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
RV1126, RV1109	Linux 4.19
RK1808, RK1806	Linux 4.4

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	Allen Chen	2020-08-29	初始版本
V1.0.1	Ruby Zhang	2021-03-15	完善产品版本信息

目录

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
登录	登录，并获取cookie。
用户管理	用户注册，修改，删除。
获取视频流	获取各个码流的RTSP/RTMP URL。
重启	重启设备。
恢复出厂设置	数据库恢复出厂配置。
远程升级	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.WiFi基础配置； 2.WiFi信息及连接。
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。
音频设置	音频参数的获取和设置。
截图	1.主码流实时截图； 2.截图记录查询。
录像	1.主码流实时录像开始/结束； 2.录像查询； 3.录像计划配置； 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.抓拍记录 3.控制记录

OSD隐私遮盖　　　　　　　　　　　　获取及配置OSD隐私遮盖参数。

3. system

3.1 login

```
1  # GET /system/login 获取登录用户信息
2  # 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
3  [
4      {
5          "iAuthLevel": 1,
6          "iUserLevel": 0,
7          "id": 0,
8          "sUserName": "admin"
9      }
10 ]
11
12 # PUT/POST /system/login?expire 用户登录，cookie有效期一小时
13 # PUT/POST /system/login?expire=day 用户登录，cookie有效期一天
14 # PUT/POST /system/login?expire=week 用户登录，cookie有效期一周
15 # PUT/POST /system/login?expire=month 用户登录，cookie有效期一个月
16 # request sUserName：用户名，sPassword：密码（base64加密）
17 {
18     "sUserName": "admin",
19     "sPassword": "YWRtaW4="
20 }
21 # 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）
22 # 登录成功后set-cookie中携带验证所需cookie
23 {
24     "auth": 0,
25     "status": 0
26 }
27
28 # PUT/POST /system/login/add 用户密码添加
29 # 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
30 {
31     "sUserName":"admin",
32     "sPassword":"YWRtaW4=",
33     "newUserName":"test",
34     "newPassword":"dGVzdA==",
35     "secondNewPw":"dGVzdA==",
36     "iUserLevel":1
37 }
38 # respons status：注册状态（-2注册成功，>=0用户名重复）
39 {"status":-2}
40
41 # PUT/POST /system/login/modify 用户密码修改
42 # request 同/system/login/add
43 {
44     "sUserName":"admin",
```

```
45        "sPassword":"YWRtaW4=",
46        "newUserName":"test",
47        "newPassword":"dGVzdA==",
48        "secondNewPw":"dGVzdA==",
49        "iUserLevel":1
50    }
51    # respons status: 修改状态（>=0注册成功，-2用户名不存在）
52    {"status":2}
53
54    # PUT/POST /system/login/delete 用户删除（管理员不可删除）
55    # request 管理员用户名，sPassword：管理员密码（base64加密），newUserName：删除用户名
56    {
57        "sUserName":"admin",
58        "sPassword":"YWRudWI=",
59        "newUserName":"test"
60    }
61    # respons status: 修改状态（>0删除成功，-2用户名不存在）
62    {"status":2}
```

3.2 device-info

```
1     # GET /system/device-info 获取设备信息
2     # respons name: 信息名称，value：信息值，ro：只读属性
3     [
4         {
5             "id": 0,
6             "name": "deviceName",
7             "ro": "false",
8             "value": "RK IP Camera"
9         },
10        {
11            "id": 1,
12            "name": "telecontrolID",
13            "ro": "false",
14            "value": "88"
15        },
16        {
17            "id": 2,
18            "name": "model",
19            "ro": "true",
20            "value": "RK-003"
21        },
22        {
23            "id": 3,
24            "name": "serialNumber",
25            "ro": "true",
26            "value": "RK-003-A"
27        },
28        {
29            "id": 4,
30            "name": "firmwareVersion",
31            "ro": "true",
32            "value": "V0.2.6 build 200413"
33        },
```

```json
    {
        "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",
```

```
 92          "value": "c3d9b8674f4b94f6"
 93      }
 94  ]
 95
 96  # PUT/POST /system/device-info 修改设备信息
 97  # requeset 修改的数据单元信息
 98  {
 99      "id":1,
100      "name":"telecontrolID",
101      "value":"88",
102      "ro":"false"
103  }
104  # response 修改后的数据单元信息
105  {
106      "id":1,
107      "name":"telecontrolID",
108      "value":"88",
109      "ro":"false"
110  }
```

3.3 remain-space

```
1  # GET /system/remain-space 获取设备userdata剩余空间
2  # response 剩余空间，单位bytes
3  {
4      "availableDisk": 1026608128
5  }
```

3.4 para

```
1  # GET /system/remain-space/key 获取设备能力集 key为数据库SystemPara中的name
2  # 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

```
1   # GET /system/firmware-upgrade?upload-type=resumable 断点续传id申请
2   # requeset
3   null
4   # response Headers/X-Location中携带申请到的id
5   Headers: X-Location: http://{{IP}}/cgi-bin/entry.cgi/system/firmware-
    upgrade?id=0
6
7   # POST/PUT /system/firmware-upgrade?id=0 升级断点续传，id为文件编号
8   # requeset
9   Headers: Content-Range: bytes 524288-1048575 #文件写入的起始和结束位置
10  Headers: Content-Type: text/plain
11  Body: text/plain 数据，大小小于1M
12  # response 当前文件写入情况
13  {"range":"bytes 0-1572863"}
```

```
14
15   # 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
16   # requeset
17   null
18   # response 将无响应，超时后开始等待升级完成
19
20   # DELETE /system/firmware-upgrade?id=0 删除升级文件
```

3.6 reboot

```
1   # POST/PUT /system/reboot 重启
2   # requeset
3   null
```

3.7 factory-reset

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

3.8 export-log

```
1   # POST/PUT /system/export-log 导出log
2   # requeset
3   null
4   # response log地址
5   {"location":"http://172.16.21.106/userdata/export.log"}
```

3.9 import-db

```
1    # POST/PUT /system/import-db 上传数据库
2    # requeset 数据类型为multipart/form-data
3    Header:content-Type: multipart/form-data
4    Form Data：文件数据
5    # response
6    {}
7
8    # POST/PUT /system/import-db?start=1 开始导入数据库，并重启
9    # requeset
10   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,
```

```
54          "id": 2,
55          "sFrameRate": "25",
56          "sFrameRateIn": "25",
57          "sH264Profile": "high",
58          "sOutputDataType": "H.265",
59          "sRCMode": "CBR",
60          "sRCQuality": "high",
61          "sResolution": "1920*1080",
62          "sSVC": "close",
63          "sSmart": "close",
64          "sStreamType": "thirdStream",
65          "sVideoEncoderConfigurationName": "VideoEncoder_2",
66          "sVideoEncoderConfigurationToken": "VideoEncoderToken_2",
67          "sVideoSourceToken": "VideoSource_0",
68          "sVideoType": "compositeStream"
69      }
70  ]
71
72  # GET /video/id 获取对应id视频编码配置，id需为0-2数字
73  #response 返回GET /video中单个id数据
74
75  # POST/PUT /video/id 配置对应id视频编码参数，id需为0-2数字
76  # requset 传入上述数据单元json
77  # response 得到设置完后数据单元json
```

4.1 region-clip

```
1   # GET /video/2/region-clip 获取区域裁剪配置
2   # response normalizedScreenSize: 归一化尺寸，regionClip: 区域裁剪参数
3   {
4       "normalizedScreenSize": {
5           "iNormalizedScreenHeight": 480,
6           "iNormalizedScreenWidth": 704
7       },
8       "regionClip": {
9           "iHeight": 480,
10          "iPositionX": 0,
11          "iPositionY": 0,
12          "iRegionClipEnabled": 0,
13          "iWidth": 640
14      }
15  }
```

4.2 advanced-enc

```
1   # GET /video/0/advanced-enc 获取高级编码参数默认值
2   # response
3   [
4       {
5           "id": 0,
6           "sFunction": "qp",
```

```
 7          "sParameters": "
{\"qp_init\":24,\"qp_step\":4,\"qp_min\":12,\"qp_max\":48,\"min_i_qp\":10,\"
max_i_qp\":20}",
 8          "sStreamType": "mainStream"
 9      },
10      {
11          "id": 1,
12          "sFunction": "split",
13          "sParameters": "{\"mode\":0,\"size\":1024}",
14          "sStreamType": "mainStream"
15      }
16  ]
```

5. stream-url

