1 overlays
  - 9.2 image
  - 9.3 privacy-mask
10. network
  - 10.1 lan
  - 10.2 wlan
  - 10.3 Wi-Fi
  - 10.4 wifi-list
11. network-ntp
  - 11.1 time
12. network-port
13. image
  - 13.1 id
14. event
  - 14.1 triggers
  - 14.2 schedules
  - 14.3 motion-detection
  - 14.4 regional-invasion
  - 14.5 face-list
  - 14.6 face
  - 14.7 face-config
  - 14.8 face-waiting
  - 14.9 smart
  - 14.10 get-record-status

- 14.11 last-face
- 14.12 snapshot-record
- 14.13 control-record
- 14.14 check-face
- 14.15 reset-face
- 14.16 reset-snap
- 14.17 reset-control
- 14.18 face-picture
- 14.19 take-photo
- 14.20 start-record
- 14.21 stop-record
- 15. audio
- 16. 常见异常响应
  - 16.1 401
  - 16.2 500
  - 16.3 501

# 1. 须知

- 1.本文中所提供URL均省略[http://{IP}/{cgi-bin/entry.cgi}](#)，实际使用过程中需自行添加。
- 2.除/system/login 以及 /system/para/webPage 外，访问其他URL需携带login返回cookie。
- 3.request提供请求体需携带的信息示例， response中提供返回结果示例。
- 4.API是否对设备生效， 详见docs/Linux/ApplicationNote/《Rockchip\_Instructions\_Linux\_Web\_Configuration》中对应功能是否生效。

# 2. 常用功能导航

功能	说明
<a href="#">登录</a>	登录， 并获取cookie。
用户管理	<a href="#">用户注册</a> ， <a href="#">修改</a> ， <a href="#">删除</a> 。
<a href="#">获取视频流</a>	获取各个码流的RTSP/RTMP URL。
<a href="#">重启</a>	重启设备。
<a href="#">恢复出厂设置</a>	数据库恢复出厂配置。
<a href="#">远程升级</a>	1.申请断点续传id; 2. <a href="#">查询剩余容量是否满足升级</a> ; 3.断点续传上传升级文件; 4.发送完成信号; 5. <a href="#">发送查询信号检测是否完成升级</a> ; 6.删除升级文件。
<a href="#">获取/配置视频编码</a>	获取以及配置视频编码参数， 如分辨率、 图像质量、 编码。
<a href="#">获取/配置局域网</a>	获取和配置局域网， 如IP， 子网掩码。
WiFi配置	1. <a href="#">WiFi基础配置</a> ; 2. <a href="#">WiFi信息及连接</a> 。
<a href="#">端口设置</a>	获取及配置设备端口。
<a href="#">时间设置</a>	获取及配置设备时间， 如时区， 设备时间。
<a href="#">ISP配置</a>	获取/设置isp， 包含图像调节、 曝光、 日夜转换、 高动态、 白平衡、 图像增强、 视频调整等设置。
<a href="#">OSD字符</a>	OSD字符样式， 字符内容的获取与配置。

功能	说明
<a href="#">OSD隐私遮盖</a>	获取及配置OSD隐私遮盖参数。
<a href="#">OSD图片遮盖</a>	1.上传遮盖图片； 2.获取设置图片遮盖参数。
<a href="#">音频设置</a>	音频参数的获取和设置。
截图	1. <a href="#">主码流实时截图</a> ； 2. <a href="#">截图记录查询</a> 。
录像	1.主码流实时录像 <a href="#">开始/结束</a> ； 2. <a href="#">录像查询</a> ； 3. <a href="#">录像计划配置</a> ； 说明：若实时录像与计划冲突将会被终止。
人脸注册	1. <a href="#">人脸检测以及人脸识别开启</a> ； 2.注册信息上传并获取照片上传地址 （API： <a href="#">/event/face</a> ，携带note信息为undone）； 3. <a href="#">人脸照片上传</a> ； 4.人脸照片上传完成确认 （API： <a href="#">/event/face</a> ，携带note信息为空）； 说明：批量注册需 <a href="#">查询待处理照片数</a> ， 当待处理照片大于10时， 需等待处理buff后再上传。
人脸信息查询/管理	1. <a href="#">注册人员清单</a> ； 2. <a href="#">抓拍记录</a> 3. <a href="#">控制记录</a>

## 3. system

### 3.1 login

```
# GET /system/login 获取登录用户信息
# response iAuthLevel: 认证等级（暂无使用），iUserLevel: 用户权限（0管理员，1操作员，2普通用户），id: 数据库id, sUserName: 用户名
[
  {
    "iAuthLevel": 1,
    "iUserLevel": 0,
    "id": 0,
    "sUserName": "admin"
  }
]

# PUT/POST /system/login?expire 用户登录，cookie有效期一小时
# PUT/POST /system/login?expire=day 用户登录，cookie有效期一天
# PUT/POST /system/login?expire=week 用户登录，cookie有效期一周
# PUT/POST /system/login?expire=month 用户登录，cookie有效期一个月
# request sUserName: 用户名，sPassword: 密码（base64加密）
{
  "sUserName": "admin",
  "sPassword": "YWRtaW4="
}
# response auth: 用户权限，status: 登录状态（大于等于0为成功，-1密码错误，-2用户不存在）
# 登录成功后set-cookie中携带验证所需cookie
{
  "auth": 0,
  "status": 0
}

# PUT/POST /system/login/add 用户密码添加
# request sUserName: 管理员用户名，sPassword: 管理员密码（base64加密），newUserName: 新用户姓名，newPassword: 新用户密码（base64加密），secondNewPw: 二次确认密码（base64加密），iUserLevel: 用户权限
{
  "sUserName": "admin",
  "sPassword": "YWRtaW4=",
  "newUserName": "test",
  "newPassword": "dGVzdA==",
  "secondNewPw": "dGVzdA==",
  "iUserLevel": 1
}
# respons status: 注册状态（-2注册成功，>=0用户名重复）
{"status": -2}

# PUT/POST /system/login/modify 用户密码修改
# request 同/system/login/add
{
  "sUserName": "admin",
  "sPassword": "YWRtaW4=",
```

```

        "newUserName": "test",
        "newPassword": "dGVzdA==",
        "secondNewPw": "dGVzdA==",
        "iUserLevel": 1
    }
}
# respons status: 修改状态 (>=0注册成功, -2用户名不存在)
{"status": 2}

# PUT/POST /system/login/delete 用户删除 (管理员不可删除)
# request 管理员用户名, sPassword: 管理员密码 (base64加密), newUserName: 删除用户名
{
    "sUserName": "admin",
    "sPassword": "YWRudWI=",
    "newUserName": "test"
}
# respons status: 修改状态 (>0删除成功, -2用户名不存在)
{"status": 2}

```

## 3.2 device-info

```

# GET /system/device-info 获取设备信息
# respons name: 信息名称, value: 信息值, ro: 只读属性
[
    {
        "id": 0,
        "name": "deviceName",
        "ro": "false",
        "value": "RK IP Camera"
    },
    {
        "id": 1,
        "name": "telecontrolID",
        "ro": "false",
        "value": "88"
    },
    {
        "id": 2,
        "name": "model",
        "ro": "true",
        "value": "RK-003"
    },
    {
        "id": 3,
        "name": "serialNumber",
        "ro": "true",
        "value": "RK-003-A"
    },
    {
        "id": 4,
        "name": "firmwareVersion",
        "ro": "true",
        "value": "V0.2.6 build 200413"
    },
    {
        "id": 5,

```



```
    "name": "encoderVersion",
    "ro": "true",
    "value": "V1.0 build 200413"
  },
  {
    "id": 6,
    "name": "webVersion",
    "ro": "true",
    "value": "V1.12.2 build 200413"
  },
  {
    "id": 7,
    "name": "pluginVersion",
    "ro": "true",
    "value": "V1.0.0.0"
  },
  {
    "id": 8,
    "name": "channelsNumber",
    "ro": "true",
    "value": "1"
  },
  {
    "id": 9,
    "name": "hardDisksNumber",
    "ro": "true",
    "value": "1"
  },
  {
    "id": 10,
    "name": "alarmInputsNumber",
    "ro": "true",
    "value": "0"
  },
  {
    "id": 11,
    "name": "alarmOutputsNumber",
    "ro": "true",
    "value": "0"
  },
  {
    "id": 12,
    "name": "firmwareVersionInfo",
    "ro": "true",
    "value": "CP-3-B"
  },
  {
    "id": 13,
    "name": "manufacturer",
    "ro": "true",
    "value": "Rockchip"
  },
  {
    "id": 14,
    "name": "hardwareId",
    "ro": "true",
    "value": "c3d9b8674f4b94f6"
  }
}
```

```

]

# PUT/POST /system/device-info 修改设备信息
# requeset 修改的数据单元信息
{
    "id":1,
    "name":"telecontrolID",
    "value":"88",
    "ro":"false"
}
# response 修改后的数据单元信息
{
    "id":1,
    "name":"telecontrolID",
    "value":"88",
    "ro":"false"
}

```

### 3.3 remain-space

```

# GET /system/remain-space 获取设备userdata剩余空间
# response 剩余空间，单位bytes
{
    "availableDisk": 1026608128
}

```

### 3.4 para

```

# GET /system/remain-space/key 获取设备能力集 key为数据库SystemPara中的name
# response 为能力集json字符（即数据库SystemPara中的para），可转为json对象

```

### 3.5 firmware-upgrade

```

# GET /system/firmware-upgrade?upload-type=resumable 断点续传id申请
# requeset
null
# response Headers/X-Location中携带申请到的id
Headers: X-Location: http://{IP}}/cgi-bin/entry.cgi/system/firmware-upgrade?id=0

# POST/PUT /system/firmware-upgrade?id=0 升级断点续传，id为文件编号
# requeset
Headers: Content-Range: bytes 524288-1048575 #文件写入的起始和结束位置
Headers: Content-Type: text/plain
Body: text/plain 数据，大小小于1M
# response 当前文件写入情况
{"range":"bytes 0-1572863"}

# POST/PUT /system/firmware-upgrade?start=id id为数字，代表升级文件的断点续传id，开始系统升级

```

```
# reueset
null
# response 将无响应，超时后开始等待升级完成

# DELETE /system/firmware-upgrade?id=0 删除升级文件
```

## 3.6 reboot

```
# POST/PUT /system/reboot 重启
# reueset
null
```

## 3.7 factory-reset

```
# POST/PUT /system/factory-reset 恢复出厂设置
# reueset
null
```

## 3.8 export-log

```
# POST/PUT /system/export-log 导出log
# reueset
null
# response log地址
{"location":"http://172.16.21.106/userdata/export.log"}
```

