
人脸识别一体机 MQTT 协议

MQTT protocol of face
recognition integrated machine

V1.28

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catalogue

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*修改记录

* modify the record

| 版本号 version number | 日期 date | 变更 类型 Change type (A*M *D) | 修改人 Modifier | 摘要 abstract | 审核人 Reviewer | 备注 remarks |
|--------------------------|------------|---|-----------------|---|-----------------|---------------|
| V1-0.1 | 2019-11-27 | A | CaiFF | 新建 new-built | | |
| V1-0.2 | 2019-11-28 | M | CaiFF | 1、修改 5 认证识别人员信息上传 1. modification 5. Upload the information of authentication and identification personnel 2、修改 6 陌生人人员信息上传 2. Modification 6 stranger personnel information upload | | |
| V1-0.3 | 2019-12-05 | M | CaiFF | 1、增加 4.5 删除所有人员名单 1. increase 4.5 Delete all personnel lists 2、增加 7.3 获取当前软件版本 2. Increase 7.3 Get the current software version 3、增加 9.参数配置 3. Increase 9. Parameter configuration | | |

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| V1-0.4 | 2019-12-17 | M | CaiFF | 1、增加 9.2 声音及界面显示参数 1. increase 9.2 Sound and Interface Display Parameters 2、增加 9.3 开门条件及输出控制 2. Increase 9.3 Opening Conditions and Output Control | | |
| V1-0.4 | 2020-01-17 | M | CaiFF | 1、增加 9.4 HTTP 订阅推送 1. increase 9.4 HTTP subscription push | | |
| V1-0.5 | 2020-01-18 | M | CaiFF | 1、增加 9.4.3 设置 HTTP 订阅推送参数 1. increase 9.4.3 Set HTTP subscription push parameters 2、增加 9.4.4 设置 HTTP 订阅推送参数返回 2. Increase 9.4.4 Set HTTP subscription push parameters to return | | |
| V1-0.6 | 2020-02-17 | M | CaiFF | 1、增加陌生人生和认证人员实时检测温度上报 1. Increase the real-time detection temperature report of Mo Life and Certification staff | | |
| V1-0.7 | 2020-02-18 | M | CaiFF | 修改 3.2.2 发布话题 页面截图 modify 3.2.2 Publish the topic Page screenshot | | |
| V1-0.7 | 2020-02-29 | M | CaiFF | 1、修改 5 认证识别人员信息上传 1. modification 5. Upload the information of authentication and identification personnel 2、修改 6 陌生人人员信息上传 2. Modification 6 stranger personnel information upload 3、增加 9.5 温度参数 3. Increase 9.5 temperature parameters | | |

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| V1-0.8 | 2020-03-03 | M | CaiFF | 1、增加 9.5 温度参数口罩温度检测模式 1. increase 9.5 temperature parameters Mask temperature detection mode | | |
| V1-0.8 | 2020-03-06 | M | CaiFF | 1、增加 5 认证识别人员信息上传相似度上报 1. increase 5. Upload the information of authentication and identification personnel Similarity reporting 2、增加 9.5 温度参数 Distance 字段 2. Increase 9.5 temperature parameters Distance field | | |
| V1-0.9 | 2020-03-09 | M | CaiFF | 1、增加 10 设备上线下线通知 1. increase 10 equipment online and offline notification | | |
| V1-0.9 | 2020-03-10 | M | CaiFF | 1、修改 4.1 增加和修改人员名单接口示例 1. modification 4.1 Add and modify personnel list interface example | | |
| V1-10 | 2020-03-11 | M | CaiFF | 1、修改 10 设备上线下线通知推送的话题为 mqtt/face/basic 1. modification 10 equipment online and offline notification The pushed topic is mqtt/face/basic 2、增加 9.6MQTT 上报参数 2. Increase 9.6MQTT reporting parameters | | |

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| V1-11 | 2020-03-21 | M | CaiFF | <p>3、修改 9.3 开门条件及输出控制开门验证方式</p> <p>3. Modification 9.3 Opening Conditions and Output Control Door opening verification method</p> <p>4、删除 9.5 温度参数口罩温度检测模式</p> <p>4. Delete 9.5 temperature parameters Mask temperature detection mode</p> <p>5、修改 5 认证识别人员信息上传验证类型说明</p> <p>5. Modification 5. Upload the information of authentication and identification personnel Authentication type description</p> <p>6、修改 6 陌生人人员信息上传表格</p> <p>6. Modification 6 stranger personnel information upload form</p> | | |
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| V1-12 | 2020-04-06 | M | CaiFF | <p>1、增加 5 认证识别人员信息上传 RecordID</p> <p>1. increase 5. Upload the information of authentication and identification personnel RecordID</p> <p>2、增加 6 陌生人人员信息上传 SnapID</p> <p>2. Increase 6 stranger personnel information upload SnapID</p> <p>3、增加 9.6MQTT 上报参数断网续传参数</p> <p>3. Increase 9.6MQTT reporting parameters Parameters of disconnection and continuous transmission</p> <p>4、增加 9.7 重启设备</p> <p>4. Increase 9.7 Restart the equipment</p> <p>5、增加 9.8 系统时间</p> <p>5. Increase 9.8 system time</p> <p>6、增加 9.9 恢复出厂</p> <p>6. Increase 9.9 Restore the factory</p> <p>7、增加 11 断网续传</p> <p>7. Increase 11. Continuous transmission after network interruption</p> | | |
| V1-13 | 2020-04-08 | M | CaiFF | <p>1、增加 12 广告播放</p> <p>1. increase 12 advertisement broadcasting</p> <p>2、增加 13 播放语音文件</p> <p>2. Increase 13 play voice files</p> | | |
| V1-14 | 2020-04-17 | M | CaiFF | <p>1、增加 14 二维码</p> <p>1. increase 14 QR code</p> | | |
| V1-15 | 2020-04-21 | M | CaiFF | <p>1、增加 4.6 批量增加人员(URI)</p> <p>1. increase 4.6 batch increase of personnel (URI)</p> | | |

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| V1-16 | 2020-04-24 | M | CaiFF | 1、增加 14 二维码上报示例 1. increase 14 QR code Reporting examples | | |
| V1-17 | 2020-05-15 | M | CaiFF | 1、增加 4.6 批量增加人员(URI)人员相似度检测 1. increase 4.6 batch increase of personnel (URI) Personnel similarity detection 2、修改 表格样式 2. Modify table style 3、修改 内置刷卡 RFIDCard 字段和 RfCardMode 配合使用 3. Modify the built-in swipe rfidcard field to use with rfcardmode 4、增加 3.15 心跳 4. Increase 15 heart rate 5、增加 4.7 批量修改人员(URI) 5. Increase 4.7 batch modification personnel (URI) 6、增加 4.8 查询批量添加/修改人员进度 6. Increase 4.8 query batch adding / modifying personnel progress 7、增加 4.9 批量删除人员名单 7. Increase 4.9 Batch deletion of personnel list 8、增加 5 认证识别人员信息上传名单类型和认证结果字段 8. Increase 5. Upload the information of authentication and identification personnel List type and authentication result fields | | |
| V1-18 | 2020-05-28 | M | CaiFF | 1、增加 9.3.5 开门方式简介 1. increase 9.3.5 introduction to door opening mode | | |

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|-------|------------|---|-------|--|--|--|
| V1-19 | 2020-07-27 | M | CaiFF | <p>1、修改 9.5 温度参数 modify 9.5 temperature parameters</p> <p>2、增加 4.10 批量添加或修改人员(URI) increase four point one zero Batch add or modify people (URI)</p> <p>3、涉及名单的接口表格增加 telnum1、native、address 字段注释 Add telnum1, native and address field comments to the interface table involving the list</p> <p>4、增加 16 获取抓拍场景图 increase 16 get the snapshot scene map</p> <p>5、增加 17 图片比较相似度 increase 17 picture comparison similarity</p> <p>6、增加 18 以图搜索本地人脸库 increase 18 to search the local face database</p> <p>7、增加 19 检测图片人脸 7. Increase 19 detect the face of the picture</p> | | |
| V1-20 | 2020-07-30 | M | CaiFF | <p>1、增加 20 手动推送控制记录 1. increase 20 manual push control records</p> | | |
| V1-20 | 2020-08-06 | M | CaiFF | <p>1、修改 4.2.1 查询设备中所有人的 customId 1. modification 4.2.1 query the customid of the owner in the device</p> | | |
| V1-20 | 2020-08-06 | M | CaiFF | <p>1、修改 14 二维码,增加图片显示及显示位置大小自定义 1. modification 14 QR code , add picture display and display position size customization</p> | | |

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| V1-21 | 2020-08-14 | M | CaiFF | 1、增加 4.2.3 多人名单查询 1. increase 4.2.3 multi person list query | | |
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| V1-22 | 2020-09-05 | M | CaiFF | <p>1、增加 9.10 人脸识别参数 increase 9.10 face recognition parameters</p> <p>2、增加 4.1 增加和修改人员名单接口错误码 increase 4.1 Add and modify error codes of personnel list interface</p> <p>3、增加 4.2.2 查询单个人员名单详细信息错误码 increase 4.2.2 error code for querying detailed information of single personnel list</p> <p>4、增加 4.2.3 多人名单查询错误码 4. Increase 4.2.3 Error code of multi person list query</p> <p>5、增加 4.3 删除单个人员名单错误码 5. Increase 4.3 Delete a single personnel list error code</p> <p>6、增加 4.5 删除所有人员名单错误码 6. Increase four point five Delete all personnel list error code</p> <p>7、修改 4.6 批量增加人员(URI)错误码 4.7 批量修改人员(URI)错误码和 4.10 批量添加或修改人员(URI)错误码 7. Modification 4.6 Error Code of Adding Personnel in Batch (URI) 4.7 Error Code of Batch Modifier (URI) and 4.10 Batch Add or Modify Person (URI) Error Codes</p> <p>8、增加 4.9 批量删除人员名单错误码 8. Increase 4.9 Error Code of Batch Delete Personnel List</p> <p>9、增加 9.1.3 设置系统参数错误码 9. Increase 9.1.3 setting system parameter error code</p> <p>10、增加 9.2.3 设置声音及界面显示参数错误码 10. Increase 9.2.3 setting error codes for sound and interface display parameters</p> <p>11、增加 9.3.3 设置开门条件及输出控制</p> | | |
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| V1-23 | 2020-10-21 | M | CaiFF | <p>1、增加附录 A A.1 民族，并修改文档中民族释义</p> <p>increase Appendix a.1 Nationalities And modify the national definition in the document</p> <p>2、修改 5 认证识别人员信息上传,增加推送类型</p> <p>modify 5. Upload the information of authentication and identification personnel , add push type</p> | | |
| V1-23 | 2020-10-30 | M | CaiFF | <p>1、增加 21 身份证信息上报</p> <p>1. increase 21 ID card information report</p> <p>2、修改 9.6MQTT 上报参数，增加身份证信息订阅上报字段</p> <p>2. Modification 9.6MQTT reporting parameters , add ID card information subscription report field</p> | | |
| V1-23 | 2020-11-05 | M | CaiFF | <p>1、修改 9.2 声音及界面显示参数</p> <p>1. modification 9.2 Sound and Interface Display Parameters</p> <p>2、修改 9.3 开门条件及输出控制</p> <p>2. Modification 9.3 Opening Conditions and Output Control</p> <p>3、修改 9.10 人脸识别参数</p> <p>3. Modification 9.10 face recognition parameters</p> | | |
| V1-24 | 2020-11-24 | M | CaiFF | <p>1、增加 22 手动推送陌生人抓拍记录</p> <p>increase 22 Manually push strangers to capture records</p> <p>2、增加 23 IC 或 RF 卡号上报</p> <p>2. Increase 23 IC or RF card number report</p> | | |

| | | | | | | |
|-------|------------|---|-------|--|--|--|
| V1-25 | 2021-01-12 | M | CaiFF | 1、修改 5 认证识别人员信息上传，增加国康码部分数据定义说明 1. modification 5. Upload the information of authentication and identification personnel Add some data definition description of Guokang code | | |
| V1-26 | 2021-03-01 | M | CaiFF | 1、修改 9.6MQTT 上报参数 modify 9.6MQTT reporting parameters 2、增加 9.11 4G 信息上报 increase 9.11 4G information reporting | | |
| V1-27 | 2021-03-25 | M | CaiFF | 1、修改 9.5 温度参数 1. modification 9.5 temperature parameters | | |
| V1-28 | 2021-05-18 | M | CaiFF | 1、修改 9.6MQTT 上报参数 1. modification 9.6MQTT reporting parameters 2、增加 9.11 4G 信息上报 2. Increase 9.11 4G information reporting | | |
| V1-28 | 2021-05-20 | M | CaiFF | 1、增加 9.12 RTSP 参数 1. increase 9.12 RTSP parameters | | |

1 概述

1 overview

MQTT (Message Queuing Telemetry Transport, 消息队列遥测传输) 是 IBM (国际商业机器公司) 开发的一个即时通讯协议。

Mqtt (message queuing telemetry transport) is an instant messaging protocol developed by IBM.

它是一种基于发布/订阅模式的“轻量级”通讯协议, 该协议构建于 TCP/IP 协议上, 专为受限设备和低带宽, 高延迟或不可靠的网络而设计。

It is a "lightweight" communication protocol based on publish / subscribe mode. It is built on TCP / IP protocol and designed for limited devices and low bandwidth, high latency or unreliable networks.

人脸识别一体机采用的是 MQTT 协议 v3.1.1 版本, QoS: 1。

Face recognition machine adopts mqtt protocol v3.1.1, QoS: 1.

本文档主要用于人脸识别一体机和服务器端交互数据的 mqtt 协议文档, 适用于系统开发与维护人员。

This document is mainly used for mqtt protocol document of interactive data between face recognition all-in-one machine and server, and is suitable for system development and maintenance personnel.

2 功能详细设计

2 functional detailed design

数据交换格式:

Data exchange format:

1. 数据交换基本以 json 格式为主。
1. Data exchange is mainly based on JSON format.

-
2. 图像内容为 Base64 编码或者图片 URI 地址。
 2. The image content is Base64 encoding or image URI address.

3 环境和客户端搭建

3 environment and client construction

为了快速上手和了解 MQTT 的工作机制，我们在本章节说明了如何在 windows 端快速加载 MQTT 中间代理服务器，以及 MQTT 的客户端模拟工具 mqtt.box 或 mqtt.fx（mqtt.box 对于大数据发送和订阅会有卡顿，mqtt.fx 只适合订阅接收话题消息，**不适合**模拟下发带有**中文字符**的数据）。正式线上平台对接的时候，可以**不用**搭建 windows 端的中间代理服务器以及客户端工具等。以下介绍的中间代理服务器搭建和 mqtt 客户端工具只是测试工具，**正式使用需要平台去集成开发**。

In order to get started quickly and understand the working mechanism of mqtt, this chapter describes how to quickly load the mqtt intermediate proxy server on the windows side, as well as the mqtt.box or mqtt.fx (mqtt.box will have stuck in sending and subscribing to big data, mqtt.fx is only suitable for subscribing to receive topic messages, not for simulating and distributing data with Chinese characters).When the formal online platform docking,There is no need to build an intermediate proxy server and client tools on the windows side.The intermediate proxy server construction and mqtt client tools described below are only test tools, and the platform is required to integrate development for formal use.

3.1 windows mqtt 平台服务搭建(不是必须安装,仅 windows 测试需要此步骤)

3.1 build windows mqtt platform service (not required, only required for windows testing)

1. 根据自己的电脑和系统参考网上步骤下载和安装 jdk , 只要 JDK8 即可(以下是我测试安装的 jdk 版本)

1. Download and install JDK according to your own computer and system, as long as jdk8 (the following is the version of JDK I tested and installed)

```
Microsoft Windows [版本 10.0.19041.572]
(c) 2020 Microsoft Corporation. 保留所有权利。

C:\Users\Cff>java -version
java version "1.8.0_221"
Java(TM) SE Runtime Environment (build 1.8.0_221-b11)
Java HotSpot(TM) 64-Bit Server VM (build 25.221-b11, mixed mode)

C:\Users\Cff>_
```

2. 下载 apache-apollo-1.7.1-windows 版本, 这里提供一个链接地址 <http://archive.apache.org/dist/activemq/activemq-apollo/1.7.1/>

2. Download apache-apollo-1.7.1-windows. Here is a link <http://archive.apache.org/dist/activemq/activemq-apollo/1.7.1/>

3. 以管理员身份打开 cmd, 进入解压后文件里的 bin 目录

3. Open the CMD as an administrator and enter the bin directory in the decompressed file

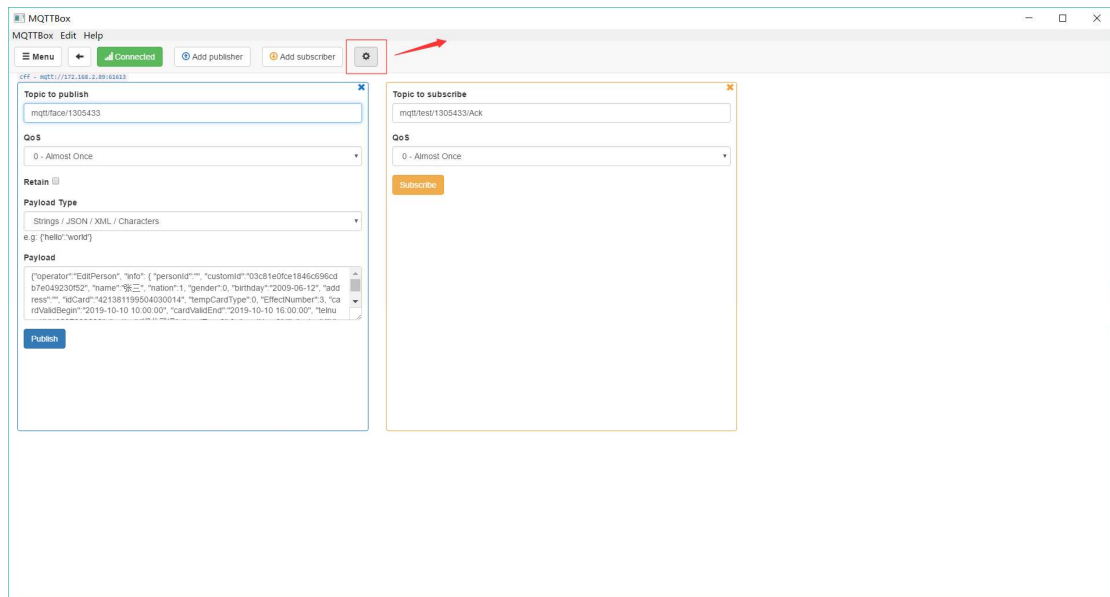
4. 执行命令: 创建一个目录(以下路径为示例)

4. Execute the command: create a directory (the following path is an example)

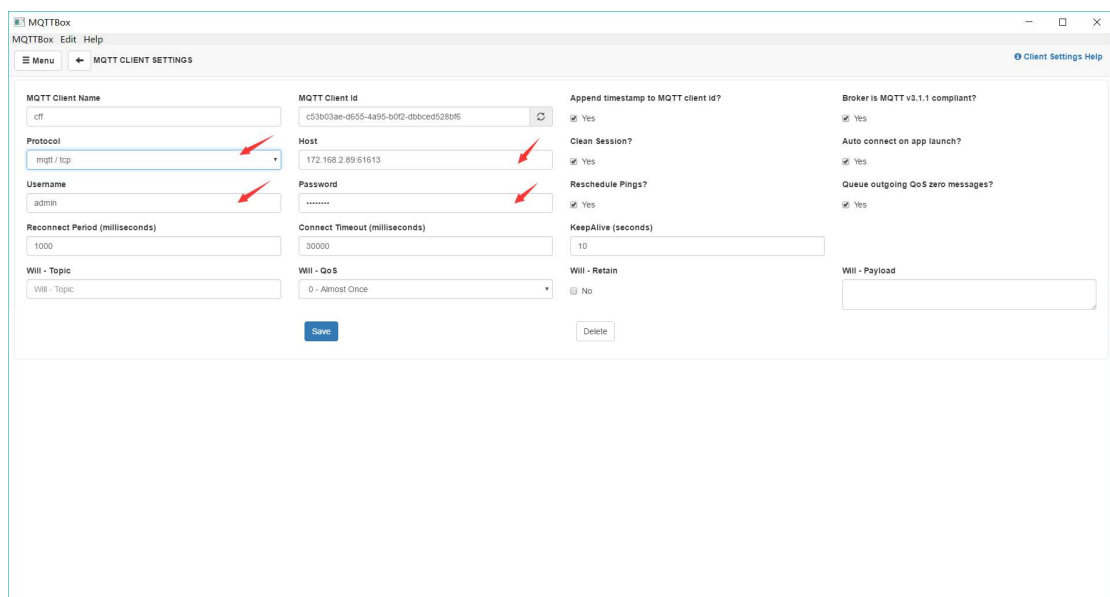
apollo create myapollo C:\apache-apollo\broker