```
 1  # GET /video/stream-url 获取RTSP/RTMP视频流地址
 2  # response
 3  [
 4      {
 5          "id":0,
 6          "sStreamProtocol":"RTSP",
 7          "sURL":"rtsp://172.16.21.106:554/mainstream"
 8      },
 9      {
10          "id":1,
11          "sStreamProtocol":"RTMP",
12          "sURL":"rtmp://172.16.21.106:1935/live/substream"
13      },
14      {
15          "id":2,
16          "sStreamProtocol":"RTMP",
17          "sURL":"rtmp://172.16.21.106:1935/live/thirdstream"
18      }
19  ]
20
21  # POST/PUT /video/stream-url/id 设置视频流协议
22  # request
23  {
24      "sStreamProtocol":"RTSP",
25  }
26  # response
27  {
28      "id":0,
29      "sStreamProtocol":"RTSP",
30      "sURL":"rtsp://172.16.21.106:554/mainstream"
31  }
```

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,
```

```
55      "iMediaSize":0,
56      "iTotalSize":0,
57      "id":2,
58      "sDev":"",
59      "sFormatErr":"",
60      "sMountPath":"/media/usb0",
61      "sName":"U Disk",
62      "sStatus":"unmounted",
63      "sType":""
64  }
```

6.2 quota

```
1   # GET /storage/quota 获取磁盘配额信息
2   # response
3   [
4       {
5           "iFreePictureQuota": 0.0,
6           "iFreeVideoQuota": 0.0,
7           "iPictureQuotaRatio": 5,
8           "iTotalPictureVolume": 0.0,
9           "iTotalVideoVolume": 0.0,
10          "iVideoQuotaRatio": 45,
11          "id": 1
12      },
13      {
14          "iFreePictureQuota": 0.595100224018097,
15          "iFreeVideoQuota": 5.42329835891724,
16          "iPictureQuotaRatio": 5,
17          "iTotalPictureVolume": 0.606635868549347,
18          "iTotalVideoVolume": 5.45972299575806,
19          "iVideoQuotaRatio": 45,
20          "id": 2
21      },
22      {
23          "iFreePictureQuota": 0.0,
24          "iFreeVideoQuota": 0.0,
25          "iPictureQuotaRatio": 5,
26          "iTotalPictureVolume": 0.0,
27          "iTotalVideoVolume": 0.0,
28          "iVideoQuotaRatio": 45,
29          "id": 3
30      }
31  ]
32
33  # GET /storage/quota/id id为数字，获取对应id磁盘配额信息
34  # response
35  {
36      "iFreePictureQuota": 0.595100224018097,
37      "iFreeVideoQuota": 5.42329835891724,
38      "iPictureQuotaRatio": 5,
39      "iTotalPictureVolume": 0.606635868549347,
40      "iTotalVideoVolume": 5.45972299575806,
41      "iVideoQuotaRatio": 45,
42      "id": 2
```

```
43     }
44
45     # 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
46     # request
47     {
48         "id":3,
49         "iPictureQuotaRatio":5,
50         "iVideoQuotaRatio":45
51     }
52     # response
53     {
54         "iFreePictureQuota":0,
55         "iFreeVideoQuota":0,
56         "iPictureQuotaRatio":5,
57         "iTotalPictureVolume":0,
58         "iTotalVideoVolume":0,
59         "iVideoQuotaRatio":45,
60         "id":3
61     }
```

6.3 snap-plan

```
1     # GET /storage/snap-plan/id id为数字，获取对应id的计划抓图参数
2     # response
3     {
4         "iEnabled": 0,
5         "iImageQuality": 10,
6         "iShotInterval": 1000,
7         "iShotNumber": 4,
8         "sImageType": "JPEG",
9         "sResolution": "2688*1520"
10    }
11
12    # POST/PUT /storage/snap-plan/id id为数字，配置对应id的计划抓图参数
13    # request
14    {
15        "iEnabled":0,
16        "sImageType":"JPEG",
17        "sResolution":"2688*1520",
18        "iImageQuality":10,
19        "iShotInterval":10000
20    }
21    # response
22    {
23        "iEnabled":0,
24        "iImageQuality":10,
25        "iShotInterval":10000,
26        "sImageType":"JPEG",
27        "sResolution":"2688*1520"
28    }
```

6.4 current-path

```
1  # GET /storage/current-path 获取当前存储路径
2  # response
3  {
4      "sMountPath": "/userdata/media"
5  }
```

6.5 format

```
1  # POST/PUT /storage/format/id id为数字，格式化该id对应的磁盘
2  # requset
3  null
4  # response
5  {}
```

6.6 search

```
1  # POST/PUT /storage/search 查询录像/抓图存储记录
2  # 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
3  {
4      "searchType":"video0",
5      "startTime":"1970-01-01T00:00:00",
6      "endTime":"2020-08-29T23:59:59",
7      "maxResults":20,
8      "searchResultPosition: 返回查询结果的开始位置，":0,
9      "order":0
10 }
11 # response
12 {
13     "matchList":[
14         {
15             "fileAddress":"http://172.16.21.106//main_20200715200714_1.mp4",
16             "fileId":0,
17             "fileName":"main_20200715200714_1.mp4",
18             "fileSize":0.82734203338623,
19             "fileTime":"2020-07-15T20:07:16"
20         },
21         {
22             "fileAddress":"http://172.16.21.106/main_20200715200335_6.mp4",
23             "fileId":1,
24             "fileName":"main_20200715200335_6.mp4",
25             "fileSize":0.00182342529296875,
26             "fileTime":"2020-07-15T20:03:35"
27         }
28     ],
29     "numOfMatches":2
30 }
```

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
# requset
{
    "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,
```

```json
            "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,
```

```
72                "iStreamEnabled": 0,
73                "iWidth": 0,
74                "sName": "test",
75                "sStreamType": "thirdStream"
76            }
77        ],
78        "normalizedScreenSize": {
79            "iNormalizedScreenHeight": 480,
80            "iNormalizedScreenWidth": 704
81        }
82    }
83
84    # GET /roi/main-stream  获取主码流的roi信息
85    # GET /roi/subStream  获取子码流的roi信息
86    # GET /roi/thirdStream  获取第三码流的roi信息
87    # response
88    [
89        {
90            "iHeight": 0,
91            "iPositionX": 0,
92            "iPositionY": 0,
93            "iQualityLevelOfROI": 3,
94            "iROIEnabled": 0,
95            "iROIId": 1,
96            "iStreamEnabled": 0,
97            "iWidth": 0,
98            "sName": "test",
99            "sStreamType": "mainStream"
100       },
101       {
102            "iHeight": 0,
103            "iPositionX": 0,
104            "iPositionY": 0,
105            "iQualityLevelOfROI": 3,
106            "iROIEnabled": 0,
107            "iROIId": 2,
108            "iStreamEnabled": 0,
109            "iWidth": 0,
110            "sName": "test",
111            "sStreamType": "mainStream"
112       }
113   ]
114
115   # 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
116   # response
117   {
118       "iHeight": 0,
119       "iPositionX": 0,
120       "iPositionY": 0,
121       "iQualityLevelOfROI": 3,
122       "iROIEnabled": 0,
123       "iROIId": 1,
124       "iStreamEnabled": 0,
125       "iWidth": 0,
126       "sName": "test",
127       "sStreamType": "mainStream"
128   }
129
```

```
130   # 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
131   # request
132   {
133       "iHeight": 0,
134       "iPositionX": 0,
135       "iPositionY": 0,
136       "iQualityLevelOfROI": 3,
137       "iROIEnabled": 1,
138       "iROIId": 1,
139       "iStreamEnabled": 0,
140       "iWidth": 0,
141       "sName": "test",
142       "sStreamType": "mainStream"
143   }
144   # response
145   {
146       "iHeight": 0,
147       "iPositionX": 0,
148       "iPositionY": 0,
149       "iQualityLevelOfROI": 3,
150       "iROIEnabled": 1,
151       "iROIId": 1,
152       "iStreamEnabled": 0,
153       "iWidth": 0,
154       "sName": "test",
155       "sStreamType": "mainStream"
156   }
```

8. peripherals

8.1 gate

```
1    # GET /peripherals/gate 获取闸机外设配置
2    # response
3    {
4        "relay": {
5            "iDuration": 500,
6            "iEnable": 0,
7            "iIOIndex": 0,
8            "iValidLevel": 1,
9            "id": 0
10       },
11       "weigen": {
12           "iDuration": 0,
13           "iEnable": 0,
14           "iWiegandBit": 26,
15           "id": 0
16       }
17   }
18
19   # POST/PUT /peripherals/gate 配置闸机参数
20   # request
```

```
21  {
22      "relay": {
23          "iDuration": 500,
24          "iEnable": 0,
25          "iIOIndex": 0,
26          "iValidLevel": 1,
27          "id": 0
28      },
29      "weigen": {
30          "iDuration": 0,
31          "iEnable": 0,
32          "iWiegandBit": 26,
33          "id": 0
34      }
35  }
36  # response
37  {
38      "relay": {
39          "iDuration": 500,
40          "iEnable": 0,
41          "iIOIndex": 0,
42          "iValidLevel": 1,
43          "id": 0
44      },
45      "weigen": {
46          "iDuration": 0,
47          "iEnable": 0,
48          "iWiegandBit": 26,
49          "id": 0
50      }
51  }
```

8.2 fill-light