## 3.9 import-db

```
# POST/PUT /system/import-db 上传数据库
# reueset 数据类型为multipart/form-data
Header:content-Type: multipart/form-data
Form Data: 文件数据
# response
{}

# POST/PUT /system/import-db?start=1 开始导入数据库，并重启
# reueset
null
```

## 4. video

---

```
# GET /video 获取全部视频编码配置
```

#response iGOP: I帧间隔, iMaxRate: 码率上限, iMinRate: 码率下限, iStreamSmooth: 码流平滑, TargetRate: 目标码率, sFrameRate: 视频帧率, sFrameRateIn: 输入帧率, sH264Profile: 编码复杂度, sOutputDataType: 视频编码, sRCMode: 码率类型, sRCQuality: 图像质量, sResolution: 分辨率, SVC: SVC开关, Smart: Smart开关, sStreamType: 码流类型, sVideoType: 视频类型, 其余为数据token

```
[
  {
    "iGOP": 50,
    "iMaxRate": 8192,
    "iMinRate": 0,
    "iStreamSmooth": 50,
    "iTargetRate": 0,
    "id": 0,
    "sFrameRate": "25",
    "sFrameRateIn": "25",
    "sH264Profile": "high",
    "sOutputDataType": "H.265",
    "sRCMode": "CBR",
    "sRCQuality": "high",
    "sResolution": "2688*1520",
    "sSVC": "close",
    "Smart": "close",
    "sStreamType": "mainStream",
    "sVideoEncoderConfigurationName": "VideoEncoder_0",
    "sVideoEncoderConfigurationToken": "VideoEncoderToken_0",
    "sVideoSourceToken": "VideoSource_0",
    "sVideoType": "compositeStream"
  },
  {
    "iGOP": 50,
    "iMaxRate": 1024,
    "iMinRate": 0,
    "iStreamSmooth": 50,
    "iTargetRate": 0,
    "id": 1,
    "sFrameRate": "25",
    "sFrameRateIn": "25",
    "sH264Profile": "high",
    "sOutputDataType": "H.264",
    "sRCMode": "CBR",
    "sRCQuality": "high",
    "sResolution": "640*480",
    "sSVC": "close",
    "sSmart": "close",
    "sStreamType": "subStream",
    "sVideoEncoderConfigurationName": "VideoEncoder_1",
    "sVideoEncoderConfigurationToken": "VideoEncoderToken_1",
    "sVideoSourceToken": "VideoSource_0",
    "sVideoType": "compositeStream"
  },
  {
    "iGOP": 50,
    "iMaxRate": 2048,
    "iMinRate": 0,
    "iStreamSmooth": 50,
    "iTargetRate": 0,
    "id": 2,
    "sFrameRate": "25",
```

```

        "sFrameRateIn": "25",
        "sH264Profile": "high",
        "sOutputDataType": "H.265",
        "sRCMode": "CBR",
        "sRCQuality": "high",
        "sResolution": "1920*1080",
        "sSVC": "close",
        "sSmart": "close",
        "sStreamType": "thirdStream",
        "sVideoEncoderConfigurationName": "VideoEncoder_2",
        "sVideoEncoderConfigurationToken": "VideoEncoderToken_2",
        "sVideoSourceToken": "VideoSource_0",
        "sVideoType": "compositeStream"
    }
}

# GET /video/id 获取对应id视频编码配置, id需为0-2数字
# response 返回GET /video中单个id数据

# POST/PUT /video/id 配置对应id视频编码参数, id需为0-2数字
# request 传入上述数据单元json
# response 得到设置完后数据单元json

```

## 4.1 region-clip

```

# GET /video/2/region-clip 获取区域裁剪配置
# response normalizedScreenSize: 归一化尺寸, regionClip: 区域裁剪参数
{
    "normalizedScreenSize": {
        "iNormalizedScreenHeight": 480,
        "iNormalizedScreenWidth": 704
    },
    "regionClip": {
        "iHeight": 480,
        "iPositionX": 0,
        "iPositionY": 0,
        "iRegionClipEnabled": 0,
        "iWidth": 640
    }
}

```

## 4.2 advanced-enc

```

# GET /video/0/advanced-enc 获取高级编码参数默认值
# response
[
    {
        "id": 0,
        "sFunction": "qp",
        "sParameters": "
{\"qp_init\":24,\"qp_step\":4,\"qp_min\":12,\"qp_max\":48,\"min_i_qp\":10,\"max_i_qp\":20}
",
    }
]

```

```
        "sStreamType": "mainStream"
    },
    {
        "id": 1,
        "sFunction": "split",
        "sParameters": "{\"mode\":0,\"size\":1024}",
        "sStreamType": "mainStream"
    }
]
```

## 5. stream-url

---

```
# GET /video/stream-url 获取RTSP/RTMP视频流地址
# response
[
    {
        "id":0,
        "sStreamProtocol":"RTSP",
        "sURL":"rtsp://172.16.21.106:554/mainstream"
    },
    {
        "id":1,
        "sStreamProtocol":"RTMP",
        "sURL":"rtmp://172.16.21.106:1935/live/substream"
    },
    {
        "id":2,
        "sStreamProtocol":"RTMP",
        "sURL":"rtmp://172.16.21.106:1935/live/thirdstream"
    }
]

# POST/PUT /video/stream-url/id 设置视频流协议
# request
{
    "sStreamProtocol":"RTSP",
}
# response
{
    "id":0,
    "sStreamProtocol":"RTSP",
    "sURL":"rtsp://172.16.21.106:554/mainstream"
}
```

## 6. storage

---

## 6.1 hdd-list

```
# GET /storage/hdd-list 获取所有磁盘信息
# response
[
  {
    "iFormatProg":0,
    "iFormatStatus":0,
    "iFreeSize":0,
    "iMediaSize":0,
    "iTotalSize":0,
    "id":1,
    "sDev": "",
    "sFormatErr": "",
    "sMountPath": "/mnt/sdcard",
    "sName": "SD Card",
    "sStatus": "unmounted",
    "sType": ""
  },
  {
    "iFormatProg":0,
    "iFormatStatus":0,
    "iFreeSize":12.0438613891602,
    "iMediaSize":60972,
    "iTotalSize":12.1327171325684,
    "id":3,
    "sAttributes": "rw",
    "sDev": "/dev/block/by-name/media",
    "sFormatErr": "",
    "sMountPath": "/userdata/media",
    "sName": "Emmc",
    "sStatus": "mounted",
    "sType": "ext2"
  },
  {
    "iFormatProg":0,
    "iFormatStatus":0,
    "iFreeSize":0,
    "iMediaSize":0,
    "iTotalSize":0,
    "id":2,
    "sDev": "",
    "sFormatErr": "",
    "sMountPath": "/media/usb0",
    "sName": "U Disk",
    "sStatus": "unmounted",
    "sType": ""
  }
]

# GET /storage/hdd-list/id id为数字, 获取对应id磁盘信息
# response
{
  "iFormatProg":0,
  "iFormatStatus":0,
  "iFreeSize":0,
```

```

    "iMediaSize":0,
    "iTotalSize":0,
    "id":2,
    "sDev": "",
    "sFormatErr": "",
    "sMountPath": "/media/usb0",
    "sName": "U Disk",
    "sStatus": "unmounted",
    "sType": ""
}

```

## 6.2 quota

```

# GET /storage/quota 获取磁盘配额信息
# response
[
  {
    "iFreePictureQuota": 0.0,
    "iFreeVideoQuota": 0.0,
    "iPictureQuotaRatio": 5,
    "iTotalPictureVolume": 0.0,
    "iTotalVideoVolume": 0.0,
    "iVideoQuotaRatio": 45,
    "id": 1
  },
  {
    "iFreePictureQuota": 0.595100224018097,
    "iFreeVideoQuota": 5.42329835891724,
    "iPictureQuotaRatio": 5,
    "iTotalPictureVolume": 0.606635868549347,
    "iTotalVideoVolume": 5.45972299575806,
    "iVideoQuotaRatio": 45,
    "id": 2
  },
  {
    "iFreePictureQuota": 0.0,
    "iFreeVideoQuota": 0.0,
    "iPictureQuotaRatio": 5,
    "iTotalPictureVolume": 0.0,
    "iTotalVideoVolume": 0.0,
    "iVideoQuotaRatio": 45,
    "id": 3
  }
]

# GET /storage/quota/id id为数字, 获取对应id磁盘配额信息
# response
{
  "iFreePictureQuota": 0.595100224018097,
  "iFreeVideoQuota": 5.42329835891724,
  "iPictureQuotaRatio": 5,
  "iTotalPictureVolume": 0.606635868549347,
  "iTotalVideoVolume": 5.45972299575806,
  "iVideoQuotaRatio": 45,
  "id": 2
}

```



```

}

# POST/PUT /storage/quota/id id为数字，设置对应id磁盘配额信息，并切换存储磁盘为id对应磁盘
# request
{
    "id":3,
    "iPictureQuotaRatio":5,
    "iVideoQuotaRatio":45
}
# response
{
    "iFreePictureQuota":0,
    "iFreeVideoQuota":0,
    "iPictureQuotaRatio":5,
    "iTotalPictureVolume":0,
    "iTotalVideoVolume":0,
    "iVideoQuotaRatio":45,
    "id":3
}

```

## 6.3 snap-plan

```

# GET /storage/snap-plan/id id为数字，获取对应id的计划抓图参数
# response
{
    "iEnabled": 0,
    "iImageQuality": 10,
    "iShotInterval": 1000,
    "iShotNumber": 4,
    "sImageType": "JPEG",
    "sResolution": "2688*1520"
}

# POST/PUT /storage/snap-plan/id id为数字，配置对应id的计划抓图参数
# request
{
    "iEnabled":0,
    "sImageType":"JPEG",
    "sResolution":"2688*1520",
    "iImageQuality":10,
    "iShotInterval":10000
}
# response
{
    "iEnabled":0,
    "iImageQuality":10,
    "iShotInterval":10000,
    "sImageType":"JPEG",
    "sResolution":"2688*1520"
}