5. 创建成功后进入 broker\bin 目录下执行 apollo-broker.cmd run 命令开启服务

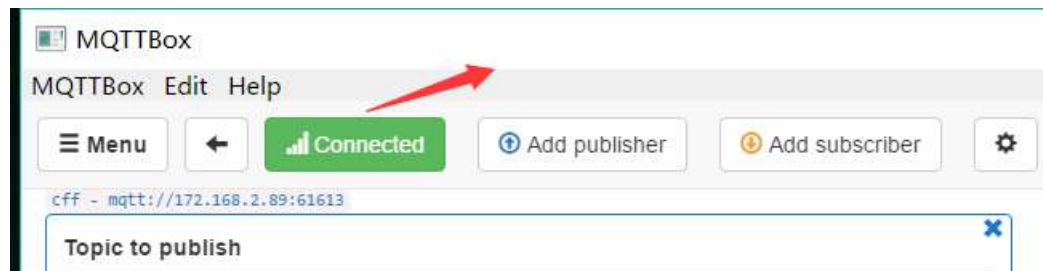
After successful creation, enter the broker / bin directory and execute the apollo-broker.cmd run command to start the service



主要填入 mqtt 服务主机地址和端口（端口默认 61613）账号和密码
Mainly fill in the mqtt service host address and port (port default 61613) account number and password



显示绿色即代表连接成功
Green indicates that the connection is successful



3.2.2 发布话题

3.2.2 Publish the topic

1. 首先先确认人脸识别一体机的版本是否适合本说明文档，以及查看人脸识别一体机 MQTT 设置，闸机云 ID 号一般填入人脸识别一体机的本机 ID，云地址即上一步创建的 mqtt 服务的主机电脑的 IP 地址，云端口即上一步创建的 mqtt 服务主机端口，用户名和密码和上一步创建的一致，填入云话题 Topic 即人脸识别一体机将会订阅的话题（将是服务器发布话题的 Topic，服务器下发人员名单的 Topic）。

1. firstly, confirm whether the version of all-in-one face recognition machine is suitable for this description document, and check the MQTT settings of all-in-one face recognition machine. the gate cloud ID number is generally filled in the local ID of all-in-one face recognition machine. the cloud address is the IP address of the host computer of mqtt service created in the previous step, and the cloud port is the host port of mqtt service created in the previous step. the user name and password are the same as those created in the previous step. Fill in the cloud Topic, that is, the Topic that the face recognition all-in-one machine will subscribe to (it will be the Topic that the server publishes and the topic that the server issues the personnel list).

版本信息及本机 ID（本机 ID 唯一）：

Version information and local ID (local ID is unique):

The screenshot shows the 'FACE SERVER' web interface. The left sidebar contains a menu with '系统参数' (System Parameters) selected. The main content area displays various system settings. The '系统信息' (System Information) tab is active, showing fields for '本机名称' (Machine Name) set to 'Face1', '本机ID' (Machine ID) set to '1305433', '版本号' (Version) set to 'V12.5.6L3M-1.0.6.10', and '版本生成时间' (Version Generation Time) set to '2020-01-07/09:28:01'. Below these are network settings: 'Web端口' (Web Port) set to '80', 'DHCP' checkbox, 'IP地址' (IP Address) set to '172.168.2.96', '子网掩码' (Subnet Mask) set to '255.255.255.0', '网关' (Gateway) set to '172.168.2.1', 'MAC地址' (MAC Address) set to 'ae:85:2e:b5:28:b6', '首选DNS' (Preferred DNS) set to '202.96.134.33', and '备用DNS' (Backup DNS) set to '202.96.128.86'. There is an 'IP检测' (IP Detection) button next to the IP address field. At the bottom, there is a checkbox for 'ip冲突定时检测' (IP Conflict Scheduled Detection) and a red warning message: '* 修改IP地址、子网掩码、网关或Web端口，软件将重启!' (Modifying IP address, subnet mask, gateway, or Web port, the software will restart!). A '保存' (Save) button is at the bottom.

| | |
|--------|--------------------------|
| 本机名称 | Face1 |
| 本机ID | 1305433 |
| 版本号 | V12.5.6L3M-1.0.6.10 |
| 版本生成时间 | 2020-01-07/09:28:01 |
| Web端口 | 80 |
| DHCP | <input type="checkbox"/> |
| IP地址 | 172.168.2.96 |
| 子网掩码 | 255.255.255.0 |
| 网关 | 172.168.2.1 |
| MAC地址 | ae:85:2e:b5:28:b6 |
| 首选DNS | 202.96.134.33 |
| 备用DNS | 202.96.128.86 |

ip冲突定时检测 ☐

* 修改IP地址、子网掩码、网关或Web端口，软件将重启!

保存

MQTT 设置:

MQTT settings:

WEB SERVICE

FACE SERVER

系统管理 名单管理 抓拍记录 控制记录

系统参数 MQTT

MQTT设置

是否启用 ☒

闸机云ID号 1305433

云地址 172.168.2.99

云端口 61613

出入口类型 出口

云端用户名 admin

云端密码

消息类型 Topics

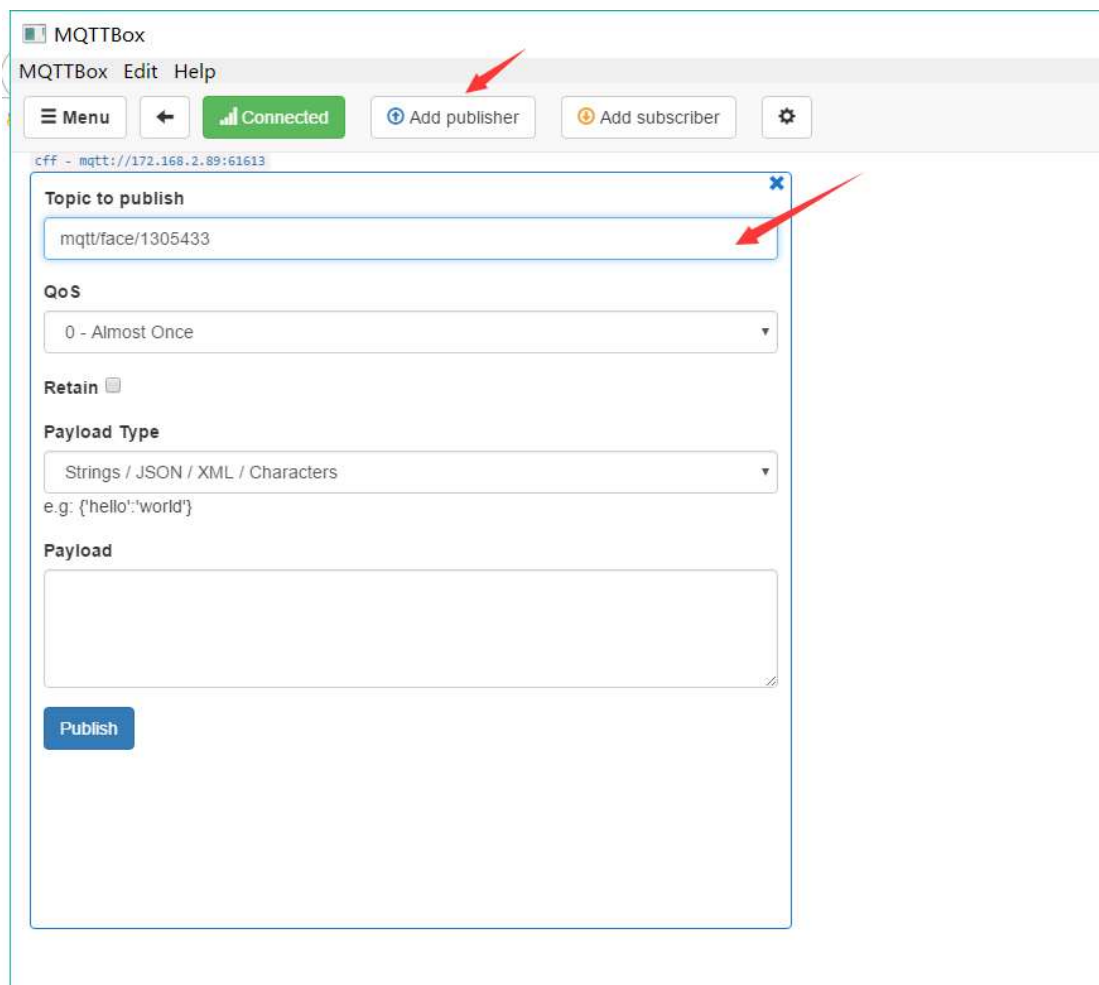
云话题Topic mqtt/face/1305433

服务器连接状态: 未连接, 登录失败!

保存

2. mqttbox 添加发布者后填写发布话题, 填写需要发布的 Topic (话题), 例如: **mqtt/face/ID**, 此话题即 mqttbox 客户端下发信息给人脸识别一体机的话题, 其中 ID 可以是人脸识别一体机的本机 ID (唯一且区别不同机器), 可参照下面数据内容填入。

2. After adding the publisher, MQTTB fills in the publishing Topic, and fills in the topic to be published, such as mqtt/face/ID, which is the topic that MQTTB client sends information to the face recognition all-in-one machine, where ID can be the native ID of the face recognition all-in-one machine (unique and different from different machines), and can be filled in by referring to the following data content.



3.2.3 订阅话题

3.2.3 Subscription topics

如上设置对应的 Topic 话题（mqtt/face/ID，其中 ID 指本机 ID，例如 1305433）后，人脸识别一体机会默认会将人脸识别结果和陌生人抓拍结果发送至对应以下相应话题，认证识别结果发送至话题 mqtt/face/ID/Rec（其中 ID 指本机 ID，例如 1305433）；陌生人抓拍发送至话题 mqtt/face/ID/Snap（其中 ID 指本机 ID，例如 1305433）；二维码扫码信息发送至话题 mqtt/face/ID/QRCode（其中 ID 指本机 ID，例如 1305433）；回复服务器下发指令信息结果发送至话题 mqtt/face/ID/Ack（其中 ID 指本机 ID，例如 1305433）。

After setting the corresponding Topic topic (mqtt/face/ID, where ID refers to the local ID, for example, 1305433), the face recognition integrated machine will send the face recognition results and stranger capture results to the corresponding topics below by default, and the authentication recognition results will be sent to

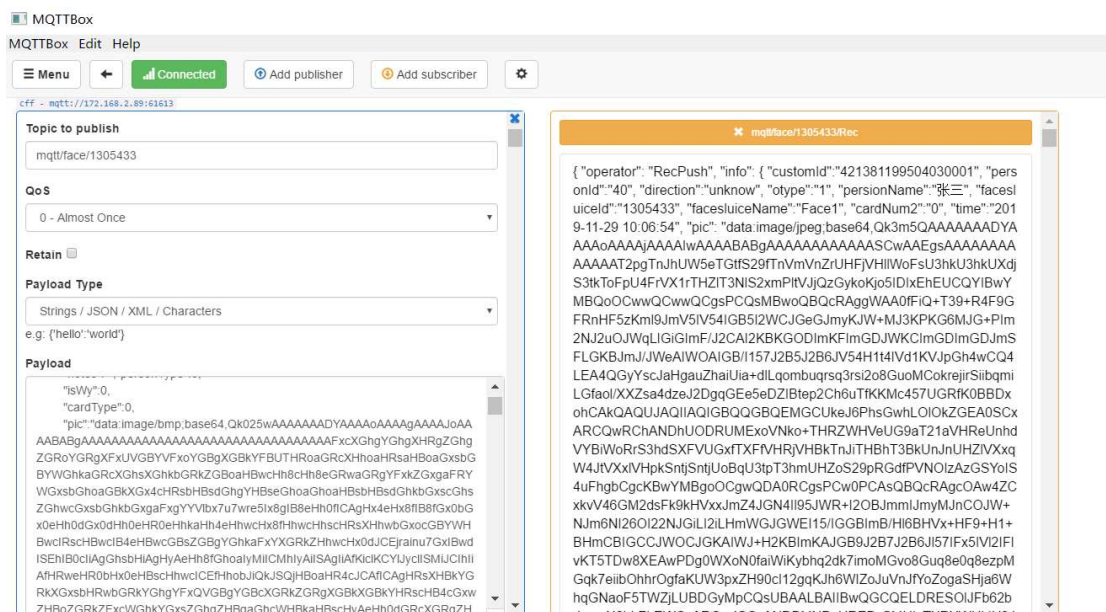
the topic mqtt/face/ID/Rec (where ID refers to the local ID, for example, 1305433); The stranger snaps and sends it to the topic mqtt/face/ID/Snap (where ID refers to the local ID, for example, 1305433);Two-dimensional code scanning information is sent to topic mqtt/face/ID/QRCode (where ID refers to local ID, for example, 1305433); The reply server sends the instruction information to the topic mqtt/face/ID/Ack (where ID refers to the local ID, for example, 1305433).

添加订阅者后, 订阅以上需要的话题; 例如订阅人员识别结果话题如下图:

After adding subscribers, subscribe to the above required topics; For example, the topic of subscriber identification results is as follows:

认证识别人员信息推送示例:

Example of information push of authentication identifier:



陌生人抓拍信息推送示例:

Example of strangers snapping information push:

MQTTBox

MQTTBox Edit Help

Menu

Connected

Add publisher

Add subscriber

CFF - mqtt://172.168.2.89:61613

Topic to publish

mqtt/face/1305433

QoS

0 - Almost Once

Retain

Payload Type

Strings / JSON / XML / Characters

e.g. {"hello":"world"}

Payload

"isWY":0,
"cardType":0,
"pic":"data:image/bmp;base64,Qk025wAAAAAADYAAAAAAGAAAAJoAA
AABABgAAAAAAAAAAAAAAAAAAAAAAAAAFxcXGhgYGHgXHRgZGHg
ZGRoYGRgXFxUVGBYVFxoYGBgXGBkYFBUTHRoAGRCXHoahRsaHBoaGxsbG
BYWGHkaGRcXGhsXGhkbGRkZGBoaHBwcHh8cHh8eGRwaGRgYFxlZGxgaFRY
WGxsbGhoaGBkXGx4cHRsbHBsdGhgYHBseGhoaGhoaHBsbHBsdGhkbGxscGhs
ZGhwcGxsbGhkbGxgaFxyYVtbx7u7wre5ix8glB8eHh0fICagHx4eHx8fB8fGx0bG
x0eHh0dGx0dHh0eHR0eHhkaHh4eHhwcHx8fHhwcHhscHRsXHhwbGxocGBYWH
BwclRscHBwclB4eHBwcGBsZGBgYGHkaFxyXGRkZHhwcHx0dJCejrainu7GxlBwd
ISEhIB0clIagGhsbHAgHyAeHh8fGhoalyMlCMhlyAilSagIiAfKclKCYjyclSMUChlI
AfrHrweHR0bHx0eHBscHhwcCEfHhobJIQKJISQJHBoaHR4cJCAfICagHRsXHBKYG
RkXGxsbHRwbGRKYGhgYFxcVGbgYGBcXGRkZGRgXGBkXGBkYHRscHB4cGxw
ZHBoZGRkZFxcWGhKYGxsZGHgZHBgaGhcWHBkaHBscHyAeHh0dGRcXGRgZH

mqtt/face/1305433/Snap

{ "operator": "StrSnapPush", "info": { "facesluiceId": "1305433", "facesluice
Name": "Face1", "direction": "unknown", "time": "2019-11-29 10:09:47", "pic":
"data:image/jpeg;base64,Qk3m5QAAAAAADYAAAAAAGAAAAIwAA
AABABgAAAAAAAAAAAAAScwAAEgsAAAAAAAAAAAAAYH0YnZxYXJr
WnBuVGMmXXRsYXhwZn11YHhuXnZsYXpwYXpwYXNvZHX0Z355aYB8X
m9vQ01UMztDTFIYTFtePUZKLzU6NTU9JyUuDwwVEQwVEAsUEw4XEA
kWcgcWDAsbBgccBwwAw0oBxUyEyZGJ0hYZ42ZMF6IVh/MWWWJNnC
TPXOWOW+SM2eLMmmMM2yQMGuPN2+WPneeQXqhP3qhQneiP3ilP
HiiQHqkQHeiPnmjOXegOHejN3aiN3eiOXWfPnSfPXWcQneeQXScQHGD
PW6aP3GbRHKbQWYRQmSPRF2BLJTFA0XEw4QEG4QERISOKAi6Wek
qqlo7m0rMC7r8O+usrDwdDlwtDKxtbPvM7FrsXAp8W/pcXApMK9qck+pL
25qsK6pcC3n7u1IK6riqGgX3B0UmJsPERRExlbDQIIDAQJCwMMEQKTE
goUEQgSDAQLCgMIDAcJew8LYWddmLesrsa8pb+1fiOEFQsXFA4TFhA
VEgwREA4OFRIUFhMVFBQUHy4lWW5gXG9lZnpuZ3hvZnZvYHB0YnNq
ZXZrYXFmandnXHNvZnp1ZXZzWXBlWnJlXXVlXHNrX3ZuYnpwYnpwXX
ZsYHlvY31wZH1zZH1ZHT3Y3V0WWVsOkNLNEBCSijYRU1RNzxBMTI5
LCs0Eg8YDQgRFA8Yew4XEGwXDQoZDAsbBwgcB0ohAgwlAg8rCh08G
zxMal+YQmylIvR7L2GFNW2QOnCTOXGUM2eLL2SJMGIIMMW2ROXOY
PXadPnifPXifQHwGPHagPXmjQHqkP3mjPHagOHWFN3aiN3aiOXeiOnWf
PXOePXSbPnKaQ3aeQXKePm+bPW+ZQG6XQm6TWiPRGOGSmf8Ki
49GBAaEg8RERIUKzEwfJWPILGrobeyqb+6rsK9uMjBvczEvszGw9PMwt
TLts3lqcS/osK9osC7pL25oLm1qcG5qM06nLu0lbCskqmdYIMUWJsSIng
Kio1EQcRDgMLCwMNDQAQOEAgSEAcRCwMKDQYLDgYKEgKMKjUziK
maccK4t6k6u6d0Fw4V5e0DGBVMA4TEcEDFBETD0IIFBVTb4Xc4bV

4 数据传输

4 data transmission

云平台（服务器）对人脸识别一体机设备发送的指令全部都是往人脸识别一体机订阅的话题（mqtt/face/ID，其中 ID 指本机 ID，例如 1305433）里面发送，人脸识别一体机相应回复对应指令的操作结果都是往（mqtt/face/ID/Ack，其中 ID 指本机 ID，例如 1305433）主题推送。

All instructions sent by the cloud platform (server) to the all-in-one face recognition equipment are sent to the topic subscribed by the all-in-one face recognition equipment (mqtt/face/ID, where ID refers to the local ID, for example, 1305433), and the operation results of the all-in-one face recognition equipment responding to the corresponding instructions are all pushed to the topic (mqtt/face/ID/Ack, where ID refers to the local ID, for example, 1305433).