```
1   # GET /peripherals/fill-light 获取补光灯外设配置
2   # response
3   {
4       "iNormalBrightness": 50,
5       "iSaveEnergyBrightness": 50,
6       "iSaveEnergyEnable": 0,
7       "id": 0
8   }
9
10  # POST/PUT /peripherals/fill-light 配置补光灯参数
11  # request
12  {
13      "iNormalBrightness": 50,
14      "iSaveEnergyBrightness": 50,
15      "iSaveEnergyEnable": 0,
16      "id": 0
17  }
18  # response
19  {
20      "iNormalBrightness": 50,
21      "iSaveEnergyBrightness": 50,
```

```
22        "iSaveEnergyEnable": 0,
23        "id": 0
24  }
```

9. osd

9.1 overlays

```
1   # GET /osd/overlays 获取OSD叠加配置
2   # response
3   {
4       "attribute": {
5           "iBoundary": 0,
6           "sAlignment": "customize",
7           "sOSDAttribute": "transparent/not-flashing",
8           "sOSDFontSize": "32*32",
9           "sOSDFrontColor": "fff799",
10          "sOSDFrontColorMode": "customize"
11      },
12      "channelNameOverlay": {
13          "iChannelNameOverlayEnabled": 1,
14          "iPositionX": 560,
15          "iPositionY": 432,
16          "sChannelName": "Camera 01"
17      },
18      "characterOverlay": [
19          {
20              "iPositionX": 0,
21              "iPositionY": 0,
22              "iTextOverlayEnabled": 0,
23              "id": 0,
24              "sDisplayText": "",
25              "sIsPersistentText": "true"
26          },
27          {
28              "iPositionX": 0,
29              "iPositionY": 0,
30              "iTextOverlayEnabled": 0,
31              "id": 1,
32              "sDisplayText": "",
33              "sIsPersistentText": "true"
34          },
35          {
36              "iPositionX": 0,
37              "iPositionY": 0,
38              "iTextOverlayEnabled": 0,
39              "id": 2,
40              "sDisplayText": "",
41              "sIsPersistentText": "true"
42          },
43          {
44              "iPositionX": 0,
```

```
45              "iPositionY": 0,
46              "iTextOverlayEnabled": 0,
47              "id": 3,
48              "sDisplayText": "",
49              "sIsPersistentText": "true"
50          },
51          {
52              "iPositionX": 0,
53              "iPositionY": 0,
54              "iTextOverlayEnabled": 0,
55              "id": 4,
56              "sDisplayText": "",
57              "sIsPersistentText": "true"
58          },
59          {
60              "iPositionX": 0,
61              "iPositionY": 0,
62              "iTextOverlayEnabled": 0,
63              "id": 5,
64              "sDisplayText": "",
65              "sIsPersistentText": "true"
66          },
67          {
68              "iPositionX": 0,
69              "iPositionY": 0,
70              "iTextOverlayEnabled": 0,
71              "id": 6,
72              "sDisplayText": "",
73              "sIsPersistentText": "true"
74          },
75          {
76              "iPositionX": 0,
77              "iPositionY": 0,
78              "iTextOverlayEnabled": 0,
79              "id": 7,
80              "sDisplayText": "",
81              "sIsPersistentText": "true"
82          }
83      ],
84      "dateTimeOverlay": {
85          "iDateTimeOverlayEnabled": 1,
86          "iDisplayWeekEnabled": 1,
87          "iPositionX": 16,
88          "iPositionY": 16,
89          "sDateStyle": "CHR-YYYY-MM-DD",
90          "sTimeStyle": "24hour"
91      },
92      "normalizedScreenSize": {
93          "iNormalizedScreenHeight": 480,
94          "iNormalizedScreenWidth": 704
95      }
96 }
97
98 # POST/PUT /osd/overlays 配置OSD叠加
99 # request
100 {
101     "attribute": {
102         "iBoundary": 0,
```

```json
103          "sAlignment": "customize",
104          "sOSDAttribute": "transparent/not-flashing",
105          "sOSDFontSize": "32*32",
106          "sOSDFrontColor": "fff799",
107          "sOSDFrontColorMode": "customize"
108      },
109      "channelNameOverlay": {
110          "iChannelNameOverlayEnabled": 1,
111          "iPositionX": 560,
112          "iPositionY": 432,
113          "sChannelName": "Camera 01"
114      },
115      "characterOverlay": [
116          {
117              "iPositionX": 0,
118              "iPositionY": 0,
119              "iTextOverlayEnabled": 0,
120              "id": 0,
121              "sDisplayText": "",
122              "sIsPersistentText": "true"
123          },
124          {
125              "iPositionX": 0,
126              "iPositionY": 0,
127              "iTextOverlayEnabled": 0,
128              "id": 1,
129              "sDisplayText": "",
130              "sIsPersistentText": "true"
131          },
132          {
133              "iPositionX": 0,
134              "iPositionY": 0,
135              "iTextOverlayEnabled": 0,
136              "id": 2,
137              "sDisplayText": "",
138              "sIsPersistentText": "true"
139          },
140          {
141              "iPositionX": 0,
142              "iPositionY": 0,
143              "iTextOverlayEnabled": 0,
144              "id": 3,
145              "sDisplayText": "",
146              "sIsPersistentText": "true"
147          },
148          {
149              "iPositionX": 0,
150              "iPositionY": 0,
151              "iTextOverlayEnabled": 0,
152              "id": 4,
153              "sDisplayText": "",
154              "sIsPersistentText": "true"
155          },
156          {
157              "iPositionX": 0,
158              "iPositionY": 0,
159              "iTextOverlayEnabled": 0,
160              "id": 5,
```

```json
            "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
```json
{
    "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"
        },
```

```json
        {
            "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": {
```

```
277            "iDateTimeOverlayEnabled": 1,
278            "iDisplayWeekEnabled": 1,
279            "iPositionX": 16,
280            "iPositionY": 16,
281            "sDateStyle": "CHR-YYYY-MM-DD",
282            "sTimeStyle": "24hour"
283        },
284        "normalizedScreenSize": {
285            "iNormalizedScreenHeight": 480,
286            "iNormalizedScreenWidth": 704
287        }
288    }
```

9.2 image

```
1   # GET /osd/image 获取图像遮盖配置
2   # response
3   {
4       "imageOverlay": {
5           "iImageHeight": 80,
6           "iImageOverlayEnabled": 1,
7           "iImageWidth": 160,
8           "iPositionX": 16,
9           "iPositionY": 388,
10          "iTransparentColorEnabled": 0
11      },
12      "normalizedScreenSize": {
13          "iNormalizedScreenHeight": 480,
14          "iNormalizedScreenWidth": 704
15      }
16  }
17
18  # POST/PUT /osd/image 配置图像遮盖
19  # request
20  {
21      "imageOverlay": {
22          "iImageHeight": 80,
23          "iImageOverlayEnabled": 1,
24          "iImageWidth": 160,
25          "iPositionX": 16,
26          "iPositionY": 388,
27          "iTransparentColorEnabled": 0
28      },
29      "normalizedScreenSize": {
30          "iNormalizedScreenHeight": 480,
31          "iNormalizedScreenWidth": 704
32      }
33  }
34  # response
35  {
36      "imageOverlay": {
37          "iImageHeight": 80,
38          "iImageOverlayEnabled": 1,
39          "iImageWidth": 160,
40          "iPositionX": 16,
```

```
41        "iPositionY": 388,
42        "iTransparentColorEnabled": 0
43    },
44    "normalizedScreenSize": {
45        "iNormalizedScreenHeight": 480,
46        "iNormalizedScreenWidth": 704
47    }
48 }
49
50 # POST/PUT image/picture 设置遮盖图像
51 # 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
52 Content-Type: multipart/form-data
53 # response
54 {}
```