```

## 6.4 current-path

```
# GET /storage/current-path 获取当前存储路径
# response
{
  "sMountPath": "/userdata/media"
}
```

## 6.5 format

```
# POST/PUT /storage/format/id id为数字，格式化该id对应的磁盘
# request
null
# response
{}
```

## 6.6 search

```
# POST/PUT /storage/search 查询录像/抓图存储记录
# request 查询条件, maxResults: 返回的查询结果最大数目, searchResultPosition: 返回查询结果的开始位置, order: 0正序查询, 1逆序查询
{
  "searchType": "video0",
  "startTime": "1970-01-01T00:00:00",
  "endTime": "2020-08-29T23:59:59",
  "maxResults": 20,
  "searchResultPosition: 返回查询结果的开始位置, ": 0,
  "order": 0
}
# response
{
  "matchList": [
    {
      "fileAddress": "http://172.16.21.106/main_20200715200714_1.mp4",
      "fileId": 0,
      "fileName": "main_20200715200714_1.mp4",
      "fileSize": 0.82734203338623,
      "fileTime": "2020-07-15T20:07:16"
    },
    {
      "fileAddress": "http://172.16.21.106/main_20200715200335_6.mp4",
      "fileId": 1,
      "fileName": "main_20200715200335_6.mp4",
      "fileSize": 0.00182342529296875,
      "fileTime": "2020-07-15T20:03:35"
    }
  ],
  "numOfMatches": 2
}
```

## 6.7 advance-para

```
# GET /storage/advance-para/0 获取计划录像配置参数
{
  "iEnabled": 0,
  "id": 0
}

# POST/PUT /storage/advance-para/0 配置计划录像参数
# request
{
  "iEnabled": 1,
  "id": 0
}
# response
{
  "iEnabled": 1,
  "id": 0
}
```

## 6.8 delete

```
# POST/PUT /storage/delete 删除指定类型的抓图/录像
# request
{
  "type": "photo0",
  "name": [
    "main_19700101_085333_2.jpeg",
    "main_19700101_080219_1.jpeg"
  ]
}
# response 1成功删除, 0删除失败
{"rst":1}
```

## 7. roi

---

```
# GET /roi 获取所有码流的roi信息
# response
{
  "ROIRegionList": [
    {
      "iHeight": 0,
      "iPositionX": 0,
      "iPositionY": 0,
      "iQualityLevelOfROI": 3,
      "iROIEnabled": 0,
      "iROIId": 1,
      "iStreamEnabled": 0,
      "iWidth": 0,
    }
  ]
}
```

```
    "sName": "test",
    "sStreamType": "mainStream"
  },
  {
    "iHeight": 0,
    "iPositionX": 0,
    "iPositionY": 0,
    "iQualityLevelOfROI": 3,
    "iROIEnabled": 0,
    "iROIId": 2,
    "iStreamEnabled": 0,
    "iWidth": 0,
    "sName": "test",
    "sStreamType": "mainStream"
  },
  {
    "iHeight": 0,
    "iPositionX": 0,
    "iPositionY": 0,
    "iQualityLevelOfROI": 3,
    "iROIEnabled": 0,
    "iROIId": 1,
    "iStreamEnabled": 0,
    "iWidth": 0,
    "sName": "test",
    "sStreamType": "subStream"
  },
  {
    "iHeight": 0,
    "iPositionX": 0,
    "iPositionY": 0,
    "iQualityLevelOfROI": 3,
    "iROIEnabled": 0,
    "iROIId": 2,
    "iStreamEnabled": 0,
    "iWidth": 0,
    "sName": "test",
    "sStreamType": "subStream"
  },
  {
    "iHeight": 0,
    "iPositionX": 0,
    "iPositionY": 0,
    "iQualityLevelOfROI": 3,
    "iROIEnabled": 0,
    "iROIId": 1,
    "iStreamEnabled": 0,
    "iWidth": 0,
    "sName": "test",
    "sStreamType": "thirdStream"
  },
  {
    "iHeight": 0,
    "iPositionX": 0,
    "iPositionY": 0,
    "iQualityLevelOfROI": 3,
    "iROIEnabled": 0,
    "iROIId": 2,
```

```

        "iStreamEnabled": 0,
        "iWidth": 0,
        "sName": "test",
        "sStreamType": "thirdStream"
    }
],
"normalizedScreenSize": {
    "iNormalizedScreenHeight": 480,
    "iNormalizedScreenWidth": 704
}
}

# GET /roi/main-stream 获取主码流的roi信息
# GET /roi/subStream 获取子码流的roi信息
# GET /roi/thirdStream 获取第三码流的roi信息
# response
[
    {
        "iHeight": 0,
        "iPositionX": 0,
        "iPositionY": 0,
        "iQualityLevelOfROI": 3,
        "iROIEEnabled": 0,
        "iROIId": 1,
        "iStreamEnabled": 0,
        "iWidth": 0,
        "sName": "test",
        "sStreamType": "mainStream"
    },
    {
        "iHeight": 0,
        "iPositionX": 0,
        "iPositionY": 0,
        "iQualityLevelOfROI": 3,
        "iROIEEnabled": 0,
        "iROIId": 2,
        "iStreamEnabled": 0,
        "iWidth": 0,
        "sName": "test",
        "sStreamType": "mainStream"
    }
]

# GET /roi/main-stream/id 获得主码流对应id的roi信息，其他码流可参考此URL
# response
{
    "iHeight": 0,
    "iPositionX": 0,
    "iPositionY": 0,
    "iQualityLevelOfROI": 3,
    "iROIEEnabled": 0,
    "iROIId": 1,
    "iStreamEnabled": 0,
    "iWidth": 0,
    "sName": "test",
    "sStreamType": "mainStream"
}

```

```

# PUT/POST /roi/main-stream/id 配置主码流对应id的roi，其他码流可参考此URL
# request
{
    "iHeight": 0,
    "iPositionX": 0,
    "iPositionY": 0,
    "iQualityLevelOfROI": 3,
    "iROIEnabled": 1,
    "iROIId": 1,
    "iStreamEnabled": 0,
    "iWidth": 0,
    "sName": "test",
    "sStreamType": "mainStream"
}
# response
{
    "iHeight": 0,
    "iPositionX": 0,
    "iPositionY": 0,
    "iQualityLevelOfROI": 3,
    "iROIEnabled": 1,
    "iROIId": 1,
    "iStreamEnabled": 0,
    "iWidth": 0,
    "sName": "test",
    "sStreamType": "mainStream"
}

```

## 8. peripherals

---

### 8.1 gate

```

# GET /peripherals/gate 获取闸机外设配置
# response
{
    "relay": {
        "iDuration": 500,
        "iEnable": 0,
        "iIOIndex": 0,
        "iValidLevel": 1,
        "id": 0
    },
    "weigen": {
        "iDuration": 0,
        "iEnable": 0,
        "iWiegandBit": 26,
        "id": 0
    }
}

# POST/PUT /peripherals/gate 配置闸机参数
# request

```

```

{
  "relay": {
    "iDuration": 500,
    "iEnable": 0,
    "iIOIndex": 0,
    "iValidLevel": 1,
    "id": 0
  },
  "weigen": {
    "iDuration": 0,
    "iEnable": 0,
    "iWiegandBit": 26,
    "id": 0
  }
}
# response
{
  "relay": {
    "iDuration": 500,
    "iEnable": 0,
    "iIOIndex": 0,
    "iValidLevel": 1,
    "id": 0
  },
  "weigen": {
    "iDuration": 0,
    "iEnable": 0,
    "iWiegandBit": 26,
    "id": 0
  }
}

```

## 8.2 fill-light

```

# GET /peripherals/fill-light 获取补光灯外设配置
# response
{
  "iNormalBrightness": 50,
  "iSaveEnergyBrightness": 50,
  "iSaveEnergyEnable": 0,
  "id": 0
}

# POST/PUT /peripherals/fill-light 配置补光灯参数
# request
{
  "iNormalBrightness": 50,
  "iSaveEnergyBrightness": 50,
  "iSaveEnergyEnable": 0,
  "id": 0
}
# response
{
  "iNormalBrightness": 50,
  "iSaveEnergyBrightness": 50,

```

```
"iSaveEnergyEnable": 0,  
"id": 0  
}
```

## 9. osd

---

### 9.1 overlays

```
# GET /osd/overlays 获取OSD叠加配置  
# response  
{  
  "attribute": {  
    "iBoundary": 0,  
    "sAlignme": "customize",  
    "sOSDAttribute": "transparent/not-flashing",  
    "sOSDFontSize": "32*32",  
    "sOSDFrontColor": "fff799",  
    "sOSDFrontColorMode": "customize"  
  },  
  "channelNameOverlay": {  
    "iChannelNameOverlayEnabled": 1,  
    "iPositionX": 560,  
    "iPositionY": 432,  
    "sChannelName": "Camera 01"  
  },  
  "characterOverlay": [  
    {  
      "iPositionX": 0,  
      "iPositionY": 0,  
      "iTextOverlayEnabled": 0,  
      "id": 0,  
      "sDisplayText": "",  
      "sIsPersistentText": "true"  
    },  
    {  
      "iPositionX": 0,  
      "iPositionY": 0,  
      "iTextOverlayEnabled": 0,  
      "id": 1,  
      "sDisplayText": "",  
      "sIsPersistentText": "true"  
    },  
    {  
      "iPositionX": 0,  
      "iPositionY": 0,  
      "iTextOverlayEnabled": 0,  
      "id": 2,  
      "sDisplayText": "",  
      "sIsPersistentText": "true"  
    },  
    {  
      "iPositionX": 0,
```



```

        "iPositionY": 0,
        "iTextOverlayEnabled": 0,
        "id": 3,
        "sDisplayText": "",
        "sIsPersistentText": "true"
    },
    {
        "iPositionX": 0,
        "iPositionY": 0,
        "iTextOverlayEnabled": 0,
        "id": 4,
        "sDisplayText": "",
        "sIsPersistentText": "true"
    },
    {
        "iPositionX": 0,
        "iPositionY": 0,
        "iTextOverlayEnabled": 0,
        "id": 5,
        "sDisplayText": "",
        "sIsPersistentText": "true"
    },
    {
        "iPositionX": 0,
        "iPositionY": 0,
        "iTextOverlayEnabled": 0,
        "id": 6,
        "sDisplayText": "",
        "sIsPersistentText": "true"
    },
    {
        "iPositionX": 0,
        "iPositionY": 0,
        "iTextOverlayEnabled": 0,
        "id": 7,
        "sDisplayText": "",
        "sIsPersistentText": "true"
    }
],
"dateTimeOverlay": {
    "iDateTimeOverlayEnabled": 1,
    "iDisplayWeekEnabled": 1,
    "iPositionX": 16,
    "iPositionY": 16,
    "sDateStyle": "CHR-YYYY-MM-DD",
    "sTimeStyle": "24hour"
},
"normalizedScreenSize": {
    "iNormalizedScreenHeight": 480,
    "iNormalizedScreenWidth": 704
}
}

# POST/PUT /osd/overlays 配置OSD叠加
# request
{
    "attribute": {
        "iBoundary": 0,