4.1 增加和修改人员名单接口

4.1 Add and modify personnel list interface

如果是涉及到 2 个人员以上的添加和修改，图片使用 URI 方式，建议使用 [4.6 批量增加人员 \(URI\)](#) 或 [4.10 批量添加或修改人员 \(URI\)](#) 接口，此接口不建议做批量添加人员使用，如果两条指令间隔时间过小有可能导致 15 心跳发送不及时以及 Ack 回复不及时；如果非得使用，此接口使用 base64 方式下发图片数据间隔调用时间需要在 1 秒以上；如果使用为 URI 方式下发图片，此接口间隔调用需在 2 秒以上，需调试而定。

If more than 2 people are involved in addition and modification, the picture uses URI, which is recommended [4.6 batch increase of personnel \(URI\)](#) or [4.10 Batch Add or Modify Persons \(URIs\) Interface](#), which is not recommended for batch adding personnel. If the interval between two instructions is too small, it may lead to 15 heartbeat Sending is not timely and Ack reply is not timely; If it has to be used, the calling time of this interface for issuing picture data in base64 mode should be more than 1 second. If pictures are distributed in URI mode, the interval call of this interface should be more than 2 seconds, depending on

debugging.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|-----------|----------------------|---|--|
| operator | | EditPerson | 单个人员添加或修改 Add or modify by a single person |
| messageId | String | | 消息 id,区分每一条消息 Message id to distinguish each message |
| info | | | 具体内容 Specific content |
| personId | String (optional) | | 一体机上生成的 ID, 区分每一个人 人员, 平台不需要传。 ID generated on the all-in-one machine distinguishes each person, and the platform does not need to transmit it. |
| customId | String | 长度 48 字符(包含结束符) Length 48 characters (including terminator) | 平台生成的 id,唯一标识不同人员, 建议使用身份证号, 传入 customId 设备已经存在视为修改, 否则为增加 The id generated by the platform uniquely identifies different people. It is recommended to use the ID number. If the incoming customId device already exists, it will be regarded as modification, otherwise it will be added |
| name | String | 长度 32 字符(包含结束符) Length 32 characters | 人员名字 Person name |

| | | | |
|----------------|-------------------|------------------------|--|
| | | (including terminator) | |
| personType | int | 0~1 | 0: 白名单 1: 黑名单 0: whitelist 1: blacklist |
| tempCardType | int | 0~3 | 名单类型 List type 0:永久名单 0: permanent list 1:临时名单 1(时间段有效) 1: provisional list 1 (valid time period) 2:临时名单 2(每天同一时间段有效) 2. Provisional List 2 (valid at the same time every day) 3 临时名单 3(次数有效) 3Provisional List 3 (valid times) |
| cardValidBegin | String (optional) | 2020-04-18 00:00:00 | 临时名单开始时间 Start time of provisional list 名单类型为临时名单 1 或 2 时必填 Required when the list type is temporary list 1 or 2 |
| cardValidEnd | String (optional) | 2020-12-20 23:59:59 | 临时名单结束时间 End time of provisional list 名单类型为临时名单 1 或 2 时必填 Required when the list type is temporary list 1 or 2 |
| EffectNumber | int (optional) | | 临时名单 3 的有效次数 Valid times of provisional list 3 名单类型为临时名单 3 时必填 Required when the list type is temporary list 3 |
| nation | int (optional) | 1~57 | 民族 ethnic group 1: 汉族 |

| | | | |
|-----------|----------------------|-----|---|
| | | | 1: Han nationality 详见附录 A A.1 民族 See Appendix a.1 Nationalities |
| gender | int (optional) | 0~1 | 性别 0: 男 1: 女 Gender 0: male 1: female |
| idCard | String (optional) | | 证件号码，长度 32 字符（包含结束符） Certificate number, 32 characters in length (including terminator) |
| birthday | String (optional) | | 生日 birthday 1992-06-15 |
| telnum1 | String (optional) | | 电话号码，长度 32 字符（包含结束符） Telephone number, 32 characters long (including terminator) |
| native | String (optional) | | 籍贯，长度 32 字符（包含结束符） Native place, 32 characters in length (including terminator) |
| address | String (optional) | | 住址，长度 72 字符（包含结束符） Address, 72 characters in length (including terminator) |
| notes | String (optional) | | 备注（特殊版本复用为多时间段策略组 ID 1~255） Remarks (special version is reused as multi-time period policy group ID 1~255) |
| cardType2 | int (optional) | 0~3 | 韦根卡号生成方式 Generation method of Wigan card number 0: 公用卡号 0: public card number 1: 自动生成 |

| | | | |
|----------------|-------------------|------------|--|
| | | | 1: automatically generated 2: 手动输入 2: Manual input 3: 不使用门禁 3. Do not use access control |
| WiegandType | int (optional) | 0~1 or 6~7 | 组成韦根卡号根据的韦根协议;当 cardType2=2 必填; Wigan protocol which constitutes the Wigan card number; When cardType2=2 is required; 0: 26 位 0: 26 bits 1: 34 位 1: 34 bits 6:26 位(8+16 facility code+userid(设备代码+卡号)分开填 写); 6:26 digits (8+16 facility code+userid (equipment code+card number) are filled separately); 7:34 位(8+24 facility code+userid(设备代码+卡号)分开填 写) 7:34 digits (8+24 facility code+userid (equipment code+card number) are filled separately) 默认:1 (34 位) Default: 1(34-bit) |
| WGFacilityCode | int (optional) | | 设备代码 (Facility code); 当 WiegandType= 6 or 7 时必填; 和 cardNum2 一起使用。当 WiegandType=0 or 1 时, 不必填 写。 Equipment code (Facility code); |

| | | | |
|------------|-------------------------------|-----|--|
| | | | Required when WiegandType=6 or 7; Used with cardNum2. There is no need to fill in when WiegandType=0 or 1. |
| cardNum2 | int (optional) | | 韦根门禁卡号 (userid) Wigan access card number (userid) cardType2 为 2 时必填 CardType2 is required when it is 2 |
| CardMode | unsigned int (optional) | 0~1 | 组成门禁卡号采用模式 Composition of access control card number adoption mode 0: 十进制构成卡号 0: Decimal card number 1: 十六进制构成卡号 1: Hexadecimal card number 默认 0: 十进制构成卡号 Default 0: Decimal card number |
| RFCardMode | unsigned int (optional) | 0~1 | 组成 RF (ID) 卡号采用模式, 针对内置刷卡机型 Composition RF(ID) card number adoption mode, aiming at built-in card swiping model 0: 十进制构成卡号 0: Decimal card number 1: 十六进制构成卡号 1: Hexadecimal card number 默认 1: 十六进制构成卡号 Default 1: Hexadecimal constitutes the card number |

| | | | |
|----------|----------------------|---|---|
| RFIDCard | String (optional) | <p>如果 RFCardMode=0，填入十进制字符串（“1369406761”）；如果 RFCardMode=1，填入十六进制字符串（“519F7D29”）</p> <p>If RFCardMode=0, fill in the decimal string ("1369406761"); If RFCardMode=1, fill in the hexadecimal string ("519F7D29")</p> | <p>ID 卡卡号，最大长度为 10 个字符长度,针对内置刷卡机型（含结束符），如果只是重新编辑名单，不改变卡号，则不需要传入 RFIDCard 关键字</p> <p>ID card number, the maximum length is 10 characters. For the built-in card swiping model (including terminator), if you only re-edit the list without changing the card number, you don't need to import RFIDCard keywords</p> |
| cardType | int (optional) | 0 | <p>证件类型：0 身份证</p> <p>Certificate type: 0 ID card</p> |
| pic | String | <p>增加名单时 pic 和 picURI 两选一，修改名单不替换图片时非必须</p> <p>When adding a list, pic and picURI should choose one from the other, and it is not necessary to modify the list without replacing pictures</p> | <p>人员图片（base64 编码，不超过 1M），和 picURI 2 选 1</p> <p>Personnel picture (base64 code, no more than 1M), and picURI 2 choose 1</p> |
| picURI | String | <p>增加名单时 picURI 和 pic 两选一，修改名单不替换图片时非必须</p> <p>When adding a list, choose one from picuri or pic. It is not necessary to modify the list without replacing</p> | <p>人员图片（URI 地址），和 pic 2 选 1</p> <p>Personnel picture (URI address), and PIC 2, select 1</p> |

| | | | |
|--|--|----------|--|
| | | pictures | |
|--|--|----------|--|

增加和修改人员名单使用同一接口，注意下发的人员名单对应的图片数据可通过键值"pic"下发图片的 base64 数据，也可通过键值"picURI"下发图片所在的云端 URI 地址，由人脸识别一体机来获取图片数据；两者 2 选 1。如果是修改人员名单，不涉及图片更换可不传入键值"pic"和"picURI"。

The same interface is used to add and modify the personnel list. Note that the image data corresponding to the distributed personnel list can be sent to the base64 data of the picture through the key value "pic", or the cloud URI address of the picture sent through the key value "picuri", and the image data can be obtained by the face recognition all-in-one machine; Choose one from two. If it is to modify the personnel list, The key values "pic" and "picuri" can not be passed in if picture replacement is not involved.

1、下发人员名单（图片使用 base64 数据）

1. Distribution personnel list (Base64 data is used for pictures)

```
{
  "messageId": "ID:localhost-637050272518414388:79346:87:5",
  "operator": "EditPerson",
  "info": {
    "personId": "",
    "customId": "063c81e0fce184c696cdb7e049230f5e",
    "name": "张三",
    "Name": "Zhang San",
    "nation": 1,
    "gender": 0,
    "birthday": "1995-06-12",
    "address": "",
    "idCard": "421381199504030001",
    "tempCardType": 0,
    "EffectNumber": 3,
    "cardValidBegin": "2019-10-10 10:00:00",
    "cardValidEnd": "2019-10-10 16:00:00",
    "telnum1": "18888888888",
```

```
        "native": "广东深圳",
    "Native": "Shenzhen, Guangdong Province",
        "cardType2": 0,
        "cardNum2": "",
        "notes": "",
        "personType": 0,
        "cardType": 0,
        "pic": "data:image/jpeg;base64.....（填入图片 base64 编码数据,不可超过 1M）"
    "pic": "data:image/jpeg;Base64..... (fill in picture Base64 encoding data, no more than 1m)"
    }
}
```

2、下发人员名单（图片使用 **URI**，一体机来获取图片）

2. List of personnel to be issued (images are obtained by URI and all-in-one machine)

```
{
    "messageId": "ID:localhost-637050272518414388:79346:87:5",
    "operator": "EditPerson",
    "info": {
        "personId": "",
        "customId": "063c81e0fce184c696cdb7e049230f5e",
        "name": "张三",
    "Name": "Zhang San",
        "nation": 1,
        "gender": 0,
        "birthday": "1995-06-12",
        "address": "",
        "idCard": "421381199504030001",
        "tempCardType": 0,
        "EffectNumber": 3,
        "cardValidBegin": "2019-10-10 10:00:00",
        "cardValidEnd": "2020-10-10 16:00:00",
        "telnum1": "18888888888",
        "native": "广东深圳",
    "Native": "Shenzhen, Guangdong Province",
        "cardType2": 0,
```

```
        "cardNum2":"","  
        "notes":"","  
        "personType":0,  
        "cardType":0,  
        "picURI":"https://btgoss.oss-cn-beijing.aliyuncs.com/image/xxx.jpg"  
    }  
}
```

4.2 查询人员名单信息

4.2 Query personnel list information

有两个查询接口，一个是查询详细信息，一个是查询设备中所有人员 customid。

There are two query interfaces, one is to query the detailed information, the other is to query the customid of all personnel in the device.

4.2.1 查询设备中所有人员 customId

4.2.1 query the customid of all personnel in the equipment

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|----------|------|---------------------------------|--|
| operator | | QueryPerson/ QueryPerson-Ack | QueryPerson:查询所有人员的 customId Queryperson: query the customid of all personnel QueryPerson-Ack:查询所有人员的 customId 返回 |

| | | | |
|----------------|--------|---|--|
| | | | Queryperson ack: returned by querying the customid of all personnel |
| messageId | String | | 消息 id,区分每一条消息 Message id to distinguish each message |
| info | | | 具体内容 Specific content |
| facesluiceId | String | | 一体机设备号 id,返回值 All in one machine device ID, return value |
| customId | String | 长度 48 字符(包含结束符) Length 48 characters (including terminator) | 平台生成的 id,唯一标识不同人员,建议使用身份证号 The ID generated by the platform uniquely identifies different personnel. It is recommended to use the ID card number |
| TotalPersonNum | int | | 一体机总名单数(包括 customId 为空的名单,如 web 端添加的名单),返回参数 Total list number of all-in-one machine (including the list with empty customid, such as the list added by the web side), and return the parameter |
| QueryPersonNum | int | | 一体机查询结果名单数(不包括 customId 为空的名单), 返回参数 Query result list number of all-in-one machine (excluding the list with empty customid), return parameters |

```
{
  "operator": "QueryPerson",
  "messageId": "ID:localhost-637046811507388956:23952:65:48",
  "info": {
  }
}
```

返回的确认消息:

Confirmation message returned:

```
{
  "messageId": "ID:localhost-637046811507388956:23952:65:48",
  "operator": "QueryPerson-Ack",
  "info": {
    "facesluiceId": "1379743",
    "TotalPersonNum": "99",
    "QueryPersonNum": "98",
    "customId": "063c81e0fce184c696cdb7e049230f5e23dfqwx230000,063c81e0fce184c696cdb7e049230f5e23dfqwx230001, /*此处省略 96 条数据*/",
    "Customid":
      "063c81e0fce184c696cdb7e049230f5e23dfqwx230000063c81e0fce184c696cdb7e049230f5e23dfqwx230001, /* 96 pieces of data are omitted here*/",
    "result": "ok"
  }
}
```

customId 中以， 隔开。可能有重复 id

Customid is separated by. There may be duplicate IDs

4.2.2 查询单个人员名单详细信息

4.2.2 query the detailed information of individual personnel list

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|--------------|--------|---|---|
| operator | | SearchPerson/ SearchPerson-Ack | SearchPerson:查询单个人员的 customId Searchperson: query the customid of a single person SearchPerson-Ack:查询单个人员的 customId 返回 Searchperson ack: returned by querying the customid of a single person |
| messageId | String | | 消息 id,区分每一条消息 Message id to distinguish each message |
| info | | | 具体内容 Specific content |
| facesluiceId | String | | 一体机设备号 id,返回值 All in one machine device ID, return value |
| customId | String | 长度 48 字符(包含结束 符) Length 48 characters (including terminator) | 平台生成的 id,唯一标识不同人员, 建议使用身份证号 The ID generated by the platform uniquely identifies different personnel. It is recommended to use |

| | | | the ID card number |
|---------|----------------------|--------------------------------|--|
| Picture | int (optional) | 0~1(默认 0) 0 ~ 1 (default 0) | 是否包含图片信息 Include picture information 0:名单不带图片信息 0: the list does not contain picture information 1:名单带图片信息 1. List with picture information |
| pic | String (optional) | | 图片信息的 Base64 编码（返回参数） Base64 encoding of picture information (return parameter) |

```
{
  "messageId": "ID:localhost-637046811507388956:23952:65:48",
  "operator": "SearchPerson",
  "info": {
    "customId": "063c81e0fce184c696cdb7e049230f5e",
    "Picture": "1"
  }
}
```

返回的确认消息:

Confirmation message returned:

```
{
  "messageId": "ID:localhost-637046811507388956:23952:65:48",
  "operator": "SearchPerson-Ack",
  "info": {
    "facesluiceId": "5d0848e581c3e6f1938a035f",
    "personId": "5",
    "customId": "063c81e0fce184c696cdb7e049230f5e",
    "name": "张三",
    "Name": "Zhang San",
    "gender": "0",
    "idCard": "421381199504030014",

```

```
"address": " ",
"createTime": "2019-09-30T09:13:48",
"telnum1": " ",
"personType": "0",
"cardNum2": "0",
"result": "ok"
},
"pic": "data:image/jpeg;base64,Qk225QAAAAA....."
}
```

4.2.3 多人名单查询

4.2.3 Enquiry of Multi-person List

多人名单查询接口支持两种方法进行查询，目前不支持带图片搜索返回。
返回的具体参数字段可以参考 [4.1 增加和修改人员名单接口](#)。

The multi-person list query interface supports two methods to query, but does not support searching and returning with pictures at present. The specific parameter field returned can refer to [4.1 Add and modify personnel list interface](#) .

搜索说明:

Search description:

1、根据时间查找:设置搜索的起始时间和搜索的结束时间，名字为空
1. search by time: set the start time and end time of search, and the name is blank

2、根据姓名查找或者姓名模糊查找：设置搜索的起始时间和搜索的结束时间为空，名字不为空

2. Search by name or fuzzy search by name: set the search start time and search end time to be blank, but the name is not blank

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|-----|------|--------|-------------|
|-----|------|--------|-------------|

| | | | |
|--------------|-------------------------------|---|--|
| operator | | SearchPersonList/ SearchPersonList-Ack | SearchPersonList:多人名单查询 SearchPersonList: multi-person list query SearchPersonList-Ack:多人名单查询返回 SearchPersonList-Ack: multi-person list query returns |
| messageId | String | | 消息 id,区分每一条消息 Message id to distinguish each message |
| info | | | 具体内容 Specific content |
| facesluiceId | String | | 人脸识别一体机 id, 传入具体键值则指定匹配机器执行, 不传入则订阅了相同话题的所有机器执行 Face recognition all-in-one id, pass in the specific key value to specify the matching machine to execute, and if not pass in, subscribe to all machines with the same topic to execute |
| personType | int (optional) | 0~2 | 名单类型 0:白名单 1:黑名单 2:所有 List Type 0: White List 1: Black List 2: All |
| BeginTime | String (optional) | 2018-08-13T00:00:00 | 搜索的起始时间点 Start time point of search |
| EndTime | String (optional) | 2020-08-19T23:59:59 | 搜索的结束时间点 End time point of search |
| gender | int (optional) | 0~2 | 性别 0:男 1:女 2:所有 Gender 0: male 1: female 2: all |
| cardNum2 | unsigned int (optional) | | 门禁卡号(预留) Access control card number (reserved) |
| name | String | | 姓名 |

| | (optional) | | (full) name |
|----------------|-------------------|---|--|
| BeginNO | int (optional) | 默认:0 Default: 0 | 查询列表的起始位置,即从第几个人开始 Query the starting position of the list, that is, from which person to start |
| RequestCount | int (optional) | 1~2000(默认:100) 1~2000 (default: 100) | 查询列表返回的消息总数, 最大返回 2000 条(目前不带图片), 设置超过 2000 条, 也只返回 2000 条。 The maximum number of messages returned by the query list is 2,000 (there is no picture at present), and only 2,000 messages are returned when the setting exceeds 2,000. |
| Picture | int | 0~1 | 是否包含图片信息(预留) Include picture information (reserved) |
| TotalPersonNum | int | | 匹配名单总数, 返回参数 Total number of matching lists, return parameter |
| PersonNum | int | | 单次返回匹配名单数, 返回参数 Return the number of matching lists at one time, and return parameters |
| List | | | 匹配名单 JSON 数组, 返回参数 Match list JSON array, return parameters |

e.g.1,根据时间段查找

E.g.1, search according to time period

```
{
  "messageId": "ID:localhost-637046811507388956:23952:65:48",
  "operator": "SearchPersonList",
  "info": {
```

```
    "facesluiceId": "1326491",
    "personType": 0,
    "BeginTime": "2018-08-13T00:00:00",
    "EndTime": "2020-08-19T23:59:59",
    "gender": 2,
    "BeginNO": 0,
    "RequestCount": 100
  }
}
```

e.g.1,根据时间段查找返回

E.g.1, search and return according to time period

```
{
  "messageId": "ID:localhost-637046811507388956:23952:65:48",
  "operator": "SearchPersonList-Ack",
  "info": {
    "facesluiceId": "1326491",
    "TotalPersonNum": 102,
    "PersonNum": 100,
    "List": [
      {
        "LibID": 1,
        "personType": 0,
        "name": "zstest",
        "gender": 0,
        "nation": 1,
        "cardType": 0,
        "idCard": "421381199504030001",
        "birthday": "1995-06-12",
        "telnum1": "18888888888",
        "native": "sz",
        "address": " ",
        "notes": " ",
        "cardType2": 0,
        "cardNum2": 1,
        "RFIDCard": "0",
        "tempCardType": 0,
        "customId": "063c81e0fce184c696cdb7e049230f5e",
        "cardValidBegin": "0000-00-00 00:00:00",
        "cardValidEnd": "0000-00-00 00:00:00"
      }
    ],
  },
}
```