9.3 privacy-mask

```
 1 # GET /osd/privacy-mask 获取隐私遮盖配置
 2 # response
 3 {
 4    "normalizedScreenSize": {
 5        "iNormalizedScreenHeight": 480,
 6        "iNormalizedScreenWidth": 704
 7    },
 8    "privacyMask": [
 9        {
10            "iMaskHeight": 0,
11            "iMaskWidth": 0,
12            "iPositionX": 0,
13            "iPositionY": 0,
14            "iPrivacyMaskEnabled": 0,
15            "id": 0
16        },
17        {
18            "iMaskHeight": 0,
19            "iMaskWidth": 0,
20            "iPositionX": 0,
21            "iPositionY": 0,
22            "iPrivacyMaskEnabled": 0,
23            "id": 1
24        },
25        {
26            "iMaskHeight": 0,
27            "iMaskWidth": 0,
28            "iPositionX": 0,
29            "iPositionY": 0,
30            "iPrivacyMaskEnabled": 0,
31            "id": 2
32        },
33        {
34            "iMaskHeight": 0,
35            "iMaskWidth": 0,
36            "iPositionX": 0,
37            "iPositionY": 0,
38            "iPrivacyMaskEnabled": 0,
```

```
39              "id": 3
40          }
41      ]
42  }

43
44  # POST/PUT /osd/privacy-mask 配置隐私遮盖
45  # request
46  {
47      "normalizedScreenSize": {
48          "iNormalizedScreenHeight": 480,
49          "iNormalizedScreenWidth": 704
50      },
51      "privacyMask": [
52          {
53              "iMaskHeight": 0,
54              "iMaskWidth": 0,
55              "iPositionX": 0,
56              "iPositionY": 0,
57              "iPrivacyMaskEnabled": 0,
58              "id": 0
59          },
60          {
61              "iMaskHeight": 0,
62              "iMaskWidth": 0,
63              "iPositionX": 0,
64              "iPositionY": 0,
65              "iPrivacyMaskEnabled": 0,
66              "id": 1
67          },
68          {
69              "iMaskHeight": 0,
70              "iMaskWidth": 0,
71              "iPositionX": 0,
72              "iPositionY": 0,
73              "iPrivacyMaskEnabled": 0,
74              "id": 2
75          },
76          {
77              "iMaskHeight": 0,
78              "iMaskWidth": 0,
79              "iPositionX": 0,
80              "iPositionY": 0,
81              "iPrivacyMaskEnabled": 0,
82              "id": 3
83          }
84      ]
85  }
86  # response
87  {
88      "normalizedScreenSize": {
89          "iNormalizedScreenHeight": 480,
90          "iNormalizedScreenWidth": 704
91      },
92      "privacyMask": [
93          {
94              "iMaskHeight": 0,
95              "iMaskWidth": 0,
96              "iPositionX": 0,
```

```
 97              "iPositionY": 0,
 98              "iPrivacyMaskEnabled": 0,
 99              "id": 0
100          },
101          {
102              "iMaskHeight": 0,
103              "iMaskWidth": 0,
104              "iPositionX": 0,
105              "iPositionY": 0,
106              "iPrivacyMaskEnabled": 0,
107              "id": 1
108          },
109          {
110              "iMaskHeight": 0,
111              "iMaskWidth": 0,
112              "iPositionX": 0,
113              "iPositionY": 0,
114              "iPrivacyMaskEnabled": 0,
115              "id": 2
116          },
117          {
118              "iMaskHeight": 0,
119              "iMaskWidth": 0,
120              "iPositionX": 0,
121              "iPositionY": 0,
122              "iPrivacyMaskEnabled": 0,
123              "id": 3
124          }
125      ]
126  }
```

10. network

10.1 lan

```
 1  # GET /network/lan 获取局域网配置
 2  # response
 3  {
 4      "ipv4":{
 5          "sV4Address":"172.16.21.106",
 6          "sV4Gateway":"172.16.21.1",
 7          "sV4Method":"dhcp",
 8          "sV4Netmask":"255.255.255.0"
 9      },
10      "link":{
11          "iDuplex":1,
12          "iNicSpeed":1000,
13          "iPower":1,
14          "sAddress":"fa:40:a4:8b:ad:57",
15          "sDNS1":"10.10.10.188",
16          "sDNS2":"58.22.96.66",
17          "sInterface":"eth0",
```

```
18          "sNicSpeed":"Auto",
19          "sNicSpeedSupport":"Auto 10baseT/Half 10baseT/Full 100baseT/Half
   100baseT/Full 1000baseT/Full "
20      }
21  }
22
23  # POST/PUT /network/lan 配置局域网，自动获取IP
24  # request
25  {
26      "ipv4":{
27          "sV4Method":"dhcp"
28      },
29      "link":{
30          "sNicSpeed":"Auto",
31          "sDNS1":"10.10.10.188",
32          "sDNS2":"58.22.96.66",
33      }
34  }
35  # response
36  {
37      "ipv4":{
38          "sV4Address":"172.16.21.106",
39          "sV4Gateway":"172.16.21.1",
40          "sV4Method":"dhcp",
41          "sV4Netmask":"255.255.255.0"
42      },
43      "link":{
44          "iDuplex":1,
45          "iNicSpeed":1000,
46          "iPower":1,
47          "sAddress":"fa:40:a4:8b:ad:57",
48          "sDNS1":"10.10.10.188",
49          "sDNS2":"58.22.96.66",
50          "sInterface":"eth0",
51          "sNicSpeed":"Auto",
52          "sNicSpeedSupport":"Auto 10baseT/Half 10baseT/Full 100baseT/Half
   100baseT/Full 1000baseT/Full "
53      }
54  }
55
56  # POST/PUT /network/lan 配置局域网，手动设置IP
57  # request
58  {
59      "ipv4":{
60          "sV4Address":"172.16.21.106",
61          "sV4Gateway":"172.16.21.1",
62          "sV4Method":"manaual",
63          "sV4Netmask":"255.255.255.0"
64      },
65      "link":{
66          "sNicSpeed":"Auto",
67          "sDNS1":"10.10.10.188",
68          "sDNS2":"58.22.96.66",
69      }
70  }
71  # response
72  {
73      "ipv4":{
```

```
74          "sV4Address":"172.16.21.106",
75          "sV4Gateway":"172.16.21.1",
76          "sV4Method":"manaual",
77          "sV4Netmask":"255.255.255.0"
78      },
79      "link":{
80          "iDuplex":1,
81          "iNicSpeed":1000,
82          "iPower":1,
83          "sAddress":"fa:40:a4:8b:ad:57",
84          "sDNS1":"10.10.10.188",
85          "sDNS2":"58.22.96.66",
86          "sInterface":"eth0",
87          "sNicSpeed":"Auto",
88          "sNicSpeedSupport":"Auto 10baseT/Half 10baseT/Full 100baseT/Half
   100baseT/Full 1000baseT/Full "
89      }
90  }
```

10.2 wlan

```
1  # 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
2  # response
3  {
4      "ipv4":{
5          "sV4Address":"",
6          "sV4Gateway":"",
7          "sV4Method":"dhcp",
8          "sV4Netmask":""
9      },
10     "link":{
11         "iDuplex":-1,
12         "iNicSpeed":-1,
13         "iPower":0,
14         "sAddress":"c0:84:7d:e1:ce:00",
15         "sDNS1":"",
16         "sDNS2":"",
17         "sInterface":"wlan0",
18         "sNicSpeed":""
19     }
20 }
21
22 # POST/PUT /network/wlan 配置局域网，自动获取IP
23 # request
24 {
25     "ipv4":{
26         "sV4Method":"dhcp"
27     },
28     "link":{
29         "sDNS1":"",
30         "sDNS2":"",
31     }
32 }
33 # response 为未连接Wi-Fi时的配置
34 {
```

```
35        "ipv4":{
36            "sV4Address":"",
37            "sV4Gateway":"",
38            "sV4Method":"dhcp",
39            "sV4Netmask":""
40        },
41        "link":{
42            "iDuplex":-1,
43            "iNicSpeed":-1,
44            "iPower":0,
45            "sAddress":"c0:84:7d:e1:ce:00",
46            "sDNS1":"",
47            "sDNS2":"",
48            "sInterface":"wlan0",
49            "sNicSpeed":""
50        }
51  }
52
53  # POST/PUT /network/wlan 配置局域网，手动设置IP
54  # request
55  {
56        "ipv4":{
57            "sV4Address":"172.16.21.106",
58            "sV4Gateway":"172.16.21.1",
59            "sV4Method":"manaual",
60            "sV4Netmask":"255.255.255.0"
61        },
62        "link":{
63            "sDNS1":"10.10.10.188",
64            "sDNS2":"58.22.96.66",
65        }
66  }
67  # response 为未连接Wi-Fi时的配置
68  {
69        "ipv4":{
70            "sV4Address":"172.16.21.106",
71            "sV4Gateway":"172.16.21.1",
72            "sV4Method":"manaual",
73            "sV4Netmask":"255.255.255.0"
74        },
75        "link":{
76            "iDuplex":-1,
77            "iNicSpeed":-1,
78            "iPower":0,
79            "sAddress":"c0:84:7d:e1:ce:00",
80            "sDNS1":"10.10.10.188",
81            "sDNS2":"58.22.96.66",
82            "sInterface":"wlan0",
83            "sNicSpeed":""
84        }
85  }
```

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

```
1   # GET /network/wifi-list 获取扫描到的Wi-Fi列表
2   # response
3   [
4       {
5           "Favorite": 1,
6           "Strength": 90,
7           "sName": "test"
8           "sSecurity": "psk";
9           "sService": "sadgwegwe_sdgas";
10          "sState": "ready";
11          "sType": "wifi";
12      }
13  ]
```