```

```
    "sAlignment": "customize",
    "sOSDAttribute": "transparent/not-flashing",
    "sOSDFontSize": "32*32",
    "sOSDFrontColor": "fff799",
    "sOSDFrontColorMode": "customize"
  },
  "channelNameOverlay": {
    "iChannelNameOverlayEnabled": 1,
    "iPositionX": 560,
    "iPositionY": 432,
    "sChannelName": "Camera 01"
  },
  "characterOverlay": [
    {
      "iPositionX": 0,
      "iPositionY": 0,
      "iTextOverlayEnabled": 0,
      "id": 0,
      "sDisplayText": "",
      "sIsPersistentText": "true"
    },
    {
      "iPositionX": 0,
      "iPositionY": 0,
      "iTextOverlayEnabled": 0,
      "id": 1,
      "sDisplayText": "",
      "sIsPersistentText": "true"
    },
    {
      "iPositionX": 0,
      "iPositionY": 0,
      "iTextOverlayEnabled": 0,
      "id": 2,
      "sDisplayText": "",
      "sIsPersistentText": "true"
    },
    {
      "iPositionX": 0,
      "iPositionY": 0,
      "iTextOverlayEnabled": 0,
      "id": 3,
      "sDisplayText": "",
      "sIsPersistentText": "true"
    },
    {
      "iPositionX": 0,
      "iPositionY": 0,
      "iTextOverlayEnabled": 0,
      "id": 4,
      "sDisplayText": "",
      "sIsPersistentText": "true"
    },
    {
      "iPositionX": 0,
      "iPositionY": 0,
      "iTextOverlayEnabled": 0,
      "id": 5,
```

```

        "sDisplayText": "",
        "sIsPersistentText": "true"
    },
    {
        "iPositionX": 0,
        "iPositionY": 0,
        "iTextOverlayEnabled": 0,
        "id": 6,
        "sDisplayText": "",
        "sIsPersistentText": "true"
    },
    {
        "iPositionX": 0,
        "iPositionY": 0,
        "iTextOverlayEnabled": 0,
        "id": 7,
        "sDisplayText": "",
        "sIsPersistentText": "true"
    }
],
"dateTimeOverlay": {
    "iDateTimeOverlayEnabled": 1,
    "iDisplayWeekEnabled": 1,
    "iPositionX": 16,
    "iPositionY": 16,
    "sDateStyle": "CHR-YYYY-MM-DD",
    "sTimeStyle": "24hour"
},
"normalizedScreenSize": {
    "iNormalizedScreenHeight": 480,
    "iNormalizedScreenWidth": 704
}
}
# response
{
    "attribute": {
        "iBoundary": 0,
        "sAlignment": "customize",
        "sOSDAttribute": "transparent/not-flashing",
        "sOSDFontSize": "32*32",
        "sOSDFrontColor": "fff799",
        "sOSDFrontColorMode": "customize"
    },
    "channelNameOverlay": {
        "iChannelNameOverlayEnabled": 1,
        "iPositionX": 560,
        "iPositionY": 432,
        "sChannelName": "Camera 01"
    },
    "characterOverlay": [
        {
            "iPositionX": 0,
            "iPositionY": 0,
            "iTextOverlayEnabled": 0,
            "id": 0,
            "sDisplayText": "",
            "sIsPersistentText": "true"
        },

```

```

{
    "iPositionX": 0,
    "iPositionY": 0,
    "iTextOverlayEnabled": 0,
    "id": 1,
    "sDisplayText": "",
    "sIsPersistentText": "true"
},
{
    "iPositionX": 0,
    "iPositionY": 0,
    "iTextOverlayEnabled": 0,
    "id": 2,
    "sDisplayText": "",
    "sIsPersistentText": "true"
},
{
    "iPositionX": 0,
    "iPositionY": 0,
    "iTextOverlayEnabled": 0,
    "id": 3,
    "sDisplayText": "",
    "sIsPersistentText": "true"
},
{
    "iPositionX": 0,
    "iPositionY": 0,
    "iTextOverlayEnabled": 0,
    "id": 4,
    "sDisplayText": "",
    "sIsPersistentText": "true"
},
{
    "iPositionX": 0,
    "iPositionY": 0,
    "iTextOverlayEnabled": 0,
    "id": 5,
    "sDisplayText": "",
    "sIsPersistentText": "true"
},
{
    "iPositionX": 0,
    "iPositionY": 0,
    "iTextOverlayEnabled": 0,
    "id": 6,
    "sDisplayText": "",
    "sIsPersistentText": "true"
},
{
    "iPositionX": 0,
    "iPositionY": 0,
    "iTextOverlayEnabled": 0,
    "id": 7,
    "sDisplayText": "",
    "sIsPersistentText": "true"
}
],
"dateTimeOverlay": {

```

```

        "iDateTimeOverlayEnabled": 1,
        "iDisplayWeekEnabled": 1,
        "iPositionX": 16,
        "iPositionY": 16,
        "sDateStyle": "CHR-YYYY-MM-DD",
        "sTimeStyle": "24hour"
    },
    "normalizedScreenSize": {
        "iNormalizedScreenHeight": 480,
        "iNormalizedScreenWidth": 704
    }
}

```

## 9.2 image

```

# GET /osd/image 获取图像遮盖配置
# response
{
    "imageOverlay": {
        "iImageHeight": 80,
        "iImageOverlayEnabled": 1,
        "iImageWidth": 160,
        "iPositionX": 16,
        "iPositionY": 388,
        "iTransparentColorEnabled": 0
    },
    "normalizedScreenSize": {
        "iNormalizedScreenHeight": 480,
        "iNormalizedScreenWidth": 704
    }
}

# POST/PUT /osd/image 配置图像遮盖
# request
{
    "imageOverlay": {
        "iImageHeight": 80,
        "iImageOverlayEnabled": 1,
        "iImageWidth": 160,
        "iPositionX": 16,
        "iPositionY": 388,
        "iTransparentColorEnabled": 0
    },
    "normalizedScreenSize": {
        "iNormalizedScreenHeight": 480,
        "iNormalizedScreenWidth": 704
    }
}

# response
{
    "imageOverlay": {
        "iImageHeight": 80,
        "iImageOverlayEnabled": 1,
        "iImageWidth": 160,
        "iPositionX": 16,

```

```

        "iPositionY": 388,
        "iTransparentColorEnabled": 0
    },
    "normalizedScreenSize": {
        "iNormalizedScreenHeight": 480,
        "iNormalizedScreenWidth": 704
    }
}

# POST/PUT image/picture 设置遮盖图像
# request 图像须为64bit, 宽高16对齐, 大小小于256KB的bmp图像, 传输格式如下
Content-Type: multipart/form-data
# response
{}

```

## 9.3 privacy-mask

```

# GET /osd/privacy-mask 获取隐私遮盖配置
# response
{
    "normalizedScreenSize": {
        "iNormalizedScreenHeight": 480,
        "iNormalizedScreenWidth": 704
    },
    "privacyMask": [
        {
            "iMaskHeight": 0,
            "iMaskWidth": 0,
            "iPositionX": 0,
            "iPositionY": 0,
            "iPrivacyMaskEnabled": 0,
            "id": 0
        },
        {
            "iMaskHeight": 0,
            "iMaskWidth": 0,
            "iPositionX": 0,
            "iPositionY": 0,
            "iPrivacyMaskEnabled": 0,
            "id": 1
        },
        {
            "iMaskHeight": 0,
            "iMaskWidth": 0,
            "iPositionX": 0,
            "iPositionY": 0,
            "iPrivacyMaskEnabled": 0,
            "id": 2
        },
        {
            "iMaskHeight": 0,
            "iMaskWidth": 0,
            "iPositionX": 0,
            "iPositionY": 0,
            "iPrivacyMaskEnabled": 0,

```

```
        "id": 3
    }
]
}

# POST/PUT /osd/privacy-mask 配置隐私遮盖
# request
{
    "normalizedScreenSize": {
        "iNormalizedScreenHeight": 480,
        "iNormalizedScreenWidth": 704
    },
    "privacyMask": [
        {
            "iMaskHeight": 0,
            "iMaskWidth": 0,
            "iPositionX": 0,
            "iPositionY": 0,
            "iPrivacyMaskEnabled": 0,
            "id": 0
        },
        {
            "iMaskHeight": 0,
            "iMaskWidth": 0,
            "iPositionX": 0,
            "iPositionY": 0,
            "iPrivacyMaskEnabled": 0,
            "id": 1
        },
        {
            "iMaskHeight": 0,
            "iMaskWidth": 0,
            "iPositionX": 0,
            "iPositionY": 0,
            "iPrivacyMaskEnabled": 0,
            "id": 2
        },
        {
            "iMaskHeight": 0,
            "iMaskWidth": 0,
            "iPositionX": 0,
            "iPositionY": 0,
            "iPrivacyMaskEnabled": 0,
            "id": 3
        }
    ]
}

# response
{
    "normalizedScreenSize": {
        "iNormalizedScreenHeight": 480,
        "iNormalizedScreenWidth": 704
    },
    "privacyMask": [
        {
            "iMaskHeight": 0,
            "iMaskWidth": 0,
            "iPositionX": 0,
```

```

        "iPositionY": 0,
        "iPrivacyMaskEnabled": 0,
        "id": 0
    },
    {
        "iMaskHeight": 0,
        "iMaskWidth": 0,
        "iPositionX": 0,
        "iPositionY": 0,
        "iPrivacyMaskEnabled": 0,
        "id": 1
    },
    {
        "iMaskHeight": 0,
        "iMaskWidth": 0,
        "iPositionX": 0,
        "iPositionY": 0,
        "iPrivacyMaskEnabled": 0,
        "id": 2
    },
    {
        "iMaskHeight": 0,
        "iMaskWidth": 0,
        "iPositionX": 0,
        "iPositionY": 0,
        "iPrivacyMaskEnabled": 0,
        "id": 3
    }
]
}

```

## 10. network

---

### 10.1 lan

```

# GET /network/lan 获取局域网配置
# response
{
    "ipv4":{
        "sV4Address":"172.16.21.106",
        "sV4Gateway":"172.16.21.1",
        "sV4Method":"dhcp",
        "sV4Netmask":"255.255.255.0"
    },
    "link":{
        "iDuplex":1,
        "iNicSpeed":1000,
        "iPower":1,
        "sAddress":"fa:40:a4:8b:ad:57",
        "sDNS1":"10.10.10.188",
        "sDNS2":"58.22.96.66",
        "sInterface":"eth0",