/*此处省略名单数据*/

/* List data is omitted here */

```
{
/*此处省略名单数据*/
/* List data is omitted here */
}
}]
}
```

e.g.2,根据姓名查找或者姓名模糊查找

E.g.2, search by name or fuzzy name

```
{
"messageId":"ID:localhost-637046811507388956:23952:65:48",
"operator":"SearchPersonList",
  "info": {
    "facesluiceId":"1326491",
    "personType":0,
    "BeginTime":"2018-08-13T00:00:00",
    "EndTime":"2020-08-19T23:59:59",
    "name":"cff",
    "gender":2,
    "BeginNO":0,
    "RequestCount":100
  }
}
```

e.g.2,根据姓名查找或者姓名模糊查找返回

E.g.2, return according to name search or name fuzzy search

```
{
"messageId":"ID:localhost-637046811507388956:23952:65:48",
"operator": "SearchPersonList-Ack",
"info": {
"facesluiceId": "1326491",
"TotalPersonNum":1,
"PersonNum":1,
"List":[
{
```

```
"LibID":101,
"personType":0,
"name":"cff_2",
"gender":0,
"nation":1,
"cardType":0,
"idCard":" ",
"birthday":"2019-08-11",
"telnum1":" ",
"native":" ",
"address":" ",
"notes":" ",
"cardType2":0,
"cardNum2": 1,
"RFIDCard": "0",
"tempCardType": 0,
"customId": " ",
"cardValidBegin":"0000-00-00 00:00:00",
"cardValidEnd":"0000-00-00 00:00:00"
}
}}
}
```

4.3 删除单个人员名单

4.3 Delete the list of individual personnel

删除单个人员名单接口只适用删除单个人员名单，如果需要删除多个人员名单，推荐使用 4.9 批量删除人员名单。

The interface of deleting a single personnel list is only applicable to deleting a single personnel list. If multiple personnel lists need to be deleted, it is recommended to use 4.9 to delete personnel lists in batches.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|----------|------|-----------|--------------------|
| operator | | DelPerson | DelPerson:删除单个人员名单 |

| | | | |
|--------------|----------------------|---|---|
| | | | DelPerson: delete a single person list |
| messageId | String | | 消息 id,区分每一条消息 Message id to distinguish each message |
| info | | | 具体内容 Specific content |
| facesluiceId | String (optional) | | 一体机设备号 id,返回值 All in one machine device ID, return value |
| customId | String | 长度 48 字符(包含结束符) Length 48 characters (including terminator) | 平台生成的 id,唯一标识不同人员,建议使用身份证号 The ID generated by the platform uniquely identifies different personnel. It is recommended to use the ID card number |

```

{
  "operator": "DelPerson",
  "messageId": "ID:localhost-637046811507388956:23952:65:48",
  "info":
    {
      "customId": "063c81e0fce184c696cdb7e049230f5e"
    }
}

```

4.4 增加/修改/删除/人员返回的确认信息 (平台接收)

4.4 Add/modify/delete/confirmation information returned by personnel (received by the platform)

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|--------------|----------------------|---|--|
| operator | | EditPerson-Ack/ DelPerson-Ack | EditPerson-Ack:增加/修改人员返回 EditPerson-Ack: add/modify person return DelPerson-Ack:删除人员返回 DelPerson-Ack: deleting a person returns |
| messageId | String | | 消息 id,区分每一条消息 Message id to distinguish each message |
| info | | | 具体内容 Specific content |
| facesluiceId | String (optional) | | 一体机设备号 id,返回值 All in one machine device ID, return value |
| personId | String (optional) | | 一体机上自动生成的 ID, 返回值 ID automatically generated on the all-in-one machine, return value |
| customId | String (optional) | 长度 48 字符(包含结束 符) Length 48 characters (including terminator) | 平台生成的 id,唯一标识不同人员, 建议使用身份证号 The ID generated by the platform uniquely identifies different |

| | | | |
|--------|----------------------|-------------|---|
| | | | personnel. It is recommended to use the ID card number |
| result | String | “ok”/“fail” | 操作结果 Operation result |
| detail | String (optional) | | 当 result 为“fail”时，错误信息 Error message when result is "fail" |

```
{
  "messageId": "ID:hqvtsw013-45030-636591533573927379-1:3:1:1:1",
  "operator": "EditPerson-Ack",
  "info":
  {
    "facesluiceId": "0001",
    "personId": "0001",
    "customId": "063c81e0fce184c696cdb7e049230f5e",
    "result": "ok",
    "detail": ""
  }
}
```

4.5 删除所有人员名单

4.5 Delete all personnel lists

4.5.1 下发删除所有人员名单

4.5.1 Issue the list of all persons to be deleted

删除所有人员名单，会删除对应人脸识别一体机的所有人员名单，同时也会删除控制记录，不可恢复操作，谨慎使用。下发接口成功，人脸识别一体机会自动重启。

Deleting all the personnel lists will delete all the personnel lists of the corresponding face recognition integrated machine, and also delete the control records. Operation cannot be resumed, so use them carefully. If the interface is successfully distributed, the face recognition integration machine will automatically restart.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|--------------|----------------------|---|---|
| operator | | DeleteAllPerson/ DeleteAllPerson-Ack | DeleteAllPerson:删除所有人员名单 DeleteAllPerson: delete all person lists DeleteAllPerson-Ack:删除所有人员名单返回 DeleteAllPerson-Ack: delete all person lists and return |
| messageId | String | | 消息 id,区分每一条消息 Message id to distinguish each message |
| info | | | 具体内容 Specific content |
| facesluiceId | String (optional) | | 一体机设备号 id,返回值 All in one machine device ID, return value |
| deleteall | int | 0~1 | 是否删除所有人员名单 Delete all person lists 1: 确认删除 1: confirm deletion |
| result | String | “ok”/“fail” | 操作结果 Operation result |
| detail | String (optional) | | 当 result 为“fail”时, 错误信息 Error message when result is "fail" |

```
{  
  "messageId":"ID:localhost-637046811507388956:23952:65:48",  
  "operator":"DeleteAllPerson",  
  "info":  
    {  
      "deleteall":"1"  
    }  
}
```

```
}
```

4.5.2 删除所有人员名单确认消息回复

4.5.2 Reply to the confirmation message of deleting all personnel lists

```
{
  "messageId": "ID:localhost-637046811507388956:23952:65:48",
  "operator": "DeleteAllPerson-Ack",
  "info":
  {
    "facesluiceId": "1305433",
    "result": "ok"
  }
}
```

4.6 批量增加人员(URI)

4.6 Adding Personnel in Batch (URI)

批量增加人员接口是为了解决由于 MQTT 队列的工作机制，下发人员频繁调用 [4.1 增加和修改人员名单接口](#) 的接口容易造成的问题，同时提高下发人员速度。目前只支持批量下发人员接口图片采用 [URI](#) 方式。人脸识别一体机批量添加人员名单最大个数限制为 **1000** 个，平台每次调用接口需要等待上一次批量添加人员名单添加成功才可再次下发批量增加人员名单接口。调用接口完成后将会一次性返回失败和成功的个数以及信息，添加失败的将会附带信息错误码，错误码请参照附录 [4.6 批量增加人员\(URI\)错误码](#)。批量增加人员名单[过程中不可调用](#)其他有关增加/修改/删除名单指令；下发批量添加人员接口后，可以间隔时间调用 [4.8 查询批量添加/修改人员进度](#) 来判断接口完成与否。

The purpose of adding personnel interfaces in batches is to solve the problem easily caused by frequently calling 4.1 interface of adding and modifying personnel list interface due to the working mechanism of MQTT queue, and to improve the speed of distributing personnel. At present, only batch distribution of personnel interface pictures is supported by URI. The maximum number of people added to the face recognition integrated machine in batch is limited to 1,000. Every time the platform calls the interface, it needs to wait for the last batch adding personnel list to be successfully added before distributing the batch adding personnel list

interface again. After calling the interface, the number and information of failures and successes will be returned once. If you add failures, you will be accompanied by information error codes. Please refer to the appendix for error codes [4.6 Error Code of Adding Personnel in Batch \(URI\)](#) . Other instructions related to adding/modifying/deleting lists cannot be called during batch adding of personnel lists; After the batch add personnel interface is distributed, it can be called at intervals [4.8 query batch adding / modifying personnel progress](#) To judge whether the interface is complete or not.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|-----------|--------|----------------------------------|---|
| operator | | AddPersons/ AddPersons-Ack/ | AddPersons:批量增加人员 AddPersons: add persons in batch AddPersons-Ack:批量增加人员返回 AddPersons-Ack: return by adding persons in batch |
| messageId | String | | 消息 id,区分每一条消息 Message id to distinguish each message |
| DataBegin | String | 固定:BeginFlag Fixed: BeginFlag | 数据包开始标识, 检测数据包完整性 Packet start identification to detect packet integrity |
| DataEnd | String | 固定:EndFlag Fixed: endflag | 数据包结束标识, 检测数据包完整性 End of packet identification, detection of packet integrity |
| PersonNum | int | 1~1000 | 人员数目,必须和对应人员信息 json 个数一致 The number of personnel must be consistent with the number of JSON of corresponding personnel information |
| info | | | 具体内容 |

| | | | Specific content |
|----------------|-------------------|---|--|
| [] | | | 人员名单 json 集合 Personnel list JSON collection |
| customId | String | | 平台生成的 id,用于唯一标识不同人员,建议使用身份证号,长度 48 字符(包含结束符) The ID generated by the platform is used to uniquely identify different personnel. It is recommended to use the ID card number with a length of 48 characters (including the ending character) |
| name | String | 长度 32 字符(包含结束符) Length 32 characters (including terminator) | 人员名字 Person name |
| personType | int | 0~1 | 0: 白名单 1: 黑名单 0: whitelist 1: blacklist |
| tempCardType | int | 0~3 | 名单类型 List type 0:永久名单 0: permanent list 1:临时名单 1(时间段有效) 1: provisional list 1 (valid time period) 2:临时名单 2(每天同一时间段有效) 2. Provisional List 2 (valid at the same time every day) 3 临时名单 3(次数有效) 3Provisional List 3 (valid times) |
| cardValidBegin | String (optional) | 2020-04-18 00:00:00 | 临时名单开始时间 Start time of provisional list 名单类型为临时名单 1 或 2 时必填 Required when the list type is temporary list 1 or 2 |

| | | | |
|--------------|----------------------|---------------------|--|
| cardValidEnd | String (optional) | 2020-04-20 23:59:59 | 临时名单结束时间 End time of provisional list 名单类型为临时名单 1 或 2 时必填 Required when the list type is temporary list 1 or 2 |
| EffectNumber | int (optional) | | 临时名单 3 的有效次数 Valid times of provisional list 3 名单类型为临时名单 3 时必填 Required when the list type is temporary list 3 |
| nation | int (optional) | 1~57 | 民族 ethnic group 1: 汉族 1: Han nationality 详见附录 A A.1 民族 See Appendix a.1 Nationalities |
| gender | int (optional) | 0~1 | 性别 0: 男 1: 女 Gender 0: male 1: female |
| idCard | String (optional) | | 证件号码, 长度 32 字符 (包含结束符) Certificate number, 32 characters in length (including terminator) |
| telnum1 | String (optional) | | 电话号码, 长度 32 字符 (包含结束符) Telephone number, 32 characters long (including terminator) |
| native | String (optional) | | 籍贯, 长度 32 字符 (包含结束符) Native place, 32 characters in length (including terminator) |
| address | String (optional) | | 住址, 长度 72 字符 (包含结束符) Address, 72 characters in length (including terminator) |
| | | | |
| birthday | String (optional) | | 生日 birthday |

| | | | |
|-------------------|----------------------|-----|--|
| | | | 1992-06-15 |
| notes | String (optional) | | 备注（特殊版本复用为多时间段策略组 ID 1~255） Remarks (special version is reused as multi-time period policy group ID 1~255) |
| isCheckSimilarity | int (optional) | 0~1 | 检测添加的图片和底库的人员相似度，大于设置的黑白名单验证门限值将添加失败，用于排除相同人员图片被添加多次。 Detect the personnel similarity between the added image and the base database. If it is greater than the set black-and-white list verification threshold value, it will fail to be added. It is used to exclude the same personnel picture from being added multiple times. 0:不检测图片相似度(默认:0) 0: do not detect image similarity (default: 0) 1: 检测图片相似度 1: Detect image similarity |
| cardType2 | int (optional) | 0~3 | 韦根卡号生成方式 Generation method of Wigan card number 0: 公用卡号 0: public card number 1: 自动生成 1: automatically generated 2: 手动输入 2: Manual input 3: 不使用门禁 3. Do not use access control |

| | | | |
|----------------|-------------------|------------|---|
| WiegandType | int (optional) | 0~1 or 6~7 | <p>组成韦根卡号根据的韦根协议;当 cardType2=2 必填;</p> <p>Wigan protocol which constitutes the Wigan card number; When cardType2=2 is required;</p> <p>0: 26 位 0: 26 bits 1: 34 位 1: 34 bits</p> <p>6:26 位(8+16 facility code+userid(设 备代码+卡号)分开填写); 6:26 digits (8+16 facility code+userid (equipment code+card number) are filled separately);</p> <p>7:34 位(8+24 facility code+userid(设备 代码+卡号)分开填写) 7:34 digits (8+24 facility code+userid (equipment code+card number) are filled separately)</p> <p>默认:1(34 位) Default: 1(34-bit)</p> |
| WGFacilityCode | int (optional) | | <p>设备代码(Facility code);当 WiegandType= 6 or 7 时必填;和 cardNum2 一起使用。当 WiegandType=0 or 1 时, 不必填写。 Equipment code (Facility code); Required when WiegandType= 6 or 7; Used with cardNum2. There is no need to fill in when WiegandType=0 or 1.</p> |
| cardNum2 | int (optional) | | <p>韦根门禁卡号(userid) Wigan access card number (userid)</p> |

| | | | |
|------------|-------------------------|--|---|
| | | | <p>cardType2 为 2 时必填</p> <p>CardType2 is required when it is 2</p> |
| CardMode | unsigned int (optional) | 0~1 | <p>组成韦根门禁卡号采用模式</p> <p>The mode of composition of Weigan access control card number</p> <p>0: 十进制构成卡号</p> <p>0: Decimal card number</p> <p>1: 十六进制构成卡号</p> <p>1: Hexadecimal card number</p> <p>默认 0: 十进制构成卡号</p> <p>Default 0: Decimal card number</p> |
| RFCardMode | unsigned int (optional) | 0~1 | <p>组成 RF (ID) 卡号采用模式, 针对内置刷卡机型</p> <p>Composition RF (ID) card number adoption mode, aiming at built-in card swiping model</p> <p>0: 十进制构成卡号</p> <p>0: Decimal card number</p> <p>1: 十六进制构成卡号</p> <p>1: Hexadecimal card number</p> <p>默认 1: 十六进制构成卡号</p> <p>Default 1: Hexadecimal constitutes the card number</p> |
| RFIDCard | int (optional) | <p>如果 RFCardMode=0, 填入十进制字符串 ("1369406761"); 如果 RFCardMode=1, 填入十六进制字符串 ("519F7D29")</p> <p>If RFCardMode=0, fill in the decimal string ("1369406761"); If RFCardMode=1, fill in</p> | <p>ID 卡卡号, 最大长度为 10 个字符长度, 针对内置刷卡机型 (含结束符)</p> <p>ID card number, the maximum length is 10 characters, for the built-in card reader (including the end character)</p> |

| | | | |
|--------------|-------------------|--|--|
| | | the hexadecimal string ("519F7D29") | |
| cardType | int (optional) | | 证件类型: 0 身份证 Certificate type: 0 ID card |
| picURI | String | https://btgongpluss.oss-cn-beijing.aliyuncs.com/bigheadphoto/xxx.jpg | 人员名单图片 URI 地址 Personnel list image URI address |
| | | | |
| | | | |
| facesluiceld | String | | 人脸识别一体机 id,返回参数 Face recognition machine ID, return parameters |
| AddErrNum | int | 0~1000 | 批量增加人员失败的个数,返回参数 Batch increase the number of failed personnel, return the parameter |
| AddErrInfo | String | | 批量增加人员失败信息 (customId+errcode),返回参数, errcode 见附录 Add personnel failure information (customid + errCode) in batch, and return the parameter. See Appendix for errCode |
| AddSucNum | int | 0~1000 | 批量增加人员成功的个数,返回参数 Batch increase the number of successful personnel, return the parameter |
| AddSucInfo | String | | 批量增加人员失败信息(customId),返回参数 Batch add personnel failure information (customid) and return parameters |
| | | | |

4.6.1 批量增加人员

4.6.1 batch increase of personnel

e.g.1,批量添加名单 1000 条

e. G.1, add 1000 lists in batch

```
{
  "messageId": "AddPersonslist2020-04-13T19:07:00_00001",
  "DataBegin": "BeginFlag",
  "operator": "AddPersons",
  "PersonNum": "1000",
  "info":
  [
    {
      "customId": "063c81e0fce184c696cdb7e049230f5e23dfqwx230000",
      "name": "test000",
      "nation": 1,
      "gender": 0,
      "birthday": "1992-06-13",
      "address": "广东省深圳市宝安区",
      "Address": "Bao'an District, Shenzhen City, Guangdong Province",
      "idCard": "421381199504030000",
      "tempCardType": 0,
      "EffectNumber": 3,
      "cardValidBegin": "2020-04-13 00:00:00",
      "cardValidEnd": "2020-12-13 21:22:23",
      "telnum1": "13690880000",
      "native": "广东深圳",
      "Native": "Shenzhen, Guangdong Province",
      "cardType2": 0,
      "notes": "",
      "personType": 0,
      "cardType": 0,
      "picURI": "https://btgongpluss.oss-cn-beijing.aliyuncs.com/bigheadphoto/xxx.jpg"
    }
  ],
  ,
```

/*此处省略 998 个人员名单 json 数据*/

/*The JSON data of 998 personnel lists is omitted here*/

```
{

  "customId": "063c81e0fce184c696cdb7e049230f5e23dfqwx230999",
  "name": "test999",
```

```

    "nation":1,
    "gender":0,
    "birthday":"1992-06-13",
    "address":"广东省深圳市宝安区",
    "Address": "Bao'an District, Shenzhen City, Guangdong Province",
    "idCard":"421381199504030999",
    "tempCardType":0,
    "EffectNumber":3,
    "cardValidBegin":"2020-04-13 00:00:00",
    "cardValidEnd":"2020-12-13 21:22:23",
    "telnum1":"13690880999",
    "native":"广东深圳",
    "Native": Shenzhen, Guangdong Province,
    "cardType2":2,
    "notes": "",
    "personType":0,
    "cardType":0,
    "WiegandType":1,
    "cardNum2":2765823488,
    "CardMode":0,
    "picURI":"https://btgongpluss.oss-cn-beijing.aliyuncs.com/bigheadphoto/xxx.jpg"
  }
  "DataEnd":"EndFlag"
}

```

4.6.2 批量增加人员返回

4.6.2 batch increase of personnel return

e.g.1,批量添加名单 1000 条返回

e. G.1, batch add a list of 1000 to return

```

{
  "messageId":"AddPersonslist2020-04-13T19:07:00_00001",
  "operator": "AddPersons-Ack",
  "info":
  {
    "facesluiceId":"1306612",
    "AddErrNum":"1",

```

```
"AddSucNum": "999",
"AddErrInfo":
[
  {"customId": "063c81e0fce184c696cdb7e049230f5e23dfqwx230898", "errcode": "474"}
],
"AddSucInfo":
[
  {"customId": "063c81e0fce184c696cdb7e049230f5e23dfqwx230000"},
  {"customId": "063c81e0fce184c696cdb7e049230f5e23dfqwx230000"},

  /*此处省略 996 条返回数据*/
  /*996 returned data are omitted here*/
  {"customId": "063c81e0fce184c696cdb7e049230f5e23dfqwx230999"}
],
"result": "ok"
}
}
```