11. network-ntp

```
1   # GET /network-ntp 获取时间设置
2   # response
3   {
4       "iAutoDst":0,
5       "iAutoMode":1,
6       "iRefreshTime":60,
7       "id":0,
8       "sNtpServers":"122.224.9.29 94.130.49.186",
9       "sTimeZone":"ChinaStandardTime-8",
10      "sTimeZoneFile":"posix/Etc/GMT-8",
11      "sTimeZoneFileDst":"posix/Asia/Shanghai"
12  }
13
14  # PUT/POST /network-ntp 配置时间参数
15  # request
16  {
17      "iAutoDst":0,
18      "iAutoMode":1,
19      "iRefreshTime":60,
20      "id":0,
21      "sNtpServers":"122.224.9.29 94.130.49.186",
22      "sTimeZone":"ChinaStandardTime-8",
23      "sTimeZoneFile":"posix/Etc/GMT-8",
24      "sTimeZoneFileDst":"posix/Asia/Shanghai"
25  }
26  # response
27  {
28      "iAutoDst":0,
29      "iAutoMode":1,
30      "iRefreshTime":60,
31      "id":0,
32      "sNtpServers":"122.224.9.29 94.130.49.186",
33      "sTimeZone":"ChinaStandardTime-8",
34      "sTimeZoneFile":"posix/Etc/GMT-8",
35      "sTimeZoneFileDst":"posix/Asia/Shanghai"
36  }
```

11.1 time

```
1   # GET /network-ntp/time 获取设备时间
2   # response
3   {
4       "time":"2020-09-01T08:38:08"
5   }
6
7   # PUT/POST /network-ntp/time 设置设备时间，自动模式下无需设置
8   # request
9   {
10      "time":"2020-09-01T08:38:08"
11  }
12  # response
13  {
14      "time":"2020-09-01T08:38:08"
15  }
```

12. network-port

```
1   # GET /network-port 获取设备端口
2   # response
3   [
4       {
5           "iPortNo":80,
6           "id":0,
7           "sProtocol":"HTTP"
8       },
9       {
10          "iPortNo":443,
11          "id":1,
12          "sProtocol":"HTTPS"
13      },
14      {
15          "iPortNo":8080,
16          "id":2,
17          "sProtocol":"DEV_MANAGE"
18      },
19      {
20          "iPortNo":554,
21          "id":3,
22          "sProtocol":"RTSP"
23      },
24      {
25          "iPortNo":1935,
26          "id":4,
27          "sProtocol":"RTMP"
28      }
29  ]
30
31  # PUT/POST /network-port/id id为数字，对应获取到的端口id，设置端口
32  # request
```

```
33  {
34      "iPortNo":80,
35      "id":0,
36      "sProtocol":"HTTP"
37  }
38  # response
39  {
40      "iPortNo":80,
41      "id":0,
42      "sProtocol":"HTTP"
43  }
```

13. image

```
1   # GET /image 获取ISP配置全部信息
2   # response
3   [
4       {
5           "BLC": {
6               "iBLCRegionHeight": 92,
7               "iBLCRegionWidth": 120,
8               "iHDRLevel": 50,
9               "iHLCLevel": 0,
10              "iPositionX": 0,
11              "iPositionY": 0,
12              "iWDRLevel": 0,
13              "sBLCRegion": "close",
14              "sHDR": "open",
15              "sHLC": "close",
16              "sWDR": "close"
17          },
18          "exposure": {
19              "iAutoIrisLevel": 5,
20              "iExposureGain": 1,
21              "sExposureTime": "1/6",
22              "sIrisType": "auto"
23          },
24          "id": 0,
25          "imageAdjustment": {
26              "iBrightness": 50,
27              "iContrast": 50,
28              "iSaturation": 50,
29              "iSharpness": 50
30          },
31          "imageEnhancement": {
32              "iDehazeLevel": 0,
33              "iDenoiseLevel": 0,
34              "iImageRotation": 0,
35              "iSpatialDenoiseLevel": 0,
36              "iTemporalDenoiseLevel": 0,
37              "sDIS": "close",
38              "sDehaze": "close",
39              "sFEC": "close",
```

```
40              "sGrayScaleMode": "[0-255]",
41              "sNoiseReduceMode": "general"
42          },
43          "nightToDay": {
44              "iDistanceLevel": 1,
45              "iLightBrightness": 1,
46              "iNightToDayFilterLevel": 5,
47              "iNightToDayFilterTime": 5,
48              "sBeginTime": "07:00:00",
49              "sBrightnessAdjustmentMode": "auto",
50              "sEndTime": "18:00:00",
51              "sFillLightMode": "IR",
52              "sIrcutFilterAction": "day",
53              "sNightToDay": "auto",
54              "sOverexposeSuppress": "open",
55              "sOverexposeSuppressType": "auto"
56          },
57          "videoAdjustment": {
58              "sImageFlip": "close",
59              "sPowerLineFrequencyMode": "PAL(50HZ)",
60              "sSceneMode": "indoor"
61          },
62          "whiteBlance": {
63              "iWhiteBalanceBlue": 50,
64              "iWhiteBalanceRed": 50,
65              "sWhiteBlanceStyle": "autoWhiteBalance"
66          }
67      }
68 ]
```

13.1 id

```
1  # GET /image/id id为数字，获取对应通道的ISP配置信息
2  # response
3  {
4      "BLC": {
5          "iBLCRegionHeight": 92,
6          "iBLCRegionWidth": 120,
7          "iHDRLevel": 50,
8          "iHLCLevel": 0,
9          "iPositionX": 0,
10         "iPositionY": 0,
11         "iWDRLevel": 0,
12         "sBLCRegion": "close",
13         "sHDR": "open",
14         "sHLC": "close",
15         "sWDR": "close"
16     },
17     "exposure": {
18         "iAutoIrisLevel": 5,
19         "iExposureGain": 1,
20         "sExposureTime": "1/6",
21         "sIrisType": "auto"
22     },
23     "id": 0,
```

```
24        "imageAdjustment": {
25            "iBrightness": 50,
26            "iContrast": 50,
27            "iSaturation": 50,
28            "iSharpness": 50
29        },
30        "imageEnhancement": {
31            "iDehazeLevel": 0,
32            "iDenoiseLevel": 0,
33            "iImageRotation": 0,
34            "iSpatialDenoiseLevel": 0,
35            "iTemporalDenoiseLevel": 0,
36            "sDIS": "close",
37            "sDehaze": "close",
38            "sFEC": "close",
39            "sGrayScaleMode": "[0-255]",
40            "sNoiseReduceMode": "general"
41        },
42        "nightToDay": {
43            "iDistanceLevel": 1,
44            "iLightBrightness": 1,
45            "iNightToDayFilterLevel": 5,
46            "iNightToDayFilterTime": 5,
47            "sBeginTime": "07:00:00",
48            "sBrightnessAdjustmentMode": "auto",
49            "sEndTime": "18:00:00",
50            "sFillLightMode": "IR",
51            "sIrcutFilterAction": "day",
52            "sNightToDay": "auto",
53            "sOverexposeSuppress": "open",
54            "sOverexposeSuppressType": "auto"
55        },
56        "videoAdjustment": {
57            "sImageFlip": "close",
58            "sPowerLineFrequencyMode": "PAL(50HZ)",
59            "sSceneMode": "indoor"
60        },
61        "whiteBlance": {
62            "iWhiteBalanceBlue": 50,
63            "iWhiteBalanceRed": 50,
64            "sWhiteBlanceStyle": "autoWhiteBalance"
65        }
66 }
67
68 # POST/PUT /image/id id为数字，配置对应通道的ISP信息
69 # request
70 {
71     "BLC": {
72         "iBLCRegionHeight": 92,
73         "iBLCRegionWidth": 120,
74         "iHDRLevel": 50,
75         "iHLCLevel": 0,
76         "iPositionX": 0,
77         "iPositionY": 0,
78         "iWDRLevel": 0,
79         "sBLCRegion": "close",
80         "sHDR": "open",
81         "sHLC": "close",
```

```
 82              "sWDR": "close"
 83          },
 84          "exposure": {
 85              "iAutoIrisLevel": 5,
 86              "iExposureGain": 1,
 87              "sExposureTime": "1/6",
 88              "sIrisType": "auto"
 89          },
 90          "id": 0,
 91          "imageAdjustment": {
 92              "iBrightness": 50,
 93              "iContrast": 50,
 94              "iSaturation": 50,
 95              "iSharpness": 50
 96          },
 97          "imageEnhancement": {
 98              "iDehazeLevel": 0,
 99              "iDenoiseLevel": 0,
100              "iImageRotation": 0,
101              "iSpatialDenoiseLevel": 0,
102              "iTemporalDenoiseLevel": 0,
103              "sDIS": "close",
104              "sDehaze": "close",
105              "sFEC": "close",
106              "sGrayScaleMode": "[0-255]",
107              "sNoiseReduceMode": "general"
108          },
109          "nightToDay": {
110              "iDistanceLevel": 1,
111              "iLightBrightness": 1,
112              "iNightToDayFilterLevel": 5,
113              "iNightToDayFilterTime": 5,
114              "sBeginTime": "07:00:00",
115              "sBrightnessAdjustmentMode": "auto",
116              "sEndTime": "18:00:00",
117              "sFillLightMode": "IR",
118              "sIrcutFilterAction": "day",
119              "sNightToDay": "auto",
120              "sOverexposeSuppress": "open",
121              "sOverexposeSuppressType": "auto"
122          },
123          "videoAdjustment": {
124              "sImageFlip": "close",
125              "sPowerLineFrequencyMode": "PAL(50HZ)",
126              "sSceneMode": "indoor"
127          },
128          "whiteBlance": {
129              "iWhiteBalanceBlue": 50,
130              "iWhiteBalanceRed": 50,
131              "sWhiteBlanceStyle": "autoWhiteBalance"
132          }
133  }
134  # response
135  {
136      "BLC": {
137          "iBLCRegionHeight": 92,
138          "iBLCRegionWidth": 120,
139          "iHDRLevel": 50,
```

```json
            "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"
        }
```

```
198  }
199
200  # 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
201  # response
202  {
203      "iBLCRegionHeight": 92,
204      "iBLCRegionWidth": 120,
205      "iHDRLevel": 50,
206      "iHLCLevel": 0,
207      "iPositionX": 0,
208      "iPositionY": 0,
209      "iWDRLevel": 0,
210      "sBLCRegion": "close",
211      "sHDR": "open",
212      "sHLC": "close",
213      "sWDR": "close"
214  }
215
216  # 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
217  # request
218  {
219      "iBLCRegionHeight": 92,
220      "iBLCRegionWidth": 120,
221      "iHDRLevel": 50,
222      "iHLCLevel": 0,
223      "iPositionX": 0,
224      "iPositionY": 0,
225      "iWDRLevel": 0,
226      "sBLCRegion": "close",
227      "sHDR": "open",
228      "sHLC": "close",
229      "sWDR": "close"
230  }
231  # response
232  {
233      "iBLCRegionHeight": 92,
234      "iBLCRegionWidth": 120,
235      "iHDRLevel": 50,
236      "iHLCLevel": 0,
237      "iPositionX": 0,
238      "iPositionY": 0,
239      "iWDRLevel": 0,
240      "sBLCRegion": "close",
241      "sHDR": "open",
242      "sHLC": "close",
243      "sWDR": "close"
244  }
```