```



```
        "sNicSpeed": "Auto",
        "sNicSpeedSupport": "Auto 10baseT/Half 10baseT/Full 100baseT/Half
100baseT/Full 1000baseT/Full "
    }
}

# POST/PUT /network/lan 配置局域网，自动获取IP
# request
{
    "ipv4": {
        "sV4Method": "dhcp"
    },
    "link": {
        "sNicSpeed": "Auto",
        "sDNS1": "10.10.10.188",
        "sDNS2": "58.22.96.66",
    }
}

# response
{
    "ipv4": {
        "sV4Address": "172.16.21.106",
        "sV4Gateway": "172.16.21.1",
        "sV4Method": "dhcp",
        "sV4Netmask": "255.255.255.0"
    },
    "link": {
        "iDuplex": 1,
        "iNicSpeed": 1000,
        "iPower": 1,
        "sAddress": "fa:40:a4:8b:ad:57",
        "sDNS1": "10.10.10.188",
        "sDNS2": "58.22.96.66",
        "sInterface": "eth0",
        "sNicSpeed": "Auto",
        "sNicSpeedSupport": "Auto 10baseT/Half 10baseT/Full 100baseT/Half
100baseT/Full 1000baseT/Full "
    }
}

# POST/PUT /network/lan 配置局域网，手动设置IP
# request
{
    "ipv4": {
        "sV4Address": "172.16.21.106",
        "sV4Gateway": "172.16.21.1",
        "sV4Method": "manual",
        "sV4Netmask": "255.255.255.0"
    },
    "link": {
        "sNicSpeed": "Auto",
        "sDNS1": "10.10.10.188",
        "sDNS2": "58.22.96.66",
    }
}

# response
{
    "ipv4": {
```

```

        "sv4Address": "172.16.21.106",
        "sv4Gateway": "172.16.21.1",
        "sv4Method": "manual",
        "sv4Netmask": "255.255.255.0"
    },
    "link": {
        "iDuplex": 1,
        "iNicSpeed": 1000,
        "iPower": 1,
        "sAddress": "fa:40:a4:8b:ad:57",
        "sDNS1": "10.10.10.188",
        "sDNS2": "58.22.96.66",
        "sInterface": "eth0",
        "sNicSpeed": "Auto",
        "sNicSpeedSupport": "Auto 10baseT/Half 10baseT/Full 100baseT/Half
100baseT/Full 1000baseT/Full "
    }
}

```

## 10.2 wlan

```

# GET /network/wlan 获取无线局域网配置，示例中为未连接Wi-Fi时的配置
# response
{
    "ipv4": {
        "sv4Address": "",
        "sv4Gateway": "",
        "sv4Method": "dhcp",
        "sv4Netmask": ""
    },
    "link": {
        "iDuplex": -1,
        "iNicSpeed": -1,
        "iPower": 0,
        "sAddress": "c0:84:7d:e1:ce:00",
        "sDNS1": "",
        "sDNS2": "",
        "sInterface": "wlan0",
        "sNicSpeed": ""
    }
}

# POST/PUT /network/wlan 配置局域网，自动获取IP
# request
{
    "ipv4": {
        "sv4Method": "dhcp"
    },
    "link": {
        "sDNS1": "",
        "sDNS2": ""
    }
}

# response 为未连接Wi-Fi时的配置
{

```

```

    "ipv4":{
        "sV4Address":"","
        "sV4Gateway":"","
        "sV4Method":"dhcp",
        "sV4Netmask":""
    },
    "link":{
        "iDuplex":-1,
        "iNicSpeed":-1,
        "iPower":0,
        "sAddress":"c0:84:7d:e1:ce:00",
        "sDNS1":"","
        "sDNS2":"","
        "sInterface":"wlan0",
        "sNicSpeed":""
    }
}

# POST/PUT /network/wlan 配置局域网, 手动设置IP
# request
{
    "ipv4":{
        "sV4Address":"172.16.21.106",
        "sV4Gateway":"172.16.21.1",
        "sV4Method":"manual",
        "sV4Netmask":"255.255.255.0"
    },
    "link":{
        "sDNS1":"10.10.10.188",
        "sDNS2":"58.22.96.66",
    }
}

# response 为未连接Wi-Fi时的配置
{
    "ipv4":{
        "sV4Address":"172.16.21.106",
        "sV4Gateway":"172.16.21.1",
        "sV4Method":"manual",
        "sV4Netmask":"255.255.255.0"
    },
    "link":{
        "iDuplex":-1,
        "iNicSpeed":-1,
        "iPower":0,
        "sAddress":"c0:84:7d:e1:ce:00",
        "sDNS1":"10.10.10.188",
        "sDNS2":"58.22.96.66",
        "sInterface":"wlan0",
        "sNicSpeed":""
    }
}
}

```

## 10.3 Wi-Fi

```
# GET /network/wifi 获取Wi-Fi配置
# response
{
    "iPower":0,
    "id":1,
    "sType":"wifi"
}

# POST/PUT /network/wifi?power=on 开启Wi-Fi
# request
null
# response
{
    "iPower":1,
    "id":1,
    "sType":"wifi"
}

# POST/PUT /network/wifi?power=off 关闭Wi-Fi
# request
null
# response
{
    "iPower":0,
    "id":1,
    "sType":"wifi"
}

# POST/PUT /network/wifi 连接Wi-Fi
# request
{
    "sName": "test",
    "sService": "sadgwegwe_sdgas",
    "sPassword": "test",
    "iFavorite": 1,
    "iAutoconnect": 1,
    "sState": "ready",
}
# response
{}

# DELETE /network/wifi?service=sadgwegwe_sdgas 删除Wi-Fi连接设置
# response
{}
```

## 10.4 wifi-list

```
# GET /network/wifi-list 获取扫描到的Wi-Fi列表
# response
[
  {
    "Favorite": 1,
    "Strength": 90,
    "sName": "test"
    "sSecurity": "psk";
    "sService": "sadgwegwe_sdgas";
    "sState": "ready";
    "sType": "wifi";
  }
]
```

## 11. network-ntp

---

```
# GET /network-ntp 获取时间设置
# response
{
  "iAutoDst":0,
  "iAutoMode":1,
  "iRefreshTime":60,
  "id":0,
  "sNtpServers":"122.224.9.29 94.130.49.186",
  "sTimeZone":"ChinaStandardTime-8",
  "sTimeZoneFile":"posix/Etc/GMT-8",
  "sTimeZoneFileDst":"posix/Asia/Shanghai"
}

# PUT/POST /network-ntp 配置时间参数
# request
{
  "iAutoDst":0,
  "iAutoMode":1,
  "iRefreshTime":60,
  "id":0,
  "sNtpServers":"122.224.9.29 94.130.49.186",
  "sTimeZone":"ChinaStandardTime-8",
  "sTimeZoneFile":"posix/Etc/GMT-8",
  "sTimeZoneFileDst":"posix/Asia/Shanghai"
}

# response
{
  "iAutoDst":0,
  "iAutoMode":1,
  "iRefreshTime":60,
  "id":0,
  "sNtpServers":"122.224.9.29 94.130.49.186",
  "sTimeZone":"ChinaStandardTime-8",
  "sTimeZoneFile":"posix/Etc/GMT-8",
  "sTimeZoneFileDst":"posix/Asia/Shanghai"
}
```

## 11.1 time

```
# GET /network-ntp/time 获取设备时间
# response
{
  "time":"2020-09-01T08:38:08"
}

# PUT/POST /network-ntp/time 设置设备时间，自动模式下无需设置
# request
{
  "time":"2020-09-01T08:38:08"
}
# response
{
  "time":"2020-09-01T08:38:08"
}
```

## 12. network-port

---

```
# GET /network-port 获取设备端口
# response
[
  {
    "iPortNo":80,
    "id":0,
    "sProtocol":"HTTP"
  },
  {
    "iPortNo":443,
    "id":1,
    "sProtocol":"HTTPS"
  },
  {
    "iPortNo":8080,
    "id":2,
    "sProtocol":"DEV_MANAGE"
  },
  {
    "iPortNo":554,
    "id":3,
    "sProtocol":"RTSP"
  },
  {
    "iPortNo":1935,
    "id":4,
    "sProtocol":"RTMP"
  }
]

# PUT/POST /network-port/id id为数字，对应获取到的端口id，设置端口
# request
```

```
{
  "iPortNo":80,
  "id":0,
  "sProtocol":"HTTP"
}
# response
{
  "iPortNo":80,
  "id":0,
  "sProtocol":"HTTP"
}
```

## 13. image

---

```
# GET /image 获取ISP配置全部信息
# response
[
  {
    "BLC": {
      "iBLCRegionHeight": 92,
      "iBLCRegionWidth": 120,
      "iHDRLevel": 50,
      "iHLCLevel": 0,
      "iPositionX": 0,
      "iPositionY": 0,
      "iWDRLevel": 0,
      "sBLCRegion": "close",
      "sHDR": "open",
      "sHLC": "close",
      "sWDR": "close"
    },
    "exposure": {
      "iAutoIrisLevel": 5,
      "iExposureGain": 1,
      "sExposureTime": "1/6",
      "sIrisType": "auto"
    },
    "id": 0,
    "imageAdjustment": {
      "iBrightness": 50,
      "iContrast": 50,
      "iSaturation": 50,
      "iSharpness": 50
    },
    "imageEnhancement": {
      "iDehazeLevel": 0,
      "iDenoiseLevel": 0,
      "iImageRotation": 0,
      "iSpatialDenoiseLevel": 0,
      "iTemporalDenoiseLevel": 0,
      "sDIS": "close",
      "sDehaze": "close",
      "sFEC": "close",

```

```

        "sGrayscaleMode": "[0-255]",
        "sNoiseReduceMode": "general"
    },
    "nightToDay": {
        "iDistanceLevel": 1,
        "iLightBrightness": 1,
        "iNightToDayFilterLevel": 5,
        "iNightToDayFilterTime": 5,
        "sBeginTime": "07:00:00",
        "sBrightnessAdjustmentMode": "auto",
        "sEndTime": "18:00:00",
        "sFillLightMode": "IR",
        "sIrcutFilterAction": "day",
        "sNightToDay": "auto",
        "sOverexposeSuppress": "open",
        "sOverexposeSuppressType": "auto"
    },
    "videoAdjustment": {
        "sImageFlip": "close",
        "sPowerLineFrequencyMode": "PAL(50HZ)",
        "sSceneMode": "indoor"
    },
    "whiteBlance": {
        "iWhiteBalanceBlue": 50,
        "iWhiteBalanceRed": 50,
        "sWhiteBlanceStyle": "autoWhiteBalance"
    }
}
]