4.7 批量修改人员(URI)

4.7 Batch Modifier (URI)

批量修改人员接口是为了解决由于 MQTT 队列的工作机制，下发人员频繁调用 4.1 增加和修改人员名单接口的接口容易造成的问题，同时提高修改人员速度。目前只支持批量修改人员接口图片采用 URI 方式。人脸识别一体机批量修改人员名单最大个数限制为 1000 个，平台每次调用接口需要等待上一次批量修改人员名单成功才可再次下发批量修改人员名单接口。调用接口完成后将会一次性返回失败和成功的个数以及信息，修改失败的将会附带信息错误码，错误码请参照附录 4.7 批量修改人员(URI)错误码。批量修改人员名单过程中不可调用其他有关增加/修改/删除名单指令。若修改人员名单，不需要修改名单图片，则不需要传入 picURI 关键字及对应的 URI，若不需要更改韦根卡号，则不需要传入 cardType2、WiegandType 等相应关键字段和对应的值；若是内置刷卡版本，不需要更改 ID 卡号，则不需要传入 RFIDCard(内置刷卡机型)关键字及对应值，否则，修改人员名单接口将直接覆盖对应韦根卡号和 RFIDCard(内置刷卡机型)，不能保证所有名单内韦根卡号或 RFIDCard(内置刷卡机型)的唯一性。

The purpose of modifying the personnel interface in batches is to solve the problem easily caused by frequently calling 4.1 interface of adding and modifying personnel list interface due to the working mechanism of MQTT queue, and to improve the speed of modifying personnel. At present, only batch modification of

personnel interface pictures is supported in URI mode. The maximum number of batch modification personnel list of the face recognition integrated machine is limited to 1,000, Every time the platform calls the interface, it needs to wait for the last batch modification of personnel list to succeed before distributing the batch modification of personnel list interface again. After calling the interface, the number and information of failure and success will be returned once. If the modification fails, the information error code will be attached. Please refer to the appendix for the error code [4.7 Error code of batch modifier \(URI\)](#). Other instructions related to adding/modifying/deleting lists cannot be called during batch modification of personnel lists. If the personnel list is modified without modifying the list picture, picURI keyword and corresponding URI need not be passed in; if Wigan card number does not need to be changed, corresponding key fields and corresponding values such as cardType2 and WiegandType need not be passed in; In case of built-in credit card version, ID card number does not need to be changed. There is no need to import RFIDCard (built-in card swiping model) keywords and corresponding values, otherwise, modifying the personnel list interface will directly cover the corresponding Wigan card number and RFIDCard (built-in card swiping model), which cannot guarantee the uniqueness of Wigan card number or RFIDCard (built-in card swiping model) in all lists.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|-----------|--------|----------------------------------|---|
| operator | | EditPersons/ EditPersons-Ack/ | EditPersons:批量修改人员 EditPersons: modify persons in batch EditPersons-Ack:批量修改人员返回 EditPersons-Ack: batch modifier returns |
| messageId | String | | 消息 id,区分每一条消息 Message id to distinguish each message |
| DataBegin | String | 固定:BeginFlag | 数据包开始标识, 检测数据包完整性 |

| | | | |
|--------------|--------|---|--|
| | | Fixed: BeginFlag | Packet start identification to detect packet integrity |
| DataEnd | String | 固定:EndFlag Fixed: endflag | 数据包结束标识, 检测数据包完整性 End of packet identification, detection of packet integrity |
| PersonNum | int | 1~1000 | 人员数目,必须和对应人员信息 json 个数一致 The number of personnel must be consistent with the number of JSON of corresponding personnel information |
| info | | | 具体内容 Specific content |
| [] | | | 人员名单 json 集合 Personnel list JSON collection |
| customId | String | | 平台生成的 id,用于唯一标识不同人员, 建议使用身份证号, 长度 48 字符 (包 含结束符) The ID generated by the platform is used to uniquely identify different personnel. It is recommended to use the ID card number with a length of 48 characters (including the ending character) |
| name | String | 长度 32 字符(包含结束 符) Length 32 characters (including terminator) | 人员名字 Person name |
| personType | int | 0~1 | 0: 白名单 1: 黑名单 0: whitelist 1: blacklist |
| tempCardType | int | 0~3 | 名单类型 List type 0:永久名单 0: permanent list 1:临时名单 1(时间段有效) |

| | | | |
|----------------|----------------------|---------------------|--|
| | | | 1: provisional list 1 (valid time period) 2:临时名单 2(每天同一时间段有效) 2. Provisional List 2 (valid at the same time every day) 3 临时名单 3(次数有效) 3Provisional List 3 (valid times) |
| cardValidBegin | String (optional) | 2020-04-18 00:00:00 | 临时名单开始时间 Start time of provisional list 名单类型为临时名单 1 或 2 时必填 Required when the list type is temporary list 1 or 2 |
| cardValidEnd | String (optional) | 2020-04-20 23:59:59 | 临时名单结束时间 End time of provisional list 名单类型为临时名单 1 或 2 时必填 Required when the list type is temporary list 1 or 2 |
| EffectNumber | int (optional) | | 临时名单 3 的有效次数 Valid times of provisional list 3 名单类型为临时名单 3 时必填 Required when the list type is temporary list 3 |
| nation | int (optional) | 1~57 | 民族 ethnic group 1: 汉族 1: Han nationality 详见附录 A A.1 民族 See Appendix a.1 Nationalities |
| gender | int (optional) | 0~1 | 性别 0: 男 1: 女 Gender 0: male 1: female |
| idCard | String (optional) | | 证件号码，长度 32 字符（包含结束符） Certificate number, 32 characters in length (including terminator) |
| telnum1 | String | | 电话号码，长度 32 字符（包含结束符） |

| | | | |
|-------------------|----------------------|-----|---|
| | (optional) | | Telephone number, 32 characters long (including terminator) |
| native | String (optional) | | 籍贯，长度 32 字符（包含结束符） Native place, 32 characters in length (including terminator) |
| address | String (optional) | | 住址，长度 72 字符（包含结束符） Address, 72 characters in length (including terminator) |
| birthday | String (optional) | | 生日 birthday 1992-06-15 |
| notes | String (optional) | | 备注（特殊版本复用为多时间段策略组 ID 1~255） Remarks (special version is reused as multi-time period policy group ID 1~255) |
| isCheckSimilarity | int (optional) | 0~1 | 检测修改的图片和底库的人员相似度， 大于设置的黑白名单验证门限值将不 删除对应控制记录的注册图像，小于将 删除之前的控制记录注册图像 Detect the personnel similarity between the modified picture and the base library. If it is greater than the set black-and-white list verification threshold, the registered image of the corresponding control record will not be deleted, but less than the registered image of the previous control record will be deleted 0:不检测图片相似度(默认:0) 0: do not detect image similarity (default: 0) |

| | | | |
|-------------|-------------------|------------|--|
| | | | 1: 检测图片相似度 1: Detect image similarity |
| cardType2 | int (optional) | 0~3 | 韦根卡号生成方式, 不更改则不传 Generation method of Wigan card number, which will not be transferred if it is not changed 0: 公用卡号 0: public card number 1: 自动生成 1: automatically generated 2: 手动输入 2: Manual input 3: 不使用门禁 3. Do not use access control |
| WiegandType | int (optional) | 0~1 or 6~7 | 组成韦根卡号根据的韦根协议;当 cardType2=2 必填; Wigan protocol which constitutes the Wigan card number; When cardType2=2 is required; 0: 26 位 0: 26 bits 1: 34 位 1: 34 bits 6:26 位(8+16 facility code+userid(设备代码+卡号)分开填写); 6:26 digits (8+16 facility code+userid (equipment code+card number) are filled separately); 7:34 位(8+24 facility code+userid(设备代码+卡号)分开填写) 7:34 digits (8+24 facility code+userid (equipment code+card number) are filled separately) |

| | | | |
|----------------|----------------------------|-----|--|
| | | | 默认:1(34 位) Default: 1(34-bit) |
| WGFacilityCode | int (optional) | | 设备代码(Facility code);当 WiegandType= 6 or 7 时必填;和 cardNum2 一起使用。当 WiegandType=0 or 1 时, 不必填写。 Equipment code (Facility code); Required when WiegandType= 6 or 7; Used with cardNum2. There is no need to fill in when WiegandType=0 or 1. |
| cardNum2 | int (optional) | | 韦根门禁卡号(userid) Wigan access card number (userid) cardType2 为 2 时必填 CardType2 is required when it is 2 |
| CardMode | unsigned int (optional) | 0~1 | 组成韦根门禁卡号采用模式 The mode of composition of Weigan access control card number 0: 十进制构成卡号 0: Decimal card number 1: 十六进制构成卡号 1: Hexadecimal card number 默认 0: 十进制构成卡号 Default 0: Decimal card number |
| RFCardMode | unsigned int (optional) | 0~1 | 组成 RF (ID) 卡号采用模式, 针对内置刷卡机型 Composition RF(ID) card number adoption mode, aiming at built-in card swiping model 0: 十进制构成卡号 0: Decimal card number |

| | | | |
|--------------|-------------------|---|---|
| | | | 1: 十六进制构成卡号 1: Hexadecimal card number 默认 1: 十六进制构成卡号 Default 1: Hexadecimal constitutes the card number |
| RFIDCard | int (optional) | 如果 RFCardMode=0, 填入十进制字符串 ("1369406761"); 如果 RFCardMode=1, 填入十六进制字符串 ("519F7D29") If RFCardMode=0, fill in the decimal string ("1369406761"); If RFCardMode=1, fill in the hexadecimal string ("519F7D29") | ID 卡卡号, 最大长度为 10 个字符长度, 针对内置刷卡机型 (含结束符), 不更改则不传 ID card number, the maximum length is 10 characters. For the built-in card swiping model (including terminator), it will not be transmitted if it is not changed |
| cardType | int (optional) | | 证件类型: 0 身份证 Certificate type: 0 ID card |
| picURI | String | https://btgongpluss.oss-cn-beijing.aliyuncs.com/bigheadphoto/xxx.jpg | 人员名单图片 URI 地址, 不更改则不传 URI address of personnel list picture, which will not be transmitted if it is not changed |
| | | | |
| | | | |
| facesluiceld | String | | 人脸识别一体机 id, 返回参数 Face recognition machine ID, return parameters |
| AddErrNum | int | 0~1000 | 批量修改人员失败的个数, 返回参数 Number of people failed to modify in batch, return parameter |
| AddErrInfo | String | | 批量修改人员失败信息 (customId+errcode), 返回参数, errcode |

| | | | |
|------------|--------|--------|---|
| | | | <p>见附录</p> <p>Batch modify personnel failure information (customId+errcode) and return parameters. see appendix for errcode</p> |
| AddSucNum | int | 0~1000 | <p>批量修改人员成功的个数,返回参数</p> <p>Batch modify the number of successful personnel, and return the parameter</p> |
| AddSucInfo | String | | <p>批量修改人员失败信息(customId),返回参数</p> <p>Batch modify personnel failure information (customId) and return parameters</p> |
| | | | |

4.7.1 批量修改人员

4.7.1 Batch modification personnel

e.g.1,批量修改名单 1000 条

E.g.1, batch modification of 1000 lists

```
{
  "messageId": "EditPersonslist2020-05-10T19:07:00_00002",
  "DataBegin": "BeginFlag",
  "operator": "EditPersons",
  "PersonNum": "1000",
  "info":
  [
    {
      "customId": "063c81e0fce184c696cdb7e049230f5e23dfqwx230000",
      "name": "modify000",
      "telnum1": "13700880000"
    }
  ],
  /*此处省略 998 个人员名单 json 数据*/
  /*The JSON data of 998 personnel lists is omitted here*/
}
```

```

{

    "customId":"063c81e0fce184c696cdb7e049230f5e23dfqwx230999",
    "name":"modify999",
    "picURI":"https://btgongpluss.oss-cn-beijing.aliyuncs.com/bigheadphoto/xxx111.jpg"
}

[
    "DataEnd":"EndFlag"
]

```

4.7.2 批量修改人员返回

4.7.2 Return of batch modification personnel

e.g.1,批量添加名单 1000 条返回

e. G.1, batch add a list of 1000 to return

```

{
    "messageId":"EditPersonslist2020-05-10T19:07:00_00002",
    "operator": "EditPersons-Ack",
    "info":
    [
        {
            "facesluiceId":"1306612",
            "AddErrNum":"1",
            "AddSucNum":"999",
            "AddErrInfo":
            [
                {"customId":"063c81e0fce184c696cdb7e049230f5e23dfqwx230898","errcode":"461"}
            ],
            "AddSucInfo":
            [
                {"customId":"063c81e0fce184c696cdb7e049230f5e23dfqwx230000"},
                {"customId":"063c81e0fce184c696cdb7e049230f5e23dfqwx230000"},
                /*此处省略 996 条返回数据*/
                /*996 returned data are omitted here*/
                {"customId":"063c81e0fce184c696cdb7e049230f5e23dfqwx230999"}
            ],
        }
    ]
}

```

```
"result": "ok"
}
}
```

4.8 查询批量添加/修改人员进度

4.8 Query the progress of batch adding/modifying personnel

本接口主要是为了解决平台调用了 [4.6 批量增加人员名单\(URL\)](#)和 [4.7 批量修改人员名单\(URL\)](#)或 [4.10 批量添加或修改人员\(URL\)](#)接口后，在一定时间间隔内轮询调用此接口查询上次操作的完成进度。如果在批量下发过程中，人脸识别一体机和服务器重连或者人脸识别一体机突然关机，肯定接收不到最终的批量处理结果返回，平台在这种情况下需要对上一次批量下发/修改再次处理。

This interface is mainly to solve the platform call [4.6 Adding List of Persons in Batch \(URL\)](#) and [4.7 Batch modification of personnel list \(URL\)](#) or [4.10 Batch Add or Modify Persons \(URLs\)](#) Interface, polling calls this interface within a certain time interval to inquire about the completion progress of the last operation. In the process of batch distribution, if the face recognition integrated machine reconnects with the server or the face recognition integrated machine suddenly shuts down, the final batch processing result will definitely not be received. In this case, the platform needs to process the last batch distribution/modification again.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|----------|------|--------------------------------------|--|
| operator | | QueryProgress/ QueryProgress-Ack/ | QueryProgress:查询批量添加/修改人员进度 QueryProgress: query the progress of batch adding/modifying personnel QueryProgress-Ack:查询批量添加/修改人员进度返回 QueryProgress-Ack: return from querying the progress of batch |

| | | | |
|--------------|----------------------|-----|---|
| | | | adding/modifying personnel |
| messageId | String | | 消息 id,区分每一条消息 Message id to distinguish each message |
| facesluiceId | String | | 一体机 ID, 区分每一台机器 All-in-one machine ID to distinguish each machine |
| QueryType | String (optional) | | 查询类型, 返回参数 Query type, return parameter AddPersons: 设备处于批量添加名单状态 AddPersons: the equipment is in the status of adding lists in batch EditPersons: 设备处于批量修改名单状态 EditPersons: The equipment is in batch modification list status EditPersonsNew: 设备处于批量添加或修改名单状态 EditPersonsNew: The equipment is in the status of adding or modifying lists in batch None: 设备处于无批量添加/修改名单状态 None: the equipment is in the state of no batch add/modify list |
| Status | Int (optional) | 0~2 | 查询状态, 返回参数 Query status and return parameters 0: 空闲状态 0: idle state 1: AddPersons 忙状态 1:AddPersons busy status 2: EditPersons 忙状态 2:EditPersons busy status 3: EditPersonsNew 忙状态 |

| | | | |
|--|--|--|------------------------------|
| | | | 3:EditPersonsNew busy status |
|--|--|--|------------------------------|

4.8.1 查询批量添加/修改人员进度

4.8.1 Query the progress of batch adding/modifying personnel

e.g.1,查询批量添加/修改人员进度

E.g.1, inquire about the progress of batch adding/modifying personnel

```
{
  "messageId":"ID:localhost-637050900934386959:42763:53:1",
  "operator":"QueryProgress",
  "info":
  {
  }
}
```

4.8.2 查询批量添加/修改人员进度返回

4.8.2 Query the progress return of batch adding/modifying personnel

e.g.1,查询批量添加/修改人员进度返回

E.g.1, inquire about batch adding/modifying personnel progress return

```
{
  "messageId":"ID:localhost-637050900934386959:42763:53:1",
  "operator": "QueryProgress-Ack",
  "info": {
    "facesluiceId":"1306612",
    "QueryType":"AddPersons",
    "Status":"1",
    "result":"ok"
  }
}
```

4.9 批量删除人员名单

4.9 Batch deletion of personnel list

批量删除人员名单最大支持一次删除 200 个人员名单, 在最大数量删除人员名单的时候, 需要等待这条指令返回(一般需要 7 秒完成), 才能再次下发其他指令或再次下发批量删除人员名单, 此接口删除名单后, 对应控制记录的注册图像会删除, 不删除控制记录; 和 4.5 删除所有人员名单相比较, 此接口不删除控制记录, 只删除名单。传入存在的 customId 会执行成功, 传入不存在的 customId 会在失败中提示, 删除不存在的 customId 不影响平台使用, 如果平台不在意, 可不处理删除不存在的 customId 的失败返回信息

Mass deletion of personnel lists supports deleting up to 200 personnel lists at a time. When deleting the maximum number of personnel lists, you need to wait for this instruction to return (it usually takes 7 seconds to complete) before issuing other instructions or issuing the mass deletion personnel list again. After deleting the list through this interface, the registration image of the corresponding control record will be deleted, but the control record will not be deleted. And 4.5 Compared with deleting all personnel lists, this interface does not delete control records, but only lists. Passing in an existing customId will be executed successfully, while passing in a nonexistent customId will prompt in failure. deleting a nonexistent customId will not affect the use of the platform. if the platform doesn't care, the failure return message of deleting a nonexistent customId may not be processed.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|-----------|--------|--------------------------------------|--|
| operator | | DeletePersons/ DeletePersons-Ack/ | DeletePersons:批量删除人员 DeletePersons: delete persons in batch DeletePersons-Ack:批量删除人员返回 DeletePersons-Ack: mass deletion of persons returns |
| messageId | String | | 消息 id,区分每一条消息 |

| | | | |
|-------------|--------|----------------------------------|---|
| | | | Message id to distinguish each message |
| DataBegin | String | 固定:BeginFlag Fixed: BeginFlag | 数据包开始标识, 检测数据包完整性 Packet start identification to detect packet integrity |
| DataEnd | String | 固定:EndFlag Fixed: endflag | 数据包结束标识, 检测数据包完整性 End of packet identification, detection of packet integrity |
| PersonNum | int | 1~200 | 删除人员数目,必须和对应人员信息 customId 总个数一致 The number of deleted personnel must be consistent with the total number of corresponding personnel information customId |
| info | | | 具体内容 Specific content |
| customId | String | | 平台生成的 id,用于唯一标识不同人员, 建议使用身份证号, 单个长度 48 字符 (包含结束符) The id generated by the platform is used to uniquely identify different people. It is recommended to use the ID number, with a single length of 48 characters (including the terminator) |
| | | | |
| facesluicId | String | | 人脸识别一体机 id,返回参数 Face recognition machine ID, return parameters |
| DelErrNum | int | 0~200 | 批量删除人员失败的个数,返回参数 Number of people failed to delete in batch; return parameter |
| DelErrInfo | String | | 批量删除人员失败信息(customId),返回 参数 Mass deletion of personnel failure |

| | | | |
|------------|--------|-------|---|
| | | | information (customId), return parameters |
| DelSucNum | int | 0~200 | 批量删除人员成功的个数,返回参数 Number of people successfully deleted in batch, return parameter |
| DelSucInfo | String | | 批量删除人员失败信息(customId),返回参数 Mass deletion of personnel failure information (customId), return parameters |

4.9.1 批量删除人员

4.9.1 Batch deletion of personnel

e.g.1,批量删除名单 200 条

E.g.1, delete 200 lists in batches

```
{
  "messageId": "2020-05-14 11:07:00 DeletePersons",
  "DataBegin": "BeginFlag",
  "operator": "DeletePersons",
  "PersonNum": "200",
  "info": {
    "customId":
      [
        "063c81e0fce184c696cdb7e049230f5e23dfqwx230000",
        /*此处省略 198 条数据*/,
        /* 198 pieces of data are omitted here */,
        "063c81e0fce184c696cdb7e049230f5e23dfqwx230199"
      ]
  },
  "DataEnd": "EndFlag"
}
```