14. event

14.1 triggers

```
1   # GET /event/triggers/vmd_0 获取移动侦测联动方式配置
2   # response
3   {
4       "iNotificationCenterEnabled": 0,
5       "iNotificationEmailEnabled": 0,
6       "iNotificationFTPEnabled": 0,
7       "iNotificationIO1Enabled": 0,
8       "iNotificationRecord1Enabled": 0,
9       "iVideoInputChannelID": 0,
10      "id": 0,
11      "sEventType": "VMD"
12  }
13
14  # POST/PUT /event/triggers/vmd_0 配置移动侦测联动方式
15  # request
16  {
17      "iNotificationCenterEnabled": 0,
18      "iNotificationEmailEnabled": 0,
19      "iNotificationFTPEnabled": 0,
20      "iNotificationIO1Enabled": 0,
21      "iNotificationRecord1Enabled": 0,
22      "iVideoInputChannelID": 0,
23      "id": 0,
24      "sEventType": "VMD"
25  }
26  # response
27  {
28      "iNotificationCenterEnabled": 0,
29      "iNotificationEmailEnabled": 0,
30      "iNotificationFTPEnabled": 0,
31      "iNotificationIO1Enabled": 0,
32      "iNotificationRecord1Enabled": 0,
33      "iVideoInputChannelID": 0,
34      "id": 0,
35      "sEventType": "VMD"
36  }
37
38  # GET /event/triggers/vri_0 获取区域入侵联动方式配置
39  # response
40  {
41      "iNotificationCenterEnabled": 0,
42      "iNotificationEmailEnabled": 0,
43      "iNotificationFTPEnabled": 0,
44      "iNotificationIO1Enabled": 0,
45      "iNotificationRecord1Enabled": 0,
46      "iVideoInputChannelID": 0,
47      "id": 1,
48      "sEventType": "VRI"
49  }
50
51  # POST/PUT /event/triggers/vri_0 配置区域入侵联动方式
52  # request
53  {
54      "iNotificationCenterEnabled": 0,
```

```
55        "iNotificationEmailEnabled": 0,
56        "iNotificationFTPEnabled": 0,
57        "iNotificationIO1Enabled": 0,
58        "iNotificationRecord1Enabled": 0,
59        "iVideoInputChannelID": 0,
60        "id": 0,
61        "sEventType": "VMD"
62    }
63    # response
64    {
65        "iNotificationCenterEnabled": 0,
66        "iNotificationEmailEnabled": 0,
67        "iNotificationFTPEnabled": 0,
68        "iNotificationIO1Enabled": 0,
69        "iNotificationRecord1Enabled": 0,
70        "iVideoInputChannelID": 0,
71        "id": 0,
72        "sEventType": "VMD"
73    }
```

14.2 schedules

```
1    # GET /event/schedules/motion 获取移动侦测布防时间配置
2    # response json字符串
3    {
4        "sSchedulesJson": "[[],[],[],[],[],[],[]]"
5    }
6
7    # POST/PUT /event/schedules/motion 配置移动侦测布防时间
8    # request json字符串
9    {
10       "sSchedulesJson": "[[],[],[],[],[],[],[]]"
11   }
12   # response json字符串
13   {
14       "sSchedulesJson": "[[],[],[],[],[],[],[]]"
15   }
16
17   # GET /event/schedules/intrusion 获取区域入侵布防时间配置
18   # response json字符串
19   {
20       "sSchedulesJson": "[[],[],[],[],[],[],[]]"
21   }
22
23   # POST/PUT /event/schedules/motion 配置区域入侵布防时间
24   # request json字符串
25   {
26       "sSchedulesJson": "[[],[],[],[],[],[],[]]"
27   }
28   # response json字符串
29   {
30       "sSchedulesJson": "[[],[],[],[],[],[],[]]"
31   }
32
33   # GET /event/schedules/video-plan 获取录像计划布防时间配置
```

```
34  # response json字符串
35  {
36      "sSchedulesJson": "[[],[],[],[],[],[],[]]"
37  }
38
39  # POST/PUT /event/schedules/motion 配置录像计划布防时间
40  # request json字符串
41  {
42      "sSchedulesJson": "[[],[],[],[],[],[],[]]"
43  }
44  # response json字符串
45  {
46      "sSchedulesJson": "[[],[],[],[],[],[],[]]"
47  }
48
49  # GET /event/schedules/screenshot 获取抓图计划布防时间配置
50  # response json字符串
51  {
52      "sSchedulesJson": "[[],[],[],[],[],[],[]]"
53  }
54
55  # POST/PUT /event/schedules/motion 配置抓图计划布防时间
56  # request json字符串
57  {
58      "sSchedulesJson": "[[],[],[],[],[],[],[]]"
59  }
60  # response json字符串
61  {
62      "sSchedulesJson": "[[],[],[],[],[],[],[]]"
63  }
```

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(8×60×60)/(24×60×60) = 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

```
1   # GET /event/motion-detection/0 获取移动侦测配置
2   # response
3   {
4       "iColumnGranularity": 22,
5       "iEndTriggerTime": 500,
6       "iHighlightEnabled": 0,
7       "iMotionDetectionEnabled": 0,
8       "iRowGranularity": 18,
9       "iSamplingInterval": 2,
10      "iSensitivityLevel": 1,
11      "iStartTriggerTime": 500,
12      "id": 0,
```

```
13        "sGridMap": "",
14        "sRegionType": "grid"
15   }
16
17   # POST/PUT /event/motion-detection/0 配置移动侦测
18   # 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。
19   {
20        "iColumnGranularity": 22,
21        "iEndTriggerTime": 500,
22        "iHighlightEnabled": 0,
23        "iMotionDetectionEnabled": 0,
24        "iRowGranularity": 18,
25        "iSamplingInterval": 2,
26        "iSensitivityLevel": 1,
27        "iStartTriggerTime": 500,
28        "id": 0,
29        "sGridMap":
     "0000000000000000000000000000000000000007f80007f80007f80007f80007f80007f80007f
     80007f8000000000000000000000000000",
30        "sRegionType": "grid"
31   }
32   # response
33   {
34        "iColumnGranularity": 22,
35        "iEndTriggerTime": 500,
36        "iHighlightEnabled": 0,
37        "iMotionDetectionEnabled": 0,
38        "iRowGranularity": 18,
39        "iSamplingInterval": 2,
40        "iSensitivityLevel": 1,
41        "iStartTriggerTime": 500,
42        "id": 0,
43        "sGridMap": "",
44        "sRegionType": "grid"
45   }
```