```

## 13.1 id

```

# GET /image/id id为数字，获取对应通道的ISP配置信息
# response
{
    "BLC": {
        "iBLCRegionHeight": 92,
        "iBLCRegionWidth": 120,
        "iHDRLevel": 50,
        "iHLCLevel": 0,
        "iPositionX": 0,
        "iPositionY": 0,
        "iWDRLevel": 0,
        "sBLCRegion": "close",
        "sHDR": "open",
        "sHLC": "close",
        "sWDR": "close"
    },
    "exposure": {
        "iAutoIrisLevel": 5,
        "iExposureGain": 1,
        "sExposureTime": "1/6",
        "sIrisType": "auto"
    },
    "id": 0,
}

```



```

    "imageAdjustment": {
        "iBrightness": 50,
        "iContrast": 50,
        "iSaturation": 50,
        "iSharpness": 50
    },
    "imageEnhancement": {
        "iDehazeLevel": 0,
        "iDenoiseLevel": 0,
        "iImageRotation": 0,
        "iSpatialDenoiseLevel": 0,
        "iTemporalDenoiseLevel": 0,
        "sDIS": "close",
        "sDehaze": "close",
        "sFEC": "close",
        "sGrayScaleMode": "[0-255]",
        "sNoiseReduceMode": "general"
    },
    "nightToDay": {
        "iDistanceLevel": 1,
        "iLightBrightness": 1,
        "iNightToDayFilterLevel": 5,
        "iNightToDayFilterTime": 5,
        "sBeginTime": "07:00:00",
        "sBrightnessAdjustmentMode": "auto",
        "sEndTime": "18:00:00",
        "sFillLightMode": "IR",
        "sIrcutFilterAction": "day",
        "sNightToDay": "auto",
        "sOverexposeSuppress": "open",
        "sOverexposeSuppressType": "auto"
    },
    "videoAdjustment": {
        "sImageFlip": "close",
        "sPowerLineFrequencyMode": "PAL(50HZ)",
        "sSceneMode": "indoor"
    },
    "whiteBalance": {
        "iWhiteBalanceBlue": 50,
        "iWhiteBalanceRed": 50,
        "sWhiteBalanceStyle": "autoWhiteBalance"
    }
}

# POST/PUT /image/id id为数字，配置对应通道的ISP信息
# request
{
    "BLC": {
        "iBLCRegionHeight": 92,
        "iBLCRegionWidth": 120,
        "iHDRLevel": 50,
        "iHLCLLevel": 0,
        "iPositionX": 0,
        "iPositionY": 0,
        "iWDRLevel": 0,
        "sBLCRegion": "close",
        "sHDR": "open",
        "sHLC": "close",

```

```

        "sWDR": "close"
    },
    "exposure": {
        "iAutoIrisLevel": 5,
        "iExposureGain": 1,
        "sExposureTime": "1/6",
        "sIrisType": "auto"
    },
    "id": 0,
    "imageAdjustment": {
        "iBrightness": 50,
        "iContrast": 50,
        "iSaturation": 50,
        "iSharpness": 50
    },
    "imageEnhancement": {
        "iDehazeLevel": 0,
        "iDenoiseLevel": 0,
        "iImageRotation": 0,
        "iSpatialDenoiseLevel": 0,
        "iTemporalDenoiseLevel": 0,
        "sDIS": "close",
        "sDehaze": "close",
        "sFEC": "close",
        "sGrayScaleMode": "[0-255]",
        "sNoiseReduceMode": "general"
    },
    "nightToDay": {
        "iDistanceLevel": 1,
        "iLightBrightness": 1,
        "iNightToDayFilterLevel": 5,
        "iNightToDayFilterTime": 5,
        "sBeginTime": "07:00:00",
        "sBrightnessAdjustmentMode": "auto",
        "sEndTime": "18:00:00",
        "sFillLightMode": "IR",
        "sIrcutFilterAction": "day",
        "sNightToDay": "auto",
        "sOverexposeSuppress": "open",
        "sOverexposeSuppressType": "auto"
    },
    "videoAdjustment": {
        "sImageFlip": "close",
        "sPowerLineFrequencyMode": "PAL(50HZ)",
        "sSceneMode": "indoor"
    },
    "whiteBalance": {
        "iWhiteBalanceBlue": 50,
        "iWhiteBalanceRed": 50,
        "sWhiteBalanceStyle": "autoWhiteBalance"
    }
}

# response
{
    "BLC": {
        "iBLCRegionHeight": 92,
        "iBLCRegionWidth": 120,
        "iHDRLevel": 50,

```

```
    "iHLCLevel": 0,
    "iPositionX": 0,
    "iPositionY": 0,
    "iWDRLevel": 0,
    "sBLCRegion": "close",
    "sHDR": "open",
    "sHLC": "close",
    "sWDR": "close"
  },
  "exposure": {
    "iAutoIrisLevel": 5,
    "iExposureGain": 1,
    "sExposureTime": "1/6",
    "sIrisType": "auto"
  },
  "id": 0,
  "imageAdjustment": {
    "iBrightness": 50,
    "iContrast": 50,
    "iSaturation": 50,
    "iSharpness": 50
  },
  "imageEnhancement": {
    "iDehazeLevel": 0,
    "iDenoiseLevel": 0,
    "iImageRotation": 0,
    "iSpatialDenoiseLevel": 0,
    "iTemporalDenoiseLevel": 0,
    "sDIS": "close",
    "sDehaze": "close",
    "sFEC": "close",
    "sGrayScaleMode": "[0-255]",
    "sNoiseReduceMode": "general"
  },
  "nightToDay": {
    "iDistanceLevel": 1,
    "iLightBrightness": 1,
    "iNightToDayFilterLevel": 5,
    "iNightToDayFilterTime": 5,
    "sBeginTime": "07:00:00",
    "sBrightnessAdjustmentMode": "auto",
    "sEndTime": "18:00:00",
    "sFillLightMode": "IR",
    "sIrcutFilterAction": "day",
    "sNightToDay": "auto",
    "sOverexposeSuppress": "open",
    "sOverexposeSuppressType": "auto"
  },
  "videoAdjustment": {
    "sImageFlip": "close",
    "sPowerLineFrequencyMode": "PAL(50HZ)",
    "sSceneMode": "indoor"
  },
  "whiteBalance": {
    "iWhiteBalanceBlue": 50,
    "iWhiteBalanceRed": 50,
    "sWhiteBalanceStyle": "autoWhiteBalance"
  }
}
```

```

}

# GET /image/id/type id为数字，获取对应通道的ISP配置对应type信息，以/image/0/blc为例
# response
{
    "iBLCRegionHeight": 92,
    "iBLCRegionWidth": 120,
    "iHDRLevel": 50,
    "iHLCLLevel": 0,
    "iPositionX": 0,
    "iPositionY": 0,
    "iWDRLevel": 0,
    "sBLCRegion": "close",
    "sHDR": "open",
    "sHLC": "close",
    "sWDR": "close"
}

# POST/PUT /image/id/type id为数字，配置对应通道的ISP对应type信息，以/image/0/blc为例
# request
{
    "iBLCRegionHeight": 92,
    "iBLCRegionWidth": 120,
    "iHDRLevel": 50,
    "iHLCLLevel": 0,
    "iPositionX": 0,
    "iPositionY": 0,
    "iWDRLevel": 0,
    "sBLCRegion": "close",
    "sHDR": "open",
    "sHLC": "close",
    "sWDR": "close"
}

# response
{
    "iBLCRegionHeight": 92,
    "iBLCRegionWidth": 120,
    "iHDRLevel": 50,
    "iHLCLLevel": 0,
    "iPositionX": 0,
    "iPositionY": 0,
    "iWDRLevel": 0,
    "sBLCRegion": "close",
    "sHDR": "open",
    "sHLC": "close",
    "sWDR": "close"
}

```

## 14. event

---

## 14.1 triggers

```
# GET /event/triggers/vmd_0 获取移动侦测联动方式配置
# response
{
    "iNotificationCenterEnabled": 0,
    "iNotificationEmailEnabled": 0,
    "iNotificationFTPEnabled": 0,
    "iNotificationIOEnabled": 0,
    "iNotificationRecordEnabled": 0,
    "iVideoInputChannelID": 0,
    "id": 0,
    "sEventType": "VMD"
}

# POST/PUT /event/triggers/vmd_0 配置移动侦测联动方式
# request
{
    "iNotificationCenterEnabled": 0,
    "iNotificationEmailEnabled": 0,
    "iNotificationFTPEnabled": 0,
    "iNotificationIOEnabled": 0,
    "iNotificationRecordEnabled": 0,
    "iVideoInputChannelID": 0,
    "id": 0,
    "sEventType": "VMD"
}
# response
{
    "iNotificationCenterEnabled": 0,
    "iNotificationEmailEnabled": 0,
    "iNotificationFTPEnabled": 0,
    "iNotificationIOEnabled": 0,
    "iNotificationRecordEnabled": 0,
    "iVideoInputChannelID": 0,
    "id": 0,
    "sEventType": "VMD"
}

# GET /event/triggers/vri_0 获取区域入侵联动方式配置
# response
{
    "iNotificationCenterEnabled": 0,
    "iNotificationEmailEnabled": 0,
    "iNotificationFTPEnabled": 0,
    "iNotificationIOEnabled": 0,
    "iNotificationRecordEnabled": 0,
    "iVideoInputChannelID": 0,
    "id": 1,
    "sEventType": "VRI"
}

# POST/PUT /event/triggers/vri_0 配置区域入侵联动方式
# request
{
    "iNotificationCenterEnabled": 0,
```

```

        "iNotificationEmailEnabled": 0,
        "iNotificationFTPEEnabled": 0,
        "iNotificationIOIEnabled": 0,
        "iNotificationRecord1Enabled": 0,
        "iVideoInputChannelID": 0,
        "id": 0,
        "sEventType": "VMD"
    }
# response
{
    "iNotificationCenterEnabled": 0,
    "iNotificationEmailEnabled": 0,
    "iNotificationFTPEEnabled": 0,
    "iNotificationIOIEnabled": 0,
    "iNotificationRecord1Enabled": 0,
    "iVideoInputChannelID": 0,
    "id": 0,
    "sEventType": "VMD"
}

```

## 14.2 schedules

```

# GET /event/schedules/motion 获取移动侦测布防时间配置
# response json字符串
{
    "sSchedulesJson": "[[], [], [], [], [], [], []]"
}

# POST/PUT /event/schedules/motion 配置移动侦测布防时间
# request json字符串
{
    "sSchedulesJson": "[[], [], [], [], [], [], []]"
}
# response json字符串
{
    "sSchedulesJson": "[[], [], [], [], [], [], []]"
}

# GET /event/schedules/intrusion 获取区域入侵布防时间配置
# response json字符串
{
    "sSchedulesJson": "[[], [], [], [], [], [], []]"
}

# POST/PUT /event/schedules/motion 配置区域入侵布防时间
# request json字符串
{
    "sSchedulesJson": "[[], [], [], [], [], [], []]"
}
# response json字符串
{
    "sSchedulesJson": "[[], [], [], [], [], [], []]"
}

# GET /event/schedules/video-plan 获取录像计划布防时间配置