4.9.2 批量删除人员返回

4.9.2 Return of batch deleted personnel

e.g.1,批量删除名单 200 条返回

E.g.1, batch delete 200 lists and return them

```
{
  "messageId":"2020-05-14 11:07:00 DeletePersons",
  "operator": "DeletePersons-Ack",
  "info": {
    "facesluiceId":"1306612",
    "DelErrNum":"98",
    "DelSucNum":"102",
    "DelErrInfo":[{"customId":"063c81e0fce184c696cdb7e049230f5e23dfqwx230000"}],
    /*此处省略 96 条数据*/,
    /* 96 pieces of data are omitted here */,
    [{"customId":"063c81e0fce184c696cdb7e049230f5e23dfqwx230098"}],
    "DelSucInfo":[{"customId":"063c81e0fce184c696cdb7e049230f5e23dfqwx230099"}],
    /*此处省略 100 条数据*/,
    /* 100 pieces of data are omitted here */,
    [{"customId":"063c81e0fce184c696cdb7e049230f5e23dfqwx230199"}],
    "result":"ok"
  }
}
```

4.10 批量添加或修改人员(URI)

4.10 Batch Add or Modify Persons (URIs)

批量添加或修改人员(URI)接口主要是 [4.6 批量增加人员\(URI\)](#)和 [4.7 批量修改人员\(URI\)](#)两个接口的结合，如果平台传入的“customId”的人员名单在人脸识别一体机中已经存在，对应的操作就是修改这个人员名单信息，如果平台传入的“customId”在对应的人脸识别一体机中不存在，则对应操作就是增加这个人员名单。调用此接口，可以考虑不再调用 [4.6 批量增加人员\(URI\)](#)和 [4.7 批量修改人员\(URI\)](#)两个接口。目前此接口只支持图片采用 [URI](#) 方式，人脸识别一体机批量添加或修改人员名单最大个数限制为 **1000** 个，平台每次调用接口需要等待上一次批量修改人员名单成功才可再次下发批量修改人员名单接口。调用接口完成后将会一次性返回失败和成功的个数以及信息，修改失败的将会附带信息错误码，错误码请参照附录 [4.10 批量添加或修改人员\(URI\)错误码](#)。同样可以调用 [4.8 查询批量添加/修改人员进度](#)来查询接口是否完成。

Adding or modifying a person (URI) interface in batches mainly includes [4.6](#)

[batch increase of personnel \(URI\)](#) and [4.7 batch modification personnel \(URI\)](#) With the combination of two interfaces, if the personnel list of "customId" imported from the platform already exists in the face recognition all-in-one machine, the corresponding operation is to modify this personnel list information; if the "customId" imported from the platform does not exist in the corresponding face recognition all-in-one machine, the corresponding operation is to add this personnel list. If you call this interface, you can consider not calling it again [4.6 batch increase of personnel \(URI\)](#) and [4.7 batch modification personnel \(URI\)](#) Two interfaces. At present, this interface only supports pictures in URI mode, and the maximum number of people added or modified in batches by the face recognition integrated machine is limited to 1000. Every time the platform calls the interface, it needs to wait for the last batch modification of people list to succeed before issuing the batch modification of people list interface again. After calling the interface, the number and information of failure and success will be returned once. If the modification fails, the information error code will be attached. Please refer to the appendix for the error code [4.10 Batch Add or Modify Person \(URI\) Error Codes](#) . You can also call [4.8 query batch adding / modifying personnel progress](#) To query whether the interface is complete.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|-----------|--------|--|---|
| operator | | EditPersonsNew/ EditPersonsNew-Ack/ | EditPersonsNew:批量修改人员 EditPersonsNew: Batch Modifier EditPersonsNew-Ack:批量修改人员返回 EditPersonsNew-Ack: batch modifier returns |
| messageId | String | | 消息 id,区分每一条消息 Message id to distinguish each message |

| | | | |
|------------|--------|--|---|
| DataBegin | String | 固定:BeginFlag Fixed: BeginFlag | 数据包开始标识, 检测数据包完整性 Packet start identification to detect packet integrity |
| DataEnd | String | 固定:EndFlag Fixed: endflag | 数据包结束标识, 检测数据包完整性 End of packet identification, detection of packet integrity |
| PersonNum | int | 1~1000 | 人员数目,必须和对应人员信息 json 个数一致 The number of personnel must be consistent with the number of JSON of corresponding personnel information |
| info | | | 具体内容 Specific content |
| [] | | | 人员名单 json 集合 Personnel list JSON collection |
| customId | String | | 平台生成的 id,用于唯一标识不同人员,建议使用身份证号, 长度 48 字符 (包含结束符), 一体机已经存在则为修改名单, 一体机不存在则为添加名单 The id generated by the platform is used to uniquely identify different people. It is recommended to use the ID number with a length of 48 characters (including the terminator). If the all-in-one machine already exists, it is a modified list, and if the all-in-one machine does not exist, it is an added list |
| name | String | 长度 32 字符 (包含结束符) Length 32 characters (including terminator) | 人员名字 Person name |
| personType | int | 0~1 | 0: 白名单 1: 黑名单 0: whitelist 1: blacklist |

| | | | |
|----------------|----------------------|---------------------|---|
| tempCardType | int | 0~3 | 名单类型 List type 0:永久名单 0: permanent list 1:临时名单 1(时间段有效) 1: provisional list 1 (valid time period) 2:临时名单 2(每天同一时间段有效) 2. Provisional List 2 (valid at the same time every day) 3 临时名单 3(次数有效) 3Provisional List 3 (valid times) |
| cardValidBegin | String (optional) | 2020-04-18 00:00:00 | 临时名单开始时间 Start time of provisional list 名单类型为临时名单 1 或 2 时必填 Required when the list type is temporary list 1 or 2 |
| cardValidEnd | String (optional) | 2020-04-20 23:59:59 | 临时名单结束时间 End time of provisional list 名单类型为临时名单 1 或 2 时必填 Required when the list type is temporary list 1 or 2 |
| EffectNumber | int (optional) | | 临时名单 3 的有效次数 Valid times of provisional list 3 名单类型为临时名单 3 时必填 Required when the list type is temporary list 3 |
| nation | int (optional) | 1~57 | 民族 ethnic group 1: 汉族 1: Han nationality 详见附录 A A.1 民族 See Appendix a.1 Nationalities |
| gender | int (optional) | 0~1 | 性别 0: 男 1: 女 |

| | | | |
|-------------------|----------------------|-----|---|
| | | | Gender 0: male 1: female |
| idCard | String (optional) | | 证件号码，长度 32 字符（包含结束符） Certificate number, 32 characters in length (including terminator) |
| telnum1 | String (optional) | | 电话号码，长度 32 字符（包含结束符） Telephone number, 32 characters long (including terminator) |
| native | String (optional) | | 籍贯，长度 32 字符（包含结束符） Native place, 32 characters in length (including terminator) |
| address | String (optional) | | 住址，长度 72 字符（包含结束符） Address, 72 characters in length (including terminator) |
| birthday | String (optional) | | 生日 birthday 1992-06-15 |
| notes | String (optional) | | 备注（特殊版本复用为多时间段策略组 ID 1~255） Remarks (special version is reused as multi-time period policy group ID 1~255) |
| isCheckSimilarity | int (optional) | 0~1 | 检测修改的图片和底库的人员相似度， 大于设置的黑白名单验证门限值将不 删除对应控制记录的注册图像，小于将 删除之前的控制记录注册图像 Detect the personnel similarity between the modified picture and the base library. If it is greater than the set black-and-white list verification threshold, the registered image of the corresponding control record will not be deleted, but less than the registered |

| | | | |
|-------------|-------------------|------------|--|
| | | | <p>image of the previous control record will be deleted</p> <p>0:不检测图片相似度(默认:0)</p> <p>0: do not detect image similarity (default: 0)</p> <p>1: 检测图片相似度</p> <p>1: Detect image similarity</p> |
| cardType2 | int (optional) | 0~3 | <p>韦根卡号生成方式</p> <p>Generation method of Wigan card number</p> <p>0: 公用卡号</p> <p>0: public card number</p> <p>1: 自动生成</p> <p>1: automatically generated</p> <p>2: 手动输入</p> <p>2: Manual input</p> <p>3: 不使用门禁</p> <p>3. Do not use access control</p> |
| WiegandType | int (optional) | 0~1 or 6~7 | <p>组成韦根卡号根据的韦根协议;当 cardType2=2 必填;</p> <p>Wigan protocol which constitutes the Wigan card number; When cardType2=2 is required;</p> <p>0: 26 位</p> <p>0: 26 bits</p> <p>1: 34 位</p> <p>1: 34 bits</p> <p>6:26 位(8+16 facility code+userid(设备代码+卡号)分开填写);</p> <p>6:26 digits (8+16 facility code+userid (equipment code+card number) are filled separately);</p> <p>7:34 位(8+24 facility code+userid(设备</p> |

| | | | |
|----------------|-------------------------------|-----|--|
| | | | 代码+卡号)分开填写) 7:34 digits (8+24 facility code+userid (equipment code+card number) are filled separately) 默认:1 (34 位) Default: 1(34-bit) |
| WGFacilityCode | int (optional) | | 设备代码(Facility code);当 WiegandType= 6 or 7 时必填;和 cardNum2 一起使用。当 WiegandType=0 or 1时,不必填写。 Equipment code (Facility code); Required when WiegandType= 6 or 7; Used with cardNum2. There is no need to fill in when WiegandType=0 or 1. |
| cardNum2 | int (optional) | | 韦根门禁卡号(userid) Wigan access card number (userid) cardType2 为 2 时必填 CardType2 is required when it is 2 |
| CardMode | unsigned int (optional) | 0~1 | 组成韦根门禁卡号采用模式 The mode of composition of Weigan access control card number 0: 十进制构成卡号 0: Decimal card number 1: 十六进制构成卡号 1: Hexadecimal card number 默认 0: 十进制构成卡号 Default 0: Decimal card number |
| RFCardMode | unsigned int (optional) | 0~1 | 组成 RF (ID) 卡号采用模式, 针对 内置刷卡机型,版本号中带有 I, 如 I4, I6 |

| | | | |
|----------|-------------------|--|---|
| | | | <p>Composition RF (ID) card number adopts the mode, aiming at the built-in card swiping model, the version number contains I, such as I4 and I6</p> <p>0: 十进制构成卡号 0: Decimal card number 1: 十六进制构成卡号 1: Hexadecimal card number 默认 1: 十六进制构成卡号 Default 1: Hexadecimal constitutes the card number</p> |
| RFIDCard | int (optional) | <p>如果 RFCardMode=0, 填入十进制字符串 ("1369406761"); 如果 RFCardMode=1, 填入十六进制字符串 ("519F7D29")</p> <p>If RFCardMode=0, fill in the decimal string ("1369406761"); If RFCardMode=1, fill in the hexadecimal string ("519F7D29")</p> | <p>ID 卡卡号, 最大长度为 10 个字符长度, 针对内置刷卡机型 (含结束符)</p> <p>ID card number, the maximum length is 10 characters, for the built-in card reader (including the end character)</p> |
| cardType | int (optional) | | <p>证件类型: 0 身份证</p> <p>Certificate type: 0 ID card</p> |
| picURI | String | https://btgongpluss.oss-cn-beijing.aliyuncs.com/bigheadphoto/xxx.jpg | <p>人员名单图片 URI 地址, 不更改则不传</p> <p>URI address of personnel list picture, which will not be transmitted if it is not changed</p> |
| | | | |
| | | | |

| | | | |
|--------------|--------|--------|--|
| facesluiceld | String | | 人脸识别一体机 id,返回参数 Face recognition machine ID, return parameters |
| AddErrNum | int | 0~1000 | 批量修改人员失败的个数,返回参数 Number of people failed to modify in batch, return parameter |
| AddErrInfo | String | | 批量修改人员失败信息 (customId+errcode),返回参数, errcode 见附录 Batch modify personnel failure information (customId+errcode) and return parameters. see appendix for errcode |
| AddSucNum | int | 0~1000 | 批量修改人员成功的个数,返回参数 Batch modify the number of successful personnel, and return the parameter |
| AddSucInfo | String | | 批量修改人员失败信息(customId),返回参数 Batch modify personnel failure information (customId) and return parameters |
| | | | |

4.10.1 批量添加或修改人员

4.10.1 Adding or modifying personnel in batches

e.g.1,批量添加或修改名单 1000 条

E.g.1, add or modify 1000 lists in batches

```
{
  "messageId": "EditPersonsNewlist2020-07-24T19:07:00_00002",
  "DataBegin": "BeginFlag",
  "operator": "EditPersonsNew",
  "PersonNum": "1000",
  "info":
```

[

```

{
  "customId":"063c81e0fce184c696cdb7e049230f5e23dfqwx230000",
  "name":"modify000",
  "telnum1":"13700880000"
}

,

/*此处省略 998 个人员名单 json 数据*/
/*The JSON data of 998 personnel lists is omitted here*/

{

  "customId":"063c81e0fce184c696cdb7e049230f5e23dfqwx230999",
  "name":"modify999",
  "picURI":"https://btgongpluss.oss-cn-beijing.aliyuncs.com/bigheadphoto/xxx111.jpg"
}

[
  "DataEnd":"EndFlag"
]
}

```

4.10.2 批量添加或修改人员返回

4.10.2 Return of batch adding or modifying personnel

e.g.1,批量添加或修改名单 1000 条返回

E.g.1, add or modify 1000 lists in batches and return them

```

{
  "messageId":"EditPersonsNewlist2020-07-24T19:07:00_00002",
  "operator": "EditPersonsNew-Ack",
  "info":
[
    {
[
      "facesluiceId":"1306612",
      "AddErrNum":"1",
      "AddSucNum":"999",
      "AddErrInfo":
[
        {"customId":"063c81e0fce184c696cdb7e049230f5e23dfqwx230898","errcode":"461"}

```

```
[,
"AddSucInfo":
[
  {"customId":"063c81e0fce184c696cdb7e049230f5e23dfqwx230000"},
  {"customId":"063c81e0fce184c696cdb7e049230f5e23dfqwx230000"},

  /*此处省略 996 条返回数据*/
  /*996 returned data are omitted here*/
  {"customId":"063c81e0fce184c696cdb7e049230f5e23dfqwx230999"}
],
{
  "result":"ok"
}
```

5 认证识别人员信息上传

5. Upload the information of authentication and identification personnel

认证识别人员信息由人脸识别一体机端推送到对应 [3.2.2 发布话题](#)

Authentication and identification personnel information is pushed to the corresponding by the face recognition integrated machine [3.2.2 Publish the topic](#)

中识别认证对应的话题中。如果设备设置在断网续传模式下使用，需要对上报的数据进行回复，否则设备会发送同一条识别记录；具体参考 [11 断网续传部分说明](#)，注意断网续传模式对于远程开门产生的控制记录也需要进行回复。

In the topic corresponding to identification and authentication. If the equipment is set to be used in the mode of disconnection and continuous transmission, it is necessary to reply to the reported data, otherwise the equipment will send the

same identification record; Specific reference [11. Continuous transmission after network interruption](#) Part of the explanation, pay attention to the control records generated by remote door opening in the mode of disconnection and continuous transmission.

| Key | Type | Values | Description |
|--------------|------|--|---|
| operator | | 操作标志, RecPush Operation flag, RecPush | 认证识别结果推送(char) Authentication recognition result push (char) |
| customId | char | | 平台生成的人员 id,区分每一个人员 Personnel id generated by the platform to distinguish each person |
| personid | char | | 一体机上的 ID, 区分每一个人员, 机器生成, 平台不可控制 The ID on the all-in-one machine distinguishes each person, is generated by the machine, and the platform is uncontrollable |
| RecordID | int | | 控制记录库 ID,用于断网续传时回 复人脸识别一体机 The control record library ID is used to reply to the face recognition integrated machine when the network is disconnected for continuous transmission |
| VerifyStatus | int | 0~3 或 22、24 0~3 or 22, 24 | 认证结果 Authentication result 0: 无 0: none 1: 允许 |

| | | | |
|----------------|-------|-------|---|
| | | | 1: allowed 2: 拒绝 2: Reject 3: 还没有注册 3: Not registered yet 22:待核验(开门方式为 3:人脸核验+远程开门方式的控制记录) 22: to be verified (door opening method is 3: face verification+control record of remote door opening method) 24:无权限（特殊版本非通行时间段的控制记录） 24: No authority (control record of non-traffic period of special version) |
| PersonType | int | 0~1 | 名单类型 List type 0: 白名单 0: white list 1: 黑名单 1: blacklist |
| facesluiceId | | | 一体机 ID，区分每一台机器 All-in-one machine ID to distinguish each machine |
| facesluiceName | | | 一体机名称 All-in-one machine name |
| similarity1 | float | 0~100 | 黑白名单比对相似度 Similarity of black and white list comparison |
| similarity2 | float | 0~100 | 身份证比对相似度 Similarity of ID card comparison |
| pic | | | 图片的 base64 编码(1M 以内) |

| | | | |
|-------|------|---|--|
| | | | Base64 encoding of pictures (within 1M) |
| time | char | | 识别时间 Recognition time |
| otype | int | <p>基础验证类型,(十进制表示)。</p> <p>Basic authentication type, (decimal representation).</p> <p>1: 白名单验证 1: white list verification</p> <p>2: 身份证验证 2. ID card verification</p> <p>3: 白名单 + 身份证验证 3: White list+ID card verification</p> <p>7: MQTT 远程开门 7: MQTT opens the door remotely</p> <p>21:RF 卡验证(内置刷卡机型) 21:RF card verification (built-in card swiping model)</p> <p>22:RF 卡验证 + 白名单验证(内置刷卡机型) 22:RF card verification+white list verification (built-in card swiping model)</p> <p>24:韦根卡验证 24: Wegeneka</p> | <p>1: 普通中性机器:1~3or7 or 21~22 or 24~25 or 27; 1: Ordinary neutral machine: 1 ~ 3or7 or 21 ~ 22 or 24 ~ 25 or 27;</p> <p>2: 支持口罩或测温机器: 2: Support mask or temperature measuring machine:</p> <p>支持口罩检测 或()操作 0x100 表示带有口罩检测通行; Support mask detection or () operation, and 0x100 indicates passing with mask detection;</p> <p>支持体温检测或()操作 0x200 表示带有体温检测通行; It supports temperature detection or () operation, and 0x200 indicates that it has temperature detection;</p> <p>支持口罩+体温检测或()操作 0x300 表示带有口罩+体温检测通行; Support mask + body temperature detection or () operation. 0x300 indicates that the mask + body temperature detection is available;</p> <p>例如: For example:</p> <p>口罩通行 (256=0x100) Mask pass (256 = 0x100)</p> <p>口罩+白名单验证 (257=0x101) Mask + whitelist verification (257 =</p> |

| | | | |
|-------------|--------------|--|---|
| | | verification 25:韦根卡 + 白名单验证 25: wegenka + whitelist verification 27:HTTP 远程开门 27: http remote door opening | 0x101) 体温通行 (512=0x200) Body temperature pass (512 = 0x200) 体温+白名单验证 (513=0x201) Body temperature + whitelist verification (513 = 0x201) 口罩+体温 (768=0x300) Mask + body temperature (768 = 0x300) 口罩+体温+韦根刷卡+白名单验证 (793=0x319) Mask + body temperature + Wigan swipe card + whitelist verification (793 = 0x319) |
| cardNum2 | unsigned int | | 韦根门禁卡号 (闸机上是 int 类型) Wigan access control card number (int type on the gate) |
| RFIDCard | char | | ID 卡卡号, 最大长度为 10 个字符长度,针对内置刷卡机型 (含结束符) ID card number, the maximum length is 10 characters, for the built-in card reader (including the end character) |
| idCard | char | | 身份证号 ID number |
| telnum | char | | 电话号码 phone number |
| direction | char | | 出入口方向 进口:"entr" , 出口:"exit" ,无方向: "unknow" Entrance direction: import: "enter", exit: "exit", no direction: "unknown" |
| temperature | float | | 实时检测人脸温度, 当 9.3 开门条件及输出控制中设置的开门验证方式带有体温检测才返回检测温度 |