14.4 regional-invasion

```
1   # GET /event/regional-invasion/0 获取区域入侵配置
2   # response
3   {
4        "normalizedScreenSize": {
5            "iNormalizedScreenHeight": 480,
6            "iNormalizedScreenWidth": 704
7        },
8        "regionalInvasion": {
9            "iEnabled": 0,
10           "iHeight": 0,
11           "iPositionX": 0,
12           "iPositionY": 0,
13           "iProportion": 0,
14           "iSensitivityLevel": 50,
15           "iTimeThreshold": 0,
```

```
16        "iWidth": 0
17      }
18  }
19
20  # POST/PUT /event/regional-invasion/0 配置区域入侵
21  # request
22  {
23      "normalizedScreenSize": {
24          "iNormalizedScreenHeight": 480,
25          "iNormalizedScreenWidth": 704
26      },
27      "regionalInvasion": {
28          "iEnabled": 0,
29          "iHeight": 0,
30          "iPositionX": 0,
31          "iPositionY": 0,
32          "iProportion": 0,
33          "iSensitivityLevel": 50,
34          "iTimeThreshold": 0,
35          "iWidth": 0
36      }
37  }
38  # response
39  {
40      "normalizedScreenSize": {
41          "iNormalizedScreenHeight": 480,
42          "iNormalizedScreenWidth": 704
43      },
44      "regionalInvasion": {
45          "iEnabled": 0,
46          "iHeight": 0,
47          "iPositionX": 0,
48          "iPositionY": 0,
49          "iProportion": 0,
50          "iSensitivityLevel": 50,
51          "iTimeThreshold": 0,
52          "iWidth": 0
53      }
54  }
```

14.5 face-list

```
1   # GET /event/face-list 获取所有已注册人脸信息
2   # response
3   [
4       {
5           "iAccessCardNumber": 11,
6           "iAge": 50,
7           "iFaceDBId": 1,
8           "iLoadCompleted": 1,
9           "id": 0,
10          "sAddress": "",
11          "sBirthday": "1970-01-01",
12          "sCertificateNumber": "",
13          "sCertificateType": "identityCard",
```

```
14          "sGender": "male",
15          "sHometown": "",
16          "sListType": "permanent",
17          "sName": "test",
18          "sNation": "汉族",
19          "sNote": "",
20          "sPicturePath": "/userdata/media/white_list/test_0.jpg",
21          "sRegistrationTime": "2020-08-27T16:11:06",
22          "sTelephoneNumber": "",
23          "sType": "whiteList"
24      }
25  ]
26
27  # POST/PUT /event/face-config?search=condition 条件查询已注册人脸信息
28  # request
29  {
30      "beginTime":"1970-01-01T00:00:00",
31      "endTime":"2020-08-29T23:59:59",
32      "type":"all",
33      "gender":"all",
34      "minAge":0,
35      "maxAge":100,
36      "accessCardNumber":0,
37      "beginPosition":0,
38      "endPosition":19
39  }
40  # response
41  {
42      "matchList":[
43          {
44              "iAccessCardNumber": 11,
45              "iAge": 50,
46              "iFaceDBId": 1,
47              "iLoadCompleted": 1,
48              "id": 0,
49              "sAddress": "",
50              "sBirthday": "1970-01-01",
51              "sCertificateNumber": "",
52              "sCertificateType": "identityCard",
53              "sGender": "male",
54              "sHometown": "",
55              "sListType": "permanent",
56              "sName": "test",
57              "sNation": "汉族",
58              "sNote": "",
59              "sPicturePath": "/userdata/media/white_list/test_0.jpg",
60              "sRegistrationTime": "2020-08-27T16:11:06",
61              "sTelephoneNumber": "",
62              "sType": "whiteList"
63          }
64      ],
65      "numOfMatches":1
66  }
67
68  # POST/PUT /event/face-config?search=name 姓名模糊查询已注册人脸信息
69  # request
70  {
71      "name":"t",
```

```
 72        "beginPosition":0,
 73        "endPosition":19
 74  }
 75  # response
 76  {
 77      "matchList":[
 78          {
 79              "iAccessCardNumber": 11,
 80              "iAge": 50,
 81              "iFaceDBId": 1,
 82              "iLoadCompleted": 1,
 83              "id": 0,
 84              "sAddress": "",
 85              "sBirthday": "1970-01-01",
 86              "sCertificateNumber": "",
 87              "sCertificateType": "identityCard",
 88              "sGender": "male",
 89              "sHometown": "",
 90              "sListType": "permanent",
 91              "sName": "test",
 92              "sNation": "汉族",
 93              "sNote": "",
 94              "sPicturePath": "/userdata/media/white_list/test_0.jpg",
 95              "sRegistrationTime": "2020-08-27T16:11:06",
 96              "sTelephoneNumber": "",
 97              "sType": "whiteList"
 98          }
 99      ],
100      "numOfMatches":1
101  }
```

14.6 face

```
 1  # GET /event/face/id id为数字，获取对应id的人脸信息
 2  # response
 3  {
 4      "iAccessCardNumber": 11,
 5      "iAge": 50,
 6      "iFaceDBId": 1,
 7      "iLoadCompleted": 1,
 8      "id": 0,
 9      "sAddress": "",
10      "sBirthday": "1970-01-01",
11      "sCertificateNumber": "",
12      "sCertificateType": "identityCard",
13      "sGender": "male",
14      "sHometown": "",
15      "sListType": "permanent",
16      "sName": "test",
17      "sNation": "汉族",
18      "sNote": "",
19      "sPicturePath": "/userdata/media/white_list/test_0.jpg",
20      "sRegistrationTime": "2020-08-27T16:11:06",
21      "sTelephoneNumber": "",
22      "sType": "whiteList"
```

```
23  }
24
25  # POST/PUT /event/face 人脸注册，返回人脸照片上传地址
26  # request
27  {
28      "iAccessCardNumber":0,
29      "sTelephoneNumber":"",
30      "sAddress":"",
31      "sBirthday":"1970-01-01",
32      "sCertificateNumber":"",
33      "sCertificateType":"identityCard",
34      "sGender":"male",
35      "sHometown":"",
36      "sListType":"permanent",
37      "sName":"test",
38      "sNation":"汉族",
39      "sNote":"undone",
40      "sType":"whiteList",
41      "iFaceDBId":-2
42  }
43  # response
44  {
45      "id":2,
46      "sPicturePath":"/userdata/media/white_list/test_2.jpg"
47  }
48
49  # POST/PUT /event/face/id id为数字，修改对应id的人脸信息
50  # request
51  {
52      "iAccessCardNumber":0,
53      "sTelephoneNumber":"",
54      "sAddress":"",
55      "sBirthday":"1970-01-01",
56      "sCertificateNumber":"",
57      "sCertificateType":"identityCard",
58      "sGender":"male",
59      "sHometown":"",
60      "sListType":"permanent",
61      "sName":"test",
62      "sNation":"汉族",
63      "sNote":"undone",
64      "sType":"whiteList"
65  }
66  # response
67  {
68      "iAccessCardNumber":0,
69      "iAge":50,
70      "iFaceDBId":2,
71      "iLoadCompleted":1,
72      "id":1,
73      "sAddress":"",
74      "sBirthday":"1970-01-01",
75      "sCertificateNumber":"",
76      "sCertificateType":"identityCard",
77      "sGender":"male",
78      "sHometown":"",
79      "sListType":"permanent",
80      "sName":"test",
```

```
81        "sNation":"汉族",
82        "sNote":"undone",
83        "sPicturePath":"/userdata/media/white_list/test_1.jpg",
84        "sRegistrationTime":"2020-08-29T16:06:52",
85        "sTelephoneNumber":"",
86        "sType":"whiteList"
87  }
88
89  # DELETE /event/face/id id为数字，删除对应id的人脸信息
90  # response
91  {}
```