```

```

# response json字符串
{
    "sSchedulesJson": "[[], [], [], [], [], [], []]"
}

# POST/PUT /event/schedules/motion 配置录像计划布防时间
# request json字符串
{
    "sSchedulesJson": "[[], [], [], [], [], [], []]"
}
# response json字符串
{
    "sSchedulesJson": "[[], [], [], [], [], [], []]"
}

# GET /event/schedules/screenshot 获取抓图计划布防时间配置
# response json字符串
{
    "sSchedulesJson": "[[], [], [], [], [], [], []]"
}

# POST/PUT /event/schedules/motion 配置抓图计划布防时间
# request json字符串
{
    "sSchedulesJson": "[[], [], [], [], [], [], []]"
}
# response json字符串
{
    "sSchedulesJson": "[[], [], [], [], [], [], []]"
}

```

下述为sSchedulesJson解析方式:

eg: `[[{"start":0.3134548611111111,"end":0.6328993055555551,"type":"timing"}],[],[],[],[],[],[]]`

- 1.整体为一个json数组包含7个json小数组，小数组按顺序代表星期一至星期日的布防时间配置；
- 2.每个小数组中包含最多8个字典，为布防单元，单元中的浮点数为布防时间秒数/24小时秒数得到，如开始时间为早上8点，则start为 $(8 \times 60 \times 60) / (24 \times 60 \times 60) = 0.3333333333333333$ ；
- 3.type为布防类型，除录像计划/抓图计划外其他布防单元不携带type；

## 14.3 motion-detection

```

# GET /event/motion-detection/0 获取移动侦测配置
# response
{
    "iColumnGranularity": 22,
    "iEndTriggerTime": 500,
    "iHighlightEnabled": 0,
    "iMotionDetectionEnabled": 0,
    "iRowGranularity": 18,
    "iSamplingInterval": 2,
    "iSensitivityLevel": 1,
    "iStartTriggerTime": 500,
    "id": 0,

```

[illegible]

## 14.4 regional-invasion

```
# GET /event/regional-invasion/0 获取区域入侵配置
# response
{
  "normalizedScreenSize": {
    "iNormalizedScreenHeight": 480,
    "iNormalizedScreenWidth": 704
  },
  "regionalInvasion": {
    "iEnabled": 0,
    "iHeight": 0,
    "iPositionX": 0,
    "iPositionY": 0,
    "iProportion": 0,
    "iSensitivityLevel": 50,
    "iTimeThreshold": 0,
  }
}
```



```

        "iWidth": 0
    }
}

# POST/PUT /event/regional-invasion/0 配置区域入侵
# request
{
    "normalizedScreenSize": {
        "iNormalizedScreenHeight": 480,
        "iNormalizedScreenWidth": 704
    },
    "regionalInvasion": {
        "iEnabled": 0,
        "iHeight": 0,
        "iPositionX": 0,
        "iPositionY": 0,
        "iProportion": 0,
        "iSensitivityLevel": 50,
        "iTimeThreshold": 0,
        "iWidth": 0
    }
}

# response
{
    "normalizedScreenSize": {
        "iNormalizedScreenHeight": 480,
        "iNormalizedScreenWidth": 704
    },
    "regionalInvasion": {
        "iEnabled": 0,
        "iHeight": 0,
        "iPositionX": 0,
        "iPositionY": 0,
        "iProportion": 0,
        "iSensitivityLevel": 50,
        "iTimeThreshold": 0,
        "iWidth": 0
    }
}

```

## 14.5 face-list

```

# GET /event/face-list 获取所有已注册人脸信息
# response
[
    {
        "iAccessCardNumber": 11,
        "iAge": 50,
        "iFaceDBId": 1,
        "iLoadCompleted": 1,
        "id": 0,
        "sAddress": "",
        "sBirthday": "1970-01-01",
        "sCertificateNumber": "",
        "sCertificateType": "identityCard",
    }
]

```

```

        "sGender": "male",
        "sHometown": "",
        "sListType": "permanent",
        "sName": "test",
        "sNation": "汉族",
        "sNote": "",
        "sPicturePath": "/userdata/media/white_list/test_0.jpg",
        "sRegistrationTime": "2020-08-27T16:11:06",
        "sTelephoneNumber": "",
        "sType": "whiteList"
    }
]

# POST/PUT /event/face-config?search=condition 条件查询已注册人脸信息
# request
{
    "beginTime": "1970-01-01T00:00:00",
    "endTime": "2020-08-29T23:59:59",
    "type": "all",
    "gender": "all",
    "minAge": 0,
    "maxAge": 100,
    "accessCardNumber": 0,
    "beginPosition": 0,
    "endPosition": 19
}
# response
{
    "matchList": [
        {
            "iAccessCardNumber": 11,
            "iAge": 50,
            "iFaceDBId": 1,
            "iLoadCompleted": 1,
            "id": 0,
            "sAddress": "",
            "sBirthday": "1970-01-01",
            "sCertificateNumber": "",
            "sCertificateType": "identityCard",
            "sGender": "male",
            "sHometown": "",
            "sListType": "permanent",
            "sName": "test",
            "sNation": "汉族",
            "sNote": "",
            "sPicturePath": "/userdata/media/white_list/test_0.jpg",
            "sRegistrationTime": "2020-08-27T16:11:06",
            "sTelephoneNumber": "",
            "sType": "whiteList"
        }
    ],
    "numOfMatches": 1
}

# POST/PUT /event/face-config?search=name 姓名模糊查询已注册人脸信息
# request
{
    "name": "t",

```

```

        "beginPosition":0,
        "endPosition":19
    }
    # response
    {
        "matchList":[
            {
                "iAccessCardNumber": 11,
                "iAge": 50,
                "iFaceDBId": 1,
                "iLoadCompleted": 1,
                "id": 0,
                "sAddress": "",
                "sBirthday": "1970-01-01",
                "sCertificateNumber": "",
                "sCertificateType": "identityCard",
                "sGender": "male",
                "sHometown": "",
                "sListType": "permanent",
                "sName": "test",
                "sNation": "汉族",
                "sNote": "",
                "sPicturePath": "/userdata/media/white_list/test_0.jpg",
                "sRegistrationTime": "2020-08-27T16:11:06",
                "sTelephoneNumber": "",
                "sType": "whiteList"
            }
        ],
        "numOfMatches":1
    }

```

## 14.6 face

```

# GET /event/face/id id为数字，获取对应id的人脸信息
# response
{
    "iAccessCardNumber": 11,
    "iAge": 50,
    "iFaceDBId": 1,
    "iLoadCompleted": 1,
    "id": 0,
    "sAddress": "",
    "sBirthday": "1970-01-01",
    "sCertificateNumber": "",
    "sCertificateType": "identityCard",
    "sGender": "male",
    "sHometown": "",
    "sListType": "permanent",
    "sName": "test",
    "sNation": "汉族",
    "sNote": "",
    "sPicturePath": "/userdata/media/white_list/test_0.jpg",
    "sRegistrationTime": "2020-08-27T16:11:06",
    "sTelephoneNumber": "",
    "sType": "whiteList"
}

```

```

}

# POST/PUT /event/face 人脸注册，返回人脸照片上传地址
# request
{
    "iAccessCardNumber":0,
    "sTelephoneNumber":"","
    "sAddress":"","
    "sBirthday":"1970-01-01",
    "sCertificateNumber":"","
    "sCertificateType":"identityCard",
    "sGender":"male",
    "sHometown":"","
    "sListType":"permanent",
    "sName":"test",
    "sNation":"汉族",
    "sNote":"undone",
    "sType":"whiteList",
    "iFaceDBId":-2
}

# response
{
    "id":2,
    "sPicturePath":"/userdata/media/white_list/test_2.jpg"
}

# POST/PUT /event/face/id id为数字，修改对应id的人脸信息
# request
{
    "iAccessCardNumber":0,
    "sTelephoneNumber":"","
    "sAddress":"","
    "sBirthday":"1970-01-01",
    "sCertificateNumber":"","
    "sCertificateType":"identityCard",
    "sGender":"male",
    "sHometown":"","
    "sListType":"permanent",
    "sName":"test",
    "sNation":"汉族",
    "sNote":"undone",
    "sType":"whiteList"
}

# response
{
    "iAccessCardNumber":0,
    "iAge":50,
    "iFaceDBId":2,
    "iLoadCompleted":1,
    "id":1,
    "sAddress":"","
    "sBirthday":"1970-01-01",
    "sCertificateNumber":"","
    "sCertificateType":"identityCard",
    "sGender":"male",
    "sHometown":"","
    "sListType":"permanent",
    "sName":"test",

```

```

    "sNation": "汉族",
    "sNote": "undone",
    "sPicturePath": "/userdata/media/white_list/test_1.jpg",
    "sRegistrationTime": "2020-08-29T16:06:52",
    "sTelephoneNumber": "",
    "sType": "whiteList"
}

# DELETE /event/face/id id为数字，删除对应id的人脸信息
# response
{}

```

## 14.7 face-config

```

# GET /event/face-config 获取人脸参数配置（闸机）
# response
{
    "iDetectHeight": 1280,
    "iDetectWidth": 720,
    "iFaceDetectionThreshold": 55,
    "iFaceMinPixel": 144,
    "iFaceRecognitionThreshold": 50,
    "iLeftCornerX": 0,
    "iLeftCornerY": 0,
    "iLiveDetectThreshold": 50,
    "iNormalizedHeight": 1280,
    "iNormalizedWidth": 720,
    "iPromptVolume": 50,
    "id": 0,
    "sLiveDetect": "open",
    "sLiveDetectBeginTime": "00:00",
    "sLiveDetectEndTime": "23:59"
}

# POST/PUT /event/face-config 配置人脸参数
# request
{
    "iDetectHeight": 1280,
    "iDetectWidth": 720,
    "iFaceDetectionThreshold": 55,
    "iFaceMinPixel": 144,
    "iFaceRecognitionThreshold": 50,
    "iLeftCornerX": 0,
    "iLeftCornerY": 0,
    "iLiveDetectThreshold": 50,
    "iNormalizedHeight": 1280,
    "iNormalizedWidth": 720,
    "iPromptVolume": 50,
    "id": 0,
    "sLiveDetect": "open",
    "sLiveDetectBeginTime": "00:00",
    "sLiveDetectEndTime": "23:59"
}

# response
{