| | | | |
|------------------|-------------------|-----|---|
| | | | <p>(温度检测机器版本支持)</p> <p>Real time detection of face temperature, when 9.3 Opening Conditions and Output Control The door opening verification mode set in can only return the detected temperature with body temperature detection (temperature detection machine version support)</p> |
| temperatureAlarm | int | | <p>实时检测人脸温度是否超过阈值,0: 没超过; 1: 超过 (温度检测机器版本支持)</p> <p>Real time detection of whether the face temperature exceeds the threshold, 0: not;1: Over (temperature detection machine version support)</p> |
| PushType | int | | <p>推送类型</p> <p>Push type</p> <p>0: 预留</p> <p>0: reserved</p> <p>1: 预留</p> <p>1: Reserved</p> <p>2: 调用 20 手动推送控制记录的数据返回</p> <p>2: Call 20 manual push control records Data return for</p> |
| nQRCodeType | int (optional) | 0~3 | <p>0:无(未校验), 1:黄码 2:红码 3:绿码 (仅国康码版本在线模式支持)</p> <p>0: none (not checked), 1: Yellow code 2: red code 3: Green code</p> |

| | | | |
|--------------------|----------------------|---|--|
| | | | (only supported by online mode of Guokang code version) |
| guoKangCodeName | String (optional) | 黄** Yellow** | 国康码脱敏姓名(仅国康码版本在线模式支持) National Health Code desensitization name (only supported by online mode of Guokang code version) |
| guoKangCodeIDCard | String (optional) | *****3734 | 国康码脱敏身份证号(仅国康码版本在线模式支持) National Health Code desensitization ID card number (only supported by online mode of Guokang code version) |
| guoKangCodeAddress | String (optional) | 广东省深圳市, 广东省 东莞市 Shenzhen City, Guangdong Province, Dongguan City, Guangdong Province | (14 天行程) (仅国康码版本在线模式支持) (14 day trip) (only supported by online mode of Guokang code version) |
| guoKangCodeDate | String (optional) | yyy-MM-dd HH:mm:ss | (14 天行程绑定时间 yyyy-MM-dd HH:mm:ss)(仅国康码版本在线模式支持) (14 day trip binding time yyyy MM DD HH: mm: SS) (only supported by online mode of Guokang code version) |

e.g.1,认证识别结果推送上报:

e. G.1, push and report authentication and identification results:

```
{
  "operator": "RecPush",
  "info":
```

```
{  
  █  
  "customId": "063c81e0fce184c696cdb7e049230f5e ",  
  "personId": "41",  
  "direction": "entr",  
  "otype": "1",  
  "persionName": "张三",  
  "Persistname": "Zhang San",  
  "facesluiceId": "1305433",  
  █  
  "facesluiceName": "Face1",  
  "cardNum2": "2",  
  "time": "2018-03-07 14:01:01",  
  ""pic": "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAQABAAD/2w.....",  
  "otype": "1",  
  "temperature": "36.53",  
  "temperatureAlarm": "0"  
}  
  
}
```

6 陌生人人员信息上传

6 stranger personnel information upload

打开陌生人抓拍上传模式下陌生人抓拍上传主动推送至抓拍推送主题中，见 [3.2.3 订阅话题](#)。

Turn on the stranger snapshot upload mode and push the stranger snapshot upload to the snapshot push topic. See [3.2.3 Subscription topics](#)

| Key | Type | Values | Description |
|----------------|--------|---|--|
| operator | | 操作标志，StrSnapPush Operation flag, strsnappush | 陌生人抓拍推送(char) Stranger capture push (char) |
| SnapID | int | | 陌生人抓拍库 ID,用于断网续传时 回复人脸识别一体机 The ID of the stranger snapshot library is used to reply to the face recognition machine when the network is disconnected |
| facesluiceId | String | | 一体机 ID，区分每一台机器 All-in-one machine ID to distinguish each machine |
| facesluiceName | String | | 一体机名称 All-in-one machine name |
| time | String | "2019-11-28 11:26:40" | 陌生人抓拍时间 Snapshot time of strangers |
| direction | String | 进口:"entr" ， 出口:"exit" , 无方向: "unknow" Import: "enter", export: "exit", no direction: | 一体机进出口方向 Import and export direction of all in one machine |

| | | | |
|------------------|-------|-----------|--|
| | | "unknown" | |
| temperature | float | | <p>实时检测人脸温度，当 9.3 开门条件及输出控制中设置的开门验证方式带有体温检测才返回检测温度（温度检测机器版本支持）</p> <p>Real time detection of face temperature, when 9.3 Opening Conditions and Output Control The door opening verification mode set in can only return the detected temperature with body temperature detection (temperature detection machine version support)</p> |
| temperatureAlarm | int | | <p>实时检测人脸温度是否超过阈值,0：没超过；1：超过（温度检测机器版本支持）</p> <p>Real time detection of whether the face temperature exceeds the threshold, 0: not;1: Over (temperature detection machine version support)</p> |
| pic | | | <p>图片的 base64 编码(1M 以内)</p> <p>Base64 encoding of pictures (within 1M)</p> |
| PushType | int | | <p>推送类型</p> <p>Push type</p> <p>0：预留</p> <p>0: reserved</p> <p>1：预留</p> <p>1: Reserved</p> <p>2：调用 22 手动推送陌生人抓拍记录的数据返回</p> <p>2: Call 22 Manually push strangers to</p> |

| | | | |
|--|--|--|---|
| | | | capture records Data return for |
|--|--|--|---|

e.g.1,陌生人抓拍推送上报:

e. G.1, stranger snapshot push report:

```
{
  [REDACTED]
  "operator": "StrSnapPush",
  "info":
  {
    [REDACTED]
    "facesluiceId": "1305433",
    [REDACTED]
    "facesluiceName": "Face1",
    [REDACTED]
    "direction": "exit",
    "time": "2019-11-28 11:26:40",
    "pic":
    "data:image/jpeg;base64,Qk3m5QAAAAAAAAADYAAAAoAAAAjAAAAIwAAAABABgAAAA
    AAAAAAAAAASCwAAEg.....",
    "temperature": "36.53",
    "temperatureAlarm": "0"
  }
}
```

7 远程升级版本和获取版本信息

7 Remote upgrade version and obtain version information

7.1 下发升级指令

7.1 Issue upgrade instructions

远程升级指令由服务器端发送对应升级信息到人脸识别一体机, 确认信息由人脸识别一体机发送到服务器端。

The server sends the corresponding upgrade information to the face recognition all-in-one machine, and the confirmation information is sent to the server by the face recognition all-in-one machine.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|--------------|----------------------|-------------------------|---|
| operator | | Upgrade/ Upgrade-Ack | Upgrade:升级版本 Upgrade: upgrade version Upgrade-Ack:升级版本返回 Upgrade ack: upgrade version return |
| messageId | String | | 消息 id,区分每一条消息 Message id to distinguish each message |
| info | | | 具体内容 Specific content |
| facesluiceId | String (optional) | | 一体机设备号 id,返回值 All in one machine device ID, return value |
| name | String | | 版本名称 |

| | | | Version name |
|--------|----------------------|-------------|---|
| path | String | | 升级文件的下载路径，后缀名必须是".swx" The download path of the upgrade file. The suffix must be ". SWX" |
| result | String | “ok”/“fail” | 操作结果 Operation result |
| detail | String (optional) | | 当 result 为“fail”时，错误信息 Error message when result is "fail" |

```
{
  "messageId": "ID:localhost-637050900934386959:42763:53:1",
  "operator": "Upgrade",
  "info": {
    {
      "name": "最新版本",
      "Name": "latest version",
      "path": "https://mqttxxxx.oss-cn-shenzhen.aliyuncs.com/face/ba30fcbe-4758-4e1c-a287-5ab448a475ed.swx"
    }
  }
}
```

7.2 升级确认消息回复

7.2 reply to upgrade confirmation message

```
{
  "messageId": "ID:localhost-637050900934386959:42763:53:1",
  "operator": "Upgrade-Ack",
  "info": {
    "facesluiceId": "5d0848e581c3e6f1938a035f",
    "name": "最新版本",
    "Name": "latest version",
    "result": "ok"
  }
}
```

7.3 获取当前软件版本

7.3 Get the current software version

7.3.1 下发获取当前软件版本指令

7.3.1 issue command to obtain current software version

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|--------------|----------------------|---------------------------|--|
| operator | | Versions/ Versions-Ack | Versions:获取软件版本 Versions: get software version Versions-Ack:获取软件版本返回 Versions ack: get software version return |
| messageId | String | | 消息 id,区分每一条消息 Message id to distinguish each message |
| info | | | 具体内容 Specific content |
| facesluiceId | String | | 一体机设备号 id,返回值 All in one machine device ID, return value |
| name | String | | 软件版本号 Software version number |
| buildtime | String | | 软件版本生成时间 Software version generation time |
| result | String | “ok”/“fail” | 操作结果 Operation result |
| detail | String (optional) | | 当 result 为“fail”时，错误信息 Error message when result is "fail" |

```
{
  "operator": "Versions",
  "messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "info": {
    {
  }
```

7.3.2 返回获取当前软件版本信息

7.3.2 return to get current software version information

```
{
  "messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "operator": "Versions-Ack",
  "info": {
    "facesluiceId": "1305433",
    "name": "v12.5.6L3M1-1.0.6.9 Beta",
    "buildtime": "2019-12-02/10:46:05",
    "result": "ok"
  }
}
```

8 远程开门

8 Open the door remotely

8.1 远程开门

8.1 Open the door remotely

远程开门指令由服务器端发送对应开门信息到人脸识别一体机，人脸识别一体机执行开门动作及 UI 提示。

The server sends the corresponding door opening information to the face recognition all-in-one machine, and the face recognition machine performs the door opening action and UI prompt.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|--------------|----------------------|-----------------------|--|
| operator | | Unlock/ Unlock-Ack | Unlock:远程开门 Unlock: remote door opening Unlock-Ack:远程开门返回 Unlock ack: remote door opening and return |
| messageId | String | | 消息 id,区分每一条消息 Message id to distinguish each message |
| info | | | 具体内容 Specific content |
| facesluiceId | String | | 一体机设备号 id,返回值 All in one machine device ID, return value |
| uid | String (optional) | 预留 reserve | |

| | | | |
|----------|----------------------|--|--|
| openDoor | int (optional) | 0~1 | 开门动作 Door opening action 0: 不开门 0: don't open the door 1: 开门 1: Open the door |
| showInfo | String (optional) | 64 字节(包含结束符) 64 bytes (including terminator) | UI 提示信息 UI prompt information |
| result | String | “ok”/“fail” | 操作结果 Operation result |
| detail | String (optional) | | 当 result 为“fail”时，错误信息 Error message when result is "fail" |

```
{
  "operator": "Unlock",
  "messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "info": {
    "uid": "00021",
    "openDoor": "1",
    "showInfo": "请通行"
    "Showinfo": "please pass"
  }
}
```

8.2 开门确认信息回复

8.2 Reply to the confirmation message of opening the door

```
{
  "messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "operator": "Unlock-Ack",
  "info": {
    "uid": "00001",
    "facesluiceId": "0001",
```

```
"result": "ok"
}
}
```

9. 参数配置

9. Parameter configuration

9.1 系统参数

9.1 system parameters

系统参数主要是涉及到人脸识别一体机的系统运行参数。

The system parameters are mainly related to the operation parameters of the face recognition all-in-one machine.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|-----------|--------|---|--|
| operator | | Getconfig/ Getconfig-Ack/ Upconfig/ Upconfig-Ack | Getconfig:获取系统参数 Getconfig: get system parameters Getconfig-Ack:获取系统参数返回 Getconfig ack: get system parameters return Upconfig:设置系统参数 Upconfig: setting system parameters Upconfig-Ack:设置系统参数返回 Upconfig ack: set system parameters return |
| messageId | String | | 消息 id,区分每一条消息 Message id to distinguish each message |
| info | | | 具体内容 |

| | | | Specific content |
|----------------|-------------------|-----|--|
| facesluiceld | String | | 一体机设备号 id,返回值 All in one machine device ID, return value |
| Language | int (optional) | 0~5 | 设备语言, 0:英文, 1:中文简体, 2:中文繁体, 3:葡萄牙文, 4:韩文, 5:俄语 (特殊版本支持), 6:意大利语, 7: 法语, 8: 西班牙语, 9: 日语; 10: 更改设备语言, 机器将重启 Device language: 0: English, 1: Simplified Chinese, 2: Traditional Chinese, 3: Portuguese, 4: Korean, 5: Russian (special version support), 6: Italian, 7: French, 8: Spanish, 9: Japanese; 10: Change the device language and the machine will restart |
| DataBaseEnable | int (optional) | 0~1 | 记录抓拍+记录身份证+记录认证(0 否 1 是); 默认: 1, 不开启将不保存抓拍、身份证、认证图片数据 Record capture + record ID card + record authentication (0 No, 1 yes); Default: 1. If it is not enabled, the snapshot, ID card and authentication image data will not be saved |
| IDcardType | int (optional) | 0~1 | 身份证读卡器类型, ID card reader type, 0: 中控 (IDM30), 腾研, 华视 (CVR-100B), 博雅; 0: central control (idm30), Tengyan, Huashi (cvr-100b), Boya; 1: 精伦 (IDR210); 1: Jinglun (IDR210); |

| | | | |
|-------------------|----------------------|-----------------------------|---|
| | | | 2:中控 (IDM30, IDM10) ; 2: Central control (IDM30,IDM10); 3:华视 (CVR-100UC) 3: China Vision (CVR-100UC) |
| CardReaderType | int (optional) | 预留 reserve | IC 卡读卡器类型 Type of IC card reader |
| CardOpenDoorWay | int (optional) | 预留 reserve | 刷卡开门方式 Card opening method 0: 人脸+卡 1: 人脸或卡 0: face+card 1: face or card |
| FaceDisplay | int (optional) | 0~1, 默认 1 0~1, default 1 | 是否显示人脸框 Show face frame or not 0:否 1:是 0: no 1: yes |
| LiveDetectType | int (optional) | 0~2, 默认 1 0~2, default 1 | 活体检测模式 0: 活体检测 一直打开, 1: 关闭活体检测, 2: 按时间段打开活体检测 Live detection mode 0: Live detection is always on, 1: Live detection is turned off, and 2: Live detection is turned on according to time period |
| LiveDetectTimeBeg | String (optional) | e.g.,07:00:00 | 活体检测每天启动时间点 Start time point of living body test every day LiveDetectType=2 时必填 Mandatory when LiveDetectType=2 |
| LiveDetectTimeEnd | String (optional) | e.g.,19:00:00 | 活体检测每天结束时间点 End time point of living body test every day LiveDetectType=2 时必填 Mandatory when LiveDetectType=2 |
| LiveThreshold | Double | e.g.,90.000000 | 活体检测阈值(不可设置) |

| | | | |
|--------------------|----------------------|---------------|--|
| | (optional) | | Live detection threshold (not settable) |
| LiveFrameNum | int (optional) | | 活体检测连续帧数,帧数越大,识别占用时间增加(不可设置) The number of consecutive frames in living body detection, the larger the number of frames, the longer the recognition time (can not be set) |
| LedLightType | int (optional) | 0~5 | 启用白光灯类型 0: 从不 1: 时间控制 2: 光敏控制 3: 人脸感应 4: 人脸或时间 5 人脸或光感 Enable white light type 0: Never 1: Time Control 2: Photosensitive Control 3: Face Sensing 4: Face or Time 5 Face or Light Sensing |
| LedBrightness | int (optional) | | 当启用白光灯时使用 Used when white light is enabled |
| LedTimeBeg | String (optional) | e.g.,19:00:00 | 白光灯每天启用开始时间(启用白光灯时间),当 LedLightType=1, 4 时必填 White light start time every day (white light start time), which is required when LedLightType=1,4 |
| LedTimeEnd | String (optional) | e.g.,07:00:00 | 白光灯每天启用结束时间(关闭白光灯时间),当 LedLightType=1, 4 时必填 End time when white light is turned on every day (time when white light is turned off), which is required when LedLightType=1,4 |
| LedDisableAfterSec | int (optional) | | 无人多少秒后关闭白光灯(人脸感应),当 LedLightType=3,4,5 时必填 How many seconds after no one turns |

| | | | |
|----------------------|----------------------|------------------------------|---|
| | | | off the white light (face sensing), which is required when LedLightType=3,4,5 4, 5 |
| LcdBLDisable | int (optional) | | 是否无人时关闭屏幕 0: 从不, 1: 未检测到人脸时关闭屏背光 Turn off the screen when no one is there. 0: Never, 1: Turn off the backlight when no face is detected |
| LcdBLDisableAfterSec | int (optional) | | 无人多少秒后关闭屏幕,当 LcdBLDisable=1 时必须填 How many seconds after no one closes the screen, which is required when LcdBLDisable=1 |
| ScreenBrightness | int (optional) | 默认:50 Default: 50 | 屏幕亮度(预留) Screen brightness (reserved) |
| WebTimeOut | int (optional) | 2~10 默认:5 2~10 Default: 5 | web 页面登录超时时间 (分钟) Web page login timeout (minutes) |
| reboot | int (optional) | | 机器是否重启,返回值; 0:未重启 1: 重启 Whether the machine restarts or not, return the value; 0: not restarted 1: restarted |
| result | String | “ok”/“fail” | 操作结果 Operation result |
| detail | String (optional) | | 当 result 为“fail”时, 错误信息 Error message when result is "fail" |

9.1.1 获取系统参数

9.1.1 Obtain system parameters

```
{
  "operator": "Getconfig",
  "messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "info":
    {
      █
    }
}
```

9.1.2 获取系统参数返回

9.1.2 Get the system parameters and return them

```
{
  █
  "messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  █
  "operator": "Getconfig-Ack",
  "info":
    {
      █
      "facesluiceId": "1305433",
      █
      "Language": "1",
      "DataBaseEnable": "1",
      "IDcardType": "1",
      "CardReaderType": "1",
      "CardOpenDoorWay": "0",
      "FaceDisplay": "1",
      "LiveDetectType": "0",
      "LiveDetectTimeBeg": "07:00:00",

```

```
"LiveDetectTimeEnd":"19:00:00",
"LiveThreshold":"90.340000",
"LiveFrameNum":"2",
"LedLightType":"0",
"LedTimeBeg":"07:00:00",
"LedTimeEnd":"19:00:00",
"LedBrightness":"50",
"LedDisableAfterSec":"30",
"LcdBLDisable":"0",
"LcdBLDisableAfterSec":"30",
"ScreenBrightness":"50",
"result":"ok"
}
■
}
```

9.1.3 设置系统参数

9.1.3 Setting system parameters

如果需要设置系统参数的对应选项，则需要传入对应参数，具体参数说明见 [9.1 系统参数](#) 说明。更改机器语言成功，人脸识别一体机将会 **重启**。

If you need to set the corresponding options of system parameters, you need to pass in the corresponding parameters. See for details of the parameters [9.1 system parameters](#) Description. If the machine language is changed successfully, the all-in-one face recognition machine will restart.

e.g.1,更改白光灯启用类型及时间段:

E.g.1, change the activation type and time period of white light:

```
{
■
"messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
■
"operator": "Upconfig",
"info":
■
{
■
}
```

```
"LedLightType": "1",
"LedTimeBeg": "20:00:00",
"LedTimeEnd": "08:00:00",
"LedBrightness": "60"
}

```

9.1.4 设置系统参数返回

9.1.4 Set system parameters to return

```
{
  "messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "operator": "Upconfig-Ack",
  "info": {
    "facesluiceId": "1305433",
    "reboot": "0",
    "result": "ok"
  }
}
```