14.7 face-config

```
1   # GET /event/face-config 获取人脸参数配置（闸机）
2   # response
3   {
4       "iDetectHeight": 1280,
5       "iDetectWidth": 720,
6       "iFaceDetectionThreshold": 55,
7       "iFaceMinPixel": 144,
8       "iFaceRecognitionThreshold": 50,
9       "iLeftCornerX": 0,
10      "iLeftCornerY": 0,
11      "iLiveDetectThreshold": 50,
12      "iNormalizedHeight": 1280,
13      "iNormalizedWidth": 720,
14      "iPromptVolume": 50,
15      "id": 0,
16      "sLiveDetect": "open",
17      "sLiveDetectBeginTime": "00:00",
18      "sLiveDetectEndTime": "23:59"
19  }
20
21  # POST/PUT /event/face-config 配置人脸参数
22  # request
23  {
24      "iDetectHeight": 1280,
25      "iDetectWidth": 720,
26      "iFaceDetectionThreshold": 55,
27      "iFaceMinPixel": 144,
28      "iFaceRecognitionThreshold": 50,
29      "iLeftCornerX": 0,
30      "iLeftCornerY": 0,
31      "iLiveDetectThreshold": 50,
32      "iNormalizedHeight": 1280,
33      "iNormalizedWidth": 720,
34      "iPromptVolume": 50,
35      "id": 0,
36      "sLiveDetect": "open",
37      "sLiveDetectBeginTime": "00:00",
38      "sLiveDetectEndTime": "23:59"
39  }
40  # response
41  {
```

```
42        "iDetectHeight": 1280,
43        "iDetectWidth": 720,
44        "iFaceDetectionThreshold": 55,
45        "iFaceMinPixel": 144,
46        "iFaceRecognitionThreshold": 50,
47        "iLeftCornerX": 0,
48        "iLeftCornerY": 0,
49        "iLiveDetectThreshold": 50,
50        "iNormalizedHeight": 1280,
51        "iNormalizedWidth": 720,
52        "iPromptVolume": 50,
53        "id": 0,
54        "sLiveDetect": "open",
55        "sLiveDetectBeginTime": "00:00",
56        "sLiveDetectEndTime": "23:59"
57    }
```

14.8 face-waiting

```
1   # GET /event/face-waiting 获取注册中的照片数量
2   # response
3   {
4        "numOfWaiting": 0
5   }
```

14.9 smart

```
1   # GET /event/smart/cover 获取人脸配置（IPC）
2   # 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
3   {
4        "iBodyHeightRatio": 100,
5        "iFaceEnabled": 0,
6        "iFaceHeightRatio": 100,
7        "iFaceRecognitionEnabled": 0,
8        "iImageOverlayEnabled": 0,
9        "iInfoOverlayEnabled": 0,
10       "iStreamOverlayEnabled": 0,
11       "iWidthRatio": 100,
12       "id": 0,
13       "infoOverlay": [
14            {
15                 "iEnabled": 0,
16                 "iOrder": 0,
17                 "id": 0,
18                 "sInfo": "",
19                 "sName": "deviceNum"
20            },
21            {
22                 "iEnabled": 0,
23                 "iOrder": 1,
24                 "id": 1,
```

```
25              "sInfo": "",
26              "sName": "snapTime"
27          },
28          {
29              "iEnabled": 0,
30              "iOrder": 2,
31              "id": 2,
32              "sInfo": "",
33              "sName": "positonInfo"
34          }
35      ],
36      "sImageQuality": "good",
37      "sTargetImageType": "head"
38  }
39
40  # POST/PUT /event/smart/cover 配置人脸（IPC）
41  # request
42  {
43      "iBodyHeightRatio": 100,
44      "iFaceEnabled": 0,
45      "iFaceHeightRatio": 100,
46      "iFaceRecognitionEnabled": 0,
47      "iImageOverlayEnabled": 0,
48      "iInfoOverlayEnabled": 0,
49      "iStreamOverlayEnabled": 0,
50      "iWidthRatio": 100,
51      "id": 0,
52      "infoOverlay": [
53          {
54              "iEnabled": 0,
55              "iOrder": 0,
56              "id": 0,
57              "sInfo": "",
58              "sName": "deviceNum"
59          },
60          {
61              "iEnabled": 0,
62              "iOrder": 1,
63              "id": 1,
64              "sInfo": "",
65              "sName": "snapTime"
66          },
67          {
68              "iEnabled": 0,
69              "iOrder": 2,
70              "id": 2,
71              "sInfo": "",
72              "sName": "positonInfo"
73          }
74      ],
75      "sImageQuality": "good",
76      "sTargetImageType": "head"
77  }
78  # response
79  {
80      "iBodyHeightRatio": 100,
81      "iFaceEnabled": 0,
82      "iFaceHeightRatio": 100,
```

```
 83        "iFaceRecognitionEnabled": 0,
 84        "iImageOverlayEnabled": 0,
 85        "iInfoOverlayEnabled": 0,
 86        "iStreamOverlayEnabled": 0,
 87        "iWidthRatio": 100,
 88        "id": 0,
 89        "infoOverlay": [
 90            {
 91                "iEnabled": 0,
 92                "iOrder": 0,
 93                "id": 0,
 94                "sInfo": "",
 95                "sName": "deviceNum"
 96            },
 97            {
 98                "iEnabled": 0,
 99                "iOrder": 1,
100                "id": 1,
101                "sInfo": "",
102                "sName": "snapTime"
103            },
104            {
105                "iEnabled": 0,
106                "iOrder": 2,
107                "id": 2,
108                "sInfo": "",
109                "sName": "positonInfo"
110            }
111        ],
112        "sImageQuality": "good",
113        "sTargetImageType": "head"
114  }
```

14.10 get-record-status

```
1  # GET /event/get-record-status 获取录像状态
2  # response 0未录像，1录像中
3  0
```

14.11 last-face

```
1  # GET /event/last-face 获取已注册人脸信息中最后一个的id
2  # response
3  {
4      "id": 0
5  }
```

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",
```

```
81            "sTelephoneNumber":"",
82            "sTime":"2020-08-29T15:33:46",
83            "sType":"whiteList"
84        }
85    ],
86    "numOfMatches":1
87  }
88
89  # DELETE /event/control-record/id id为数字，删除对应id的控制记录
90  # response
91  {}
```

14.14 check-face

```
1   # 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
2   # request
3   null
4   # response
5   [
6       {
7           "iLoadCompleted":-1,
8           "sName":"test",
9
     "sPicturePath":"http://172.16.21.106/userdata/white_list/test_1.jpg",
10      }
11  ]
```

14.15 reset-face

```
1   # POST/PUT /event/reset-face 重置人脸数据库
2   # request
3   null
4   # response
5   {}
```

14.16 reset-snap

```
1   # POST/PUT /event/reset-snap 重置抓拍记录
2   # request
3   null
4   # response
5   {}
```

14.17 reset-control

```
1  # POST/PUT /event/reset-control 重置控制记录
2  # request
3  null
4  # response
5  {}
```

14.18 face-picture

```
1  # POST/PUT /event/face-picture?path=address address地址字符串，上传人脸图像
2  # request
3  Content-Type: multipart/form-data
4  Form Data：照片数据
5  # response
6  {}
7
8  # POST/PUT /event/face-picture?copy-path=address address地址字符串，复制人脸图像
   到address
9  # request
10 {
11     "path": "old_address"
12 }
13 # response
14 {}
```

14.19 take-photo

```
1  # POST/PUT /event/take-photo 抓拍主码流
2  # request
3  null
4  # response
5  {}
```

14.20 start-record

```
1  # POST/PUT /event/start-record 开始录像
2  # request
3  null
4  # response
5  {}
```

14.21 stop-record

```
1  # POST/PUT /event/stop-record 停止录像
2  # request
3  null
4  # response
5  {}
```

15. audio

```
1   # GET audio/0 获取音频配置
2   # response
3   {
4       "iBitRate":32000,
5       "iSampleRate":16000,
6       "iVolume":50,
7       "id":0,
8       "sANS":"close",
9       "sEncodeType":"MP2",
10      "sInput":"micIn"
11  }
12
13  # POST/PUT audio/0 配置音频参数
14  # request
15  {
16      "iBitRate":32000,
17      "iSampleRate":16000,
18      "iVolume":50,
19      "id":0,
20      "sANS":"close",
21      "sEncodeType":"MP2",
22      "sInput":"micIn"
23  }
24  # response
25  {
26      "iBitRate":32000,
27      "iSampleRate":16000,
28      "iVolume":50,
29      "id":0,
30      "sANS":"close",
31      "sEncodeType":"MP2",
32      "sInput":"micIn"
33  }
```

16. 常见异常响应

16.1 401

```
1   1.cookie过期，需重新登录申请cookie
2   {
3       "error": {
4           "code": 401,
5           "message": "token verification failed: not found cookie"
6       }
7   }
8
9   2.cookie中携带登录信息错误，需重新登录申请cookie
10  {
11      "error": {
12          "code": 401,
13          "message": "Unauthorized"
14      }
15  }
```

16.2 500

```
1   1.request中携带的json存在数据类型错误
2   {
3       "error": {
4           "code": 500,
5           "message": "json.exception.type_error.304"
6       }
7   }
8
9   2.请求的id或key不在规定范围内
10  {
11      "error": {
12          "code": 500,
13          "message": "json.exception.out_of_range.403"
14      }
15  }
16
```

16.3 501

```
1   1. 无效URL
2   {
3       "error": {
4           "code": 501,
5           "message": "Not Implemented"
6       }
7   }
```