```

```

    "iDetectHeight": 1280,
    "iDetectWidth": 720,
    "iFaceDetectionThreshold": 55,
    "iFaceMinPixel": 144,
    "iFaceRecognitionThreshold": 50,
    "iLeftCornerX": 0,
    "iLeftCornerY": 0,
    "iLiveDetectThreshold": 50,
    "iNormalizedHeight": 1280,
    "iNormalizedWidth": 720,
    "iPromptVolume": 50,
    "id": 0,
    "sLiveDetect": "open",
    "sLiveDetectBeginTime": "00:00",
    "sLiveDetectEndTime": "23:59"
}

```

## 14.8 face-waiting

```

# GET /event/face-waiting 获取注册中的照片数量
# response
{
    "numOfWaiting": 0
}

```

## 14.9 smart

```

# GET /event/smart/cover 获取人脸配置（IPC）
# response iFaceEnabled: 人脸检测启用, iFaceRecognitionEnabled: 人脸识别启用,
iImageOverlayEnabled: 报警抓图叠加开启, iStreamOverlayEnabled: 码流叠加开启
{
    "iBodyHeightRatio": 100,
    "iFaceEnabled": 0,
    "iFaceHeightRatio": 100,
    "iFaceRecognitionEnabled": 0,
    "iImageOverlayEnabled": 0,
    "iInfoOverlayEnabled": 0,
    "iStreamOverlayEnabled": 0,
    "iWidthRatio": 100,
    "id": 0,
    "infoOverlay": [
        {
            "iEnabled": 0,
            "iOrder": 0,
            "id": 0,
            "sInfo": "",
            "sName": "deviceNum"
        },
        {
            "iEnabled": 0,
            "iOrder": 1,
            "id": 1,

```

```

        "sInfo": "",
        "sName": "snapTime"
    },
    {
        "iEnabled": 0,
        "iOrder": 2,
        "id": 2,
        "sInfo": "",
        "sName": "positonInfo"
    }
],
"sImageQuality": "good",
"sTargetImageType": "head"
}

# POST/PUT /event/smart/cover 配置人脸 (IPC)
# request
{
    "iBodyHeightRatio": 100,
    "iFaceEnabled": 0,
    "iFaceHeightRatio": 100,
    "iFaceRecognitionEnabled": 0,
    "iImageOverlayEnabled": 0,
    "iInfoOverlayEnabled": 0,
    "iStreamOverlayEnabled": 0,
    "iWidthRatio": 100,
    "id": 0,
    "infoOverlay": [
        {
            "iEnabled": 0,
            "iOrder": 0,
            "id": 0,
            "sInfo": "",
            "sName": "deviceNum"
        },
        {
            "iEnabled": 0,
            "iOrder": 1,
            "id": 1,
            "sInfo": "",
            "sName": "snapTime"
        },
        {
            "iEnabled": 0,
            "iOrder": 2,
            "id": 2,
            "sInfo": "",
            "sName": "positonInfo"
        }
    ],
    "sImageQuality": "good",
    "sTargetImageType": "head"
}

# response
{
    "iBodyHeightRatio": 100,
    "iFaceEnabled": 0,
    "iFaceHeightRatio": 100,

```

```

    "iFaceRecognitionEnabled": 0,
    "iImageOverlayEnabled": 0,
    "iInfoOverlayEnabled": 0,
    "iStreamOverlayEnabled": 0,
    "iWidthRatio": 100,
    "id": 0,
    "infoOverlay": [
      {
        "iEnabled": 0,
        "iOrder": 0,
        "id": 0,
        "sInfo": "",
        "sName": "deviceNum"
      },
      {
        "iEnabled": 0,
        "iOrder": 1,
        "id": 1,
        "sInfo": "",
        "sName": "snapTime"
      },
      {
        "iEnabled": 0,
        "iOrder": 2,
        "id": 2,
        "sInfo": "",
        "sName": "positonInfo"
      }
    ],
    "sImageQuality": "good",
    "sTargetImageType": "head"
  }
}

```

## 14.10 get-record-status

```

# GET /event/get-record-status 获取录像状态
# response 0未录像, 1录像中
0

```

## 14.11 last-face

```

# GET /event/last-face 获取已注册人脸信息中最后一个的id
# response
{
  "id": 0
}

```



## 14.12 snapshot-record

```
# POST/PUT /event/snapshot-record 条件查询抓拍记录
# request
{
  "beginTime":"1970-01-01T00:00:00",
  "endTime":"2020-08-29T23:59:59",
  "beginPosition":0,
  "endPosition":19
}
# response
{
  "matchList":[
    {
      "id": 0,
      "sNote": "",
      "sPicturePath": "test.jpg",
      "sStatus": "process",
      "sTime": "2020-08-27T16:11:06",
      "sSnapshotName": "test"
    }
  ],
  "numOfMatches":1
}

# DELETE /event/snapshot-record/id id为数字, 删除对应id的抓拍记录
# response
{}
```

## 14.13 control-record

```
# POST/PUT /event/control-record?search=condition 条件查询控制记录
# request
{
  "beginTime":"1970-01-01T00:00:00",
  "endTime":"2020-08-29T23:59:59",
  "type":"all",
  "gender":"all",
  "minAge":0,
  "maxAge":100,
  "accessCardNumber":0,
  "beginPosition":0,
  "endPosition":19
}
# response
{
  "matchList":[
    {
      "iAccessCardNumber":0,
      "iAge":50,
      "iFaceDBId":2,
      "iFaceId":2,
      "iLoadCompleted":1,
      "id":1,
      "sAddress":""
    }
  ]
}
```

```

        "sBirthday": "1970-01-01",
        "sCertificateNumber": "",
        "sCertificateType": "identityCard",
        "sGender": "male",
        "sHometown": "",
        "sListType": "permanent",
        "sName": "test",
        "sNation": "汉族",
        "sNote": "",
        "sPicturePath": "http://172.16.21.106/userdata/white_list/test_1.jpg",
        "sRegistrationTime": "2020-08-29T15:33:41",
        "sSimilarity": "0.4",
        "sSnapshotName": "",
        "sSnapshotPath": "http://172.16.21.106",
        "sStatus": "Processed",
        "sTelephoneNumber": "",
        "sTime": "2020-08-29T15:33:46",
        "sType": "whiteList"
    }
],
    "numOfMatches": 1
}

# POST/PUT /event/control-record?search=name 姓名模糊查询控制记录
# request
{
    "name": "t",
    "beginPosition": 0,
    "endPosition": 19
}
# response
{
    "matchList": [
        {
            "iAccessCardNumber": 0,
            "iAge": 50,
            "iFaceDBId": 2,
            "iFaceId": 2,
            "iLoadCompleted": 1,
            "id": 1,
            "sAddress": "",
            "sBirthday": "1970-01-01",
            "sCertificateNumber": "",
            "sCertificateType": "identityCard",
            "sGender": "male",
            "sHometown": "",
            "sListType": "permanent",
            "sName": "test",
            "sNation": "汉族",
            "sNote": "",
            "sPicturePath": "http://172.16.21.106/userdata/white_list/test_1.jpg",
            "sRegistrationTime": "2020-08-29T15:33:41",
            "sSimilarity": "0.4",
            "sSnapshotName": "",
            "sSnapshotPath": "http://172.16.21.106",
            "sStatus": "Processed",
            "sTelephoneNumber": "",
            "sTime": "2020-08-29T15:33:46",

```

```
        "sType":"whiteList"
    }
],
    "numOfMatches":1
}

# DELETE /event/control-record/id id为数字，删除对应id的控制记录
# response
{}
```

## 14.14 check-face

```
# POST/PUT /event/check-face?id=0 人脸数据检查，检查id大于0的人脸注册是否成功，若存在失败则删除并返回失败结果
# request
null
# response
[
    {
        "iLoadCompleted":-1,
        "sName":"test",
        "sPicturePath":"http://172.16.21.106/userdata/white_list/test_1.jpg",
    }
]
```

## 14.15 reset-face

```
# POST/PUT /event/reset-face 重置人脸数据库
# request
null
# response
{}
```

## 14.16 reset-snap

```
# POST/PUT /event/reset-snap 重置抓拍记录
# request
null
# response
{}
```

## 14.17 reset-control

```
# POST/PUT /event/reset-control 重置控制记录
# request
null
# response
{}
```

## 14.18 face-picture

```
# POST/PUT /event/face-picture?path=address address地址字符串，上传人脸图像
# request
Content-Type: multipart/form-data
Form Data: 照片数据
# response
{}

# POST/PUT /event/face-picture?copy-path=address address地址字符串，复制人脸图像到
address
# request
{
    "path": "old_address"
}
# response
{}
```

## 14.19 take-photo

```
# POST/PUT /event/take-photo 抓拍主码流
# request
null
# response
{}
```

## 14.20 start-record

```
# POST/PUT /event/start-record 开始录像
# request
null
# response
{}
```

## 14.21 stop-record

```
# POST/PUT /event/stop-record 停止录像
# request
null
# response
{}
```

## 15. audio

---

```
# GET audio/0 获取音频配置
# response
{
  "iBitRate":32000,
  "iSampleRate":16000,
  "iVolume":50,
  "id":0,
  "sANS":"close",
  "sEncodeType":"MP2",
  "sInput":"micIn"
}

# POST/PUT audio/0 配置音频参数
# request
{
  "iBitRate":32000,
  "iSampleRate":16000,
  "iVolume":50,
  "id":0,
  "sANS":"close",
  "sEncodeType":"MP2",
  "sInput":"micIn"
}
# response
{
  "iBitRate":32000,
  "iSampleRate":16000,
  "iVolume":50,
  "id":0,
  "sANS":"close",
  "sEncodeType":"MP2",
  "sInput":"micIn"
}
```

## 16. 常见异常响应

---

## 16.1 401

```
1.cookie过期，需重新登录申请cookie
{
  "error": {
    "code": 401,
    "message": "token verification failed: not found cookie"
  }
}

2.cookie中携带登录信息错误，需重新登录申请cookie
{
  "error": {
    "code": 401,
    "message": "Unauthorized"
  }
}
```

## 16.2 500

```
1.request中携带的json存在数据类型错误
{
  "error": {
    "code": 500,
    "message": "json.exception.type_error.304"
  }
}

2.请求的id或key不在规定范围内
{
  "error": {
    "code": 500,
    "message": "json.exception.out_of_range.403"
  }
}
```

## 16.3 501

```
1. 无效URL
{
  "error": {
    "code": 501,
    "message": "Not Implemented"
  }
}
```