9.2 声音及界面显示参数

9.2 Sound and Interface Display Parameters

参数信息(注:optional 为可选项)
Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|----------|------|---|--|
| operator | | GetSoundconfig/ UpSoundconfig/ GetSoundconfig-Ack/ UpSoundconfig-Ack | 获取/设置 声音及界面显示参数 Get/set sound and interface display parameters |

| | | | |
|------------------|-------------------|-------|--|
| | | | 获取/设置 声音及界面显示参数返回 Get/set sound and interface display parameter return |
| info | | | 具体内容 Specific content |
| facesluiceId | char | | 人脸识别一体机 id Face recognition integrated machine id |
| VerifySuccAudio | int (optional) | 0~1 | 认证成功是否声音播报 Whether the authentication is successful or not 0: 不播报 0: do not broadcast 1: 播报 1: broadcast |
| VerifyFailAudio | int (optional) | 0~1 | 认证失败是否声音播报 Is the authentication failure broadcast by voice 0: 不播报 0: do not broadcast 1: 播报 1: broadcast |
| Volume | int (optional) | 0~100 | 音量值 Volume value |
| VerifySuccGuiTip | int (optional) | 0~1 | 认证成功界面是否提示 Whether the authentication success interface prompts 0: 不提示 0: don't prompt 1: 提示 1: prompt |
| VerifyFailGuiTip | int (optional) | 0~1 | 认证失败界面是否提示 |

| | | | |
|--------------------|-------------------|-----|--|
| | | | Whether the authentication failure interface prompts 0: 不提示 0: don't prompt 1: 提示 1: prompt |
| UnregisteredGuiTip | int (optional) | 0~1 | 名单未注册界面是否提示 Do you want to prompt if the list is not registered 0: 不提示 0: don't prompt 1: 提示 1: prompt |
| DisplayPicture | int (optional) | 0~1 | 比对成功界面提示图像类型 Image type prompted by successful comparison interface 0: 抓拍图像 0: capture image 1: 注册图像 1: register image |
| RemoteCtrlAudio | int (optional) | 0~1 | 远程控制播放声音 Remote control to play sound 0: 不播放声音 0: do not play sound 1: 播放声音 1: Play sound |
| IPHide | int (optional) | 0~1 | 界面 IP 是否隐藏 Is the interface IP hidden 0: 不隐藏 0: do not hide 1: 隐藏 1. hidden |
| IsShowName | int (optional) | 0~2 | 比对成功，名字提示是否显示 |

| | | | |
|---------------|-------------------|-----|---|
| | | | <p>The comparison is successful. Is the name prompt displayed</p> <p>0: 不显示</p> <p>0: do not display</p> <p>1: 显示</p> <p>1: display</p> <p>2: 部分显示(隐藏后面部分)</p> <p>2: partial display (hide the back part)</p> |
| IsShowTitle | int (optional) | 0~1 | <p>界面标题提示是否显示(弃用)</p> <p>Whether the interface title prompt is displayed (discarded)</p> <p>0: 不显示</p> <p>0: do not display</p> <p>1: 显示</p> <p>1: display</p> |
| IsShowVersion | int (optional) | 0~1 | <p>界面版本号提示是否显示(弃用)</p> <p>Whether to display the interface version number prompt (discard)</p> <p>0: 不显示</p> <p>0: do not display</p> <p>1: 显示</p> <p>1: display</p> |
| IsShowDate | int (optional) | 0~1 | <p>界面日期提示是否显示(弃用)</p> <p>Display (discard) the interface date prompt</p> <p>0: 不显示</p> <p>0: do not display</p> <p>1: 显示</p> <p>1: display</p> |
| IsShowTime | int (optional) | 0~1 | <p>界面时间提示是否显示(弃用)</p> <p>Is the interface time prompt displayed (discarded)</p> <p>0: 不显示</p> |

| | | | |
|------------------|----------------------|-----|---|
| | | | 0: do not display 1: 显示 1: display |
| IDCardNumHide | int (optional) | 0~1 | 界面卡号是否隐藏(内置刷卡机型) Is the interface card number hidden (built-in card swiping model) 0: 不隐藏 0: do not hide 1: 隐藏 1. hidden |
| ICCardNumHide | int (optional) | 0~1 | 界面 IC 卡号是否隐藏(除内置刷卡机型外) Is the interface IC card number hidden (except for the built-in card swiping model) 0: 不隐藏 0: do not hide 1: 隐藏 1. hidden |
| IsShowDeviceID | int (optional) | 0~1 | 显示本机 ID Show local ID 0: 不显示 0: do not display 1: 显示 1: display |
| IsShowPersonNum | int (optional) | 0~1 | 显示注册名单数 Displays the number of registration lists 0: 不显示 0: do not display 1: 显示 1: display |
| VerifyTipContent | String (optional) | 自定义 | 认证成功 UI 文字提示(长度 64 字节以内) |

| | | | |
|----------------------|-------------------|--|--|
| | | customize | UI text prompt for successful authentication (within 64 bytes in length) 默认：请通行 Default: Please pass |
| UnregisterTipContent | String (optional) | 自定义 customize | 名单未注册 UI 文字提示（长度 64 字节以内） UI text prompts are not registered on the list (within 64 bytes in length) 默认：陌生人 Default: stranger |
| BlacklistTipContent | String (optional) | 自定义 customize | 认证失败 UI 文字提示（长度 64 字节以内） Authentication failure UI text prompt (within 64 bytes in length) 默认：禁止通行 Default: no access |
| CompanyName | String (optional) | 自定义 customize | 公司名称(长度 64 字节以内)部分版本支持 Company name (length less than 64 bytes) partial version support |
| result | | 操作结果,成功：“ok” / 失败：“fail” Operation result, success: "OK" or "failure" | |
| detail | | 失败时返回原因 Return reason on failure | |

9.2.1 获取声音及界面显示参数

9.2.1 acquiring sound and interface display parameters

e.g.,

```
{
  "operator": "GetSoundconfig",
  "messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "info":
    {
      █
    }
}
```

9.2.2 获取声音及界面显示参数返回

9.2.2 acquisition of sound and interface display parameters return

e.g.,

```
{
  █
  "messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  █
  "operator": "GetSoundconfig-Ack",
  "info":
    {
      █
      "facesluiceId": "1305433",
      █
      "VerifySuccAudio": "1",
      "VerifyFailAudio": "1",
      "Volume": "90",
    }
}
```

```
"VerifySuccGuiTip": "1",
"VerifyFailGuiTip": "1",
"UnregisteredGuiTip": "1",
"DisplayPicture": "1",
"RemoteCtrlAudio": "0",
"IPHide": "0",
"IsShowName": "1",
"IsShowTitle": "0",
"IsShowVersion": "0",
"IsShowDate": "1",
"IsShowTime": "1",
"ICCardNumHide": "0",
"VerifyTipContent": "请通行",
"Verifytipcontent": "please pass",
"UnregisterTipContent": "陌生人",
"Unregistertipcontent": "stranger",
"BlacklistTipContent": "禁止通行",
"Blacklisttipcontent": "no access",
"CompanyName": "深圳市 XXX 总公司",
"CompanyName": "Shenzhen XXX head office",
"result": "ok"
}
■
}
```

9.2.3 设置声音及界面显示参数

9.2.3 setting sound and interface display parameters

e.g.,

```
{
"operator": "UpSoundconfig",
"messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
"info":
{
■
"VerifySuccAudio": "1",
■
"VerifyFailAudio": "0",
```

```
"Volume": "80",
"VerifySuccGuiTip": "1",
█
"VerifyFailGuiTip": "0",
"UnregisteredGuiTip": "1",
█
"DisplayPicture": "0",
"RemoteCtrlAudio": "0",
█
"IPHide": "0",
█
"IsShowName": "1",
█
"IsShowTitle": "0",
█
"IsShowVersion": "0",
█
"IsShowDate": "1",
█
"IsShowTime": "1",
█
"ICCardNumHide": "0",
"VerifyTipContent": "请通行",
"Verifytipcontent": "please pass",
"UnregisterTipContent": "陌生人",
"Unregistertipcontent": "stranger",
"BlacklistTipContent": "禁止通行",
"Blacklisttipcontent": "no access",
"CompanyName": "深圳市 XXX 总公司"
"CompanyName": "Shenzhen XXX head office"
}
}
```

9.2.4 设置声音及界面显示参数返回

9.2.4 setting sound and interface display parameters return

```
e.g.,
{
  "messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "operator": "UpSoundconfig-Ack",
  "info":
  {
    "facesluiceId":"1305433",
    "result":"ok"
  }
}
```

9.3 开门条件及输出控制

9.3 Opening Conditions and Output Control

参数信息(注:optional 为可选项)
Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|----------|------|---|--|
| operator | | GetDoorconfig/ UpDoorconfig/ GetDoorconfig-Ack/ UpDoorconfig-Ack | 获取/设置 开门条件及输出控制 Get / set door opening conditions and output control 获取/设置 开门条件及输出控制返 |

| | | | |
|-----------------|-------------------|--|--|
| | | | 回 Get / set door opening condition and output control return |
| info | | | 具体内容 Specific content |
| facesluiceId | char | | 人脸识别一体机 id Face recognition integrated machine id |
| OpendoorWay | int (optional) | 0~3 | 开门方式 Door opening mode 0:人脸开门方式, 0: face opening mode, 1:远程开门方式, 1: Remote door opening mode, 2:远程开门或人脸方式 2: Remote door opening or face mode 3:人脸核验+远程开门方式 3: Face verification + remote door opening mode |
| FaceThreshold | int (optional) | 50~100 | 黑/白名单比对门限 Black / white list comparison threshold |
| IDCardThreshold | int (optional) | 50~100 | 身份证比对门限 ID card comparison threshold |
| VerifyMode | int (optional) | 1: 普通中性机器:1~4 or 21~26 1: General neutral machine: 1 ~ 4 or 21 ~ 26 2: 支持口罩或测温机 器:是否需要口罩检测 或体温检测 或()操作 基础开门验证方式。 | 基础开门验证方式。（以下基础类 型为十进制） Basic door opening verification method. (The following basic types are decimal) 1: 白名单验证 1: white list verification 2: 身份证验证 2: ID card verification |

| | | | |
|--|--|--|--|
| | | <p>2: Support mask or temperature measuring machine: whether mask detection or temperature detection or () operation based door opening verification mode is required.</p> <p>支持口罩检测 或()操作 0x100 表示带有口罩检测验证;</p> <p>Support mask detection or () operation 0x100 means mask detection verification;</p> <p>支持体温检测 或()操作 0x200 表示带有体温检测验证;</p> <p>Support body temperature detection or () operation 0x200 means with body temperature detection verification;</p> <p>支持口罩+体温检测或()操作 0x300 表示带有口罩+体温检测验证;</p> <p>Support mask+body temperature detection or () operation 0x300 means mask+body</p> | <p>2. ID card verification</p> <p>3: 白名单 + 身份证</p> <p>3: White list+ID card</p> <p>4: 白名单 或 身份证</p> <p>4: White list or ID card</p> <p>5:单独口罩或单独体温或单独口罩+体温(需配合是否包含口罩检测或体温检测使用, 口罩或测温机型)</p> <p>5: Separate mask or separate body temperature or separate mask+body temperature (need to cooperate with whether mask detection or body temperature detection is included, mask or temperature measuring model)</p> <p>21:RF 卡验证(内置刷卡机型)</p> <p>21:RF card verification (built-in card swiping model)</p> <p>22:RF 卡验证 + 白名单</p> <p>22:RF card verification+white list 验证(内置刷卡机型)</p> <p>Authentication (built-in credit card model)</p> <p>23:RF 卡验证或白名单验证(内置刷卡机型)</p> <p>23:RF card verification or white list verification (built-in card swiping model)</p> <p>24:韦根卡验证</p> <p>24: Wegeneka verification</p> <p>25:韦根卡+白名单验证</p> <p>25: Wegeneka+white list verification</p> <p>26:韦根卡或白名单验证</p> |
|--|--|--|--|

| | | | |
|--|--|--|--|
| | | <p>temperature detection verification;</p> <p>例如:</p> <p>For example:</p> <p>1: 普通中性机器</p> <p>1: ordinary neutral machine</p> <p>1)白名单验证:1</p> <p>1) white list verification: 1</p> <p>2)韦根卡+白名单验证:25</p> <p>2) Wegener card+white list verification: 25</p> <p>2: 口罩或测温机器</p> <p>2: Mask or temperature measuring machine</p> <p>1)单独口罩验证通行 (261=0x105=0x100&5)</p> <p>1) individual masks are verified to pass (261=0x105=0x100&5)</p> <p>2)口罩+白名单验证 (257=0x101=0x100&1)</p> <p>2) Mask+white list verification (257=0x101=0x100&1)</p> <p>3)单独体温通行 (517=0x205=0x200&5)</p> <p>3) Single temperature passage (517=0x205=0x200&5)</p> <p>4)体温+白名单验证</p> | <p>26: Wegener card or white list verification</p> |
|--|--|--|--|

| | | | |
|-----------------|-------------------|---|---|
| | | <p>(513=0x201=0x200&1)</p> <p>4) Body</p> <p>temperature+white list</p> <p>verification</p> <p>(513=0x201=0x200&1)</p> <p>5) 单独口罩+体温</p> <p>(773=0x305=0x300&5)</p> <p>5) Separate mask+body</p> <p>temperature</p> <p>(773=0x305=0x300&5)</p> <p>6) 口罩+体温+韦根刷卡+白名单验证</p> <p>(793=0x319=0x300&25)</p> <p>)</p> <p>6) Mask+body</p> <p>temperature+Wigan</p> <p>swipe card+white list</p> <p>verification</p> <p>(793=0x319=0x300&25)</p> <p>)</p> | |
| VerifyResetTime | int (optional) | 1~10(s) | <p>验证复位时间（秒）</p> <p>Verify reset time (seconds)</p> <p>UI 显示提示信息以及同一人员验证复位时间内不再次识别的时间</p> <p>The UI displays prompt information and the time when the same person does not recognize again within the verification reset time</p> |
| Wiegand | int (optional) | 0~1 or 4~7 | <p>韦根协议类型。</p> <p>Wigan protocol type.</p> <p>0: 26 位</p> <p>0: 26 bits</p> <p>1: 34 位</p> |

| | | | |
|-----------------|-------------------|-----|---|
| | | | 1: 34 bits 4:26 位(8+16): facility code+userid(设备代码+卡号); 4:26 digits (8+16): facility code+userid (equipment code+card number); 5:34 位(8+24); 5:34 bits (8+24); 6:26 位(8+16 分开填写); 6:26 digits (8+16 are filled separately); 7:34 位(8+24 分开填写) 7:34 digits (8+24 are filled separately) |
| PublicMjCardNo | int (optional) | | 公用门禁卡号 Public access control card number |
| AutoMjCardBgnNo | int (optional) | | 自动生成门禁卡号的开始卡号 Automatically generate the starting card number of the access control card number |
| AutoMjCardEndNo | int (optional) | | 自动生成门禁卡号的结束卡号 Automatically generate the end card number of the access control card number |
| ControlType | int (optional) | 0~2 | 控制开门接口方式。 Control the way of opening the door interface. 0:韦根接口 0: Wigan interface 1:开关量 1. switching value 2: 韦根接口+开关量 |

| | | | |
|---------------|-------------------|--------------------------------|---|
| | | | 2: Wigan interface+switching value |
| IOType | int (optional) | 0~1 | 控制开门接口方式时开门动作。 Open the door when controlling the opening interface mode. 0:闭合 0: closed 1:断开 1: disconnected |
| IOStayTime | int (optional) | 默认 200(ms) Default 200(ms) | 保持时间(ms) Hold time (ms) |
| Endian | int (optional) | 0~1 | 卡号大小端读卡模式 Card number reading mode at large and small end 0:大端模式 0: big end mode 1:小端模式 1: Small-end mode |
| CardMode | int (optional) | 0~1 | 卡号方式 Card number method 0:十进制 0: decimal 1:十六进制 1: hexadecimal |
| IsOutFF | int (optional) | 0~1 | 陌生人韦根输出 8 个 F(韦根开门) Stranger Wigan outputs 8 F (Wigan opens the door) 0: 不输出 0: do not output 1: 输出 1: output |
| SnapResetTime | int (optional) | 0-15(默认 0) 0-15 (default 0) | 识别间隔时间(s):比对通过后等待 时间识别下一个人 Identification interval time (s): |

| | | | |
|--------|--|--|---|
| | | | identify the next person by comparing the waiting time after passing the comparison |
| result | | | 操作结果,成功: “ok” /失败: “fail” Operation result, success: "OK" or "failure" |
| detail | | | 失败时返回的原因 The reason returned on failure |

9.3.1 获取开门条件及输出控制

9.3.1 acquisition of door opening conditions and output control

e.g.,

```
{
  "operator": "GetDoorconfig",
  "messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "info":
    {
      █
    }
}
```

9.3.2 获取开门条件及输出控制返回

9.3.2 obtain door opening conditions and output control return

e.g.,

```
{
  █
}
```

```
"messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
```

```
■
```

```
"operator":
```

```
"GetDoorconfig-Ack",
```

```
"info":
```

```
■
```

```
{
```

```
■
```

```
"facesluiceId":"1305433",
```

```
■
```

```
"OpendoorWay":"0",
```

```
"FaceThreshold":"90",
```

```
"IDCardThreshold":"50",
```

```
"VerifyMode":"1",
```

```
"VerifyResetTime":"2",
```

```
"Wiegand":"0",
```

```
"PublicMjCardNo":"2",
```

```
"AutoMjCardBgnNo":"3",
```

```
"AutoMjCardEndNo":"4",
```

```
"ControlType":"1",
```

```
"IOType":"1",
```

```
"IOStayTime":"200",
```

```
"Endian":"0",
```

```
"CardMode":"0",
```

```
"IsOutFF":"0",
```

```
"SnapResetTime":"0",
```

```
"result":"ok"
```

```
}
```

```
■
```

```
}
```

9.3.3 设置开门条件及输出控制

9.3.3 setting door opening conditions and output control

e.g.1,

```
{
```

```
"operator": "UpDoorconfig",
```

```
"messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
"info":
{
  █
  "OpendoorWay":"0",
  █
  "FaceThreshold":"90",
  █
  "IDCardThreshold":"50",
  █
  "VerifyMode":"1",
  █
  "VerifyResetTime":"2",
  █
  "Wiegand":"0",
  █
  "PublicMjCardNo":"2",
  █
  "AutoMjCardBgnNo":"3",
  █
  "AutoMjCardEndNo":"4",
  █
  "ControlType":"1",
  █
  "IOType":"1",
  █
  "IOStayTime":"200",
  █
  "Endian":"0",
  █
  "CardMode":"0",
  "IsOutFF":"1",
  "SnapResetTime":"0"

}
}
```

e.g.2,更改黑白名单验证门限值

e. G.2, change the black and white list verification threshold value

```
{
"operator": "UpDoorconfig",
"messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXX",
"info":
{
  ■
  "FaceThreshold": "91"
}
}
```

e.g.3,支持口罩检测版本，更改开门验证方式为 单独口罩验证通行

e. G.3, support the mask detection version, and change the door opening verification mode to separate mask verification

```
{
"operator": "UpDoorconfig",
"messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXX",
"info":
{
  ■
  "VerifyMode": "261"
}
}
```

e.g.4,支持口罩+测温检测版本，更改开门验证方式为 口罩+体温+白名单验证

e. G.4, support mask + temperature detection version, change the door opening verification mode to mask + body temperature + white list verification

```
{
"operator": "UpDoorconfig",
"messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXX",
"info":
{
  ■
  "VerifyMode": "769"
}
}
```

9.3.4 设置开门条件及输出控制返回

9.3.4 setting door opening conditions and output control return

e.g.,

```
{  
  "messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",  
  "operator": "UpDoorconfig-Ack",  
  "info": {  
    "facesluiceId": "1305433",  
    "result": "ok"  
  }  
}
```

9.3.5 开门方式简介

9.3.5 introduction to door opening mode

目前人脸识别一体机支持以下几种开门方式:人脸开门方式、远程开门方式、远程开门或人脸方式、人脸核验+远程开门方式。

At present, face recognition all-in-one machine supports the following opening modes: face opening mode, remote door opening mode, remote door opening or face opening mode, face verification + remote door