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

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1. 须知

- 1.本文中所提供URL均省略 $\underline{\text{http://{\{IP\}\}/cgi-bin/entry.cgi}}}$,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
<u> 登录</u>	登录,并获取cookie。
用户管理	用户注册,修改,删除。
<u>获取视频流</u>	获取各个码流的RTSP/RTMP URL。
<u>重启</u>	重启设备。
恢复出厂设置	数据库恢复出厂配置。
<u>远程升级</u>	1.申请断点续传id; 2.查询剩余容量是否满足升级; 3.断点续传上传升级文件; 4.发送完成信号; 5.发送查询信号检测是否完成升级; 6.删除升级文件。
获取/配置视频编码	获取以及配置视频编码参数,如分辨率、图像质量、编码。
获取/配置局域网	获取和配置局域网,如IP,子网掩码。
WiFi配置	1. <u>WiFi基础配置</u> ; 2. <u>WiFi信息及连接</u> 。
端口设置	获取及配置设备端口。
时间设置	获取及配置设备时间,如时区,设备时间。
ISP配置	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。
OSD字符	OSD字符样式,字符内容的获取与配置。

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

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
```

```
# requeset
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
# requeset
null
```

3.7 factory-reset

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

3.8 export-log

```
# POST/PUT /system/export-log 导出log
# requeset
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
# requeset 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
# requeset
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
# requset 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

```
"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,
"id":2,
"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,
    "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
# requset
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

7. roi

```
"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,
       "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"
  }
]
# 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,
   "iROIEnabled": 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,
        "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
   }
}
# 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

```
"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": "manaual",
       "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": "manaual",
        "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": "manaual",
       "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": "manaual",
       "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":""
   }
```

```
# 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

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,
   "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"
    },
    "whiteBlance": {
        "iWhiteBalanceBlue": 50,
        "iWhiteBalanceRed": 50,
        "sWhiteBlanceStyle": "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,
        "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"
   }
# 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"
```

```
# 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,
   "iHLCLevel": 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,
   "iHLCLevel": 0,
   "iPositionX": 0,
   "iPositionY": 0,
   "iWDRLevel": 0,
   "sBLCRegion": "close",
   "sHDR": "open",
   "sHLC": "close",
   "sWDR": "close"
}
# response
{
   "iBLCRegionHeight": 92,
   "iBLCRegionWidth": 120,
   "iHDRLevel": 50,
   "iHLCLevel": 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,
   "iNotificationIO1Enabled": 0,
   "iNotificationRecord1Enabled": 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,
   "iNotificationIO1Enabled": 0,
   "iNotificationRecord1Enabled": 0,
   "iVideoInputChannelID": 0,
   "id": 0,
   "sEventType": "VMD"
# response
{
   "iNotificationCenterEnabled": 0,
   "iNotificationEmailEnabled": 0,
   "iNotificationFTPEnabled": 0,
   "iNotificationIO1Enabled": 0,
   "iNotificationRecord1Enabled": 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,
   "iNotificationIO1Enabled": 0,
   "iNotificationRecord1Enabled": 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,
   "iNotificationFTPEnabled": 0,
   "iNotificationIO1Enabled": 0,
   "iNotificationRecord1Enabled": 0,
   "iVideoInputChannelID": 0,
   "id": 0,
   "sEventType": "VMD"
}
# response
{
   "iNotificationCenterEnabled": 0,
   "iNotificationEmailEnabled": 0,
   "iNotificationFTPEnabled": 0,
   "iNotificationIO1Enabled": 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":0.632899305555551,"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;
- 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,
```

```
"sGridMap": "",
   "sRegionType": "grid"
}
# POST/PUT /event/motion-detection/0 配置移动侦测
# request sGridMap为16进制布防区域,需将其转为二进制。从左至右从上至下,罗列于
iColumnGranularity*iRowGranularity个单元格内,0表示该单元格不进行移动侦测检测,1表示进行。
全部单元格布满所有可检测区域。
   "iColumnGranularity": 22,
   "iEndTriggerTime": 500,
   "iHighlightEnabled": 0,
   "iMotionDetectionEnabled": 0,
   "iRowGranularity": 18,
   "iSamplingInterval": 2,
   "iSensitivityLevel": 1,
   "iStartTriggerTime": 500,
   "id": 0,
   "sGridMap":
f800000000000000000000000000000",
   "sRegionType": "grid"
# response
   "iColumnGranularity": 22,
   "iEndTriggerTime": 500,
   "iHighlightEnabled": 0,
   "iMotionDetectionEnabled": 0,
   "iRowGranularity": 18,
   "iSamplingInterval": 2,
   "iSensitivityLevel": 1,
   "iStartTriggerTime": 500,
   "id": 0,
   "sGridMap": "",
   "sRegionType": "grid"
```

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"
       }
   1,
   "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,
   "sLiveDetectTect": "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

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

```
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"
    }
}
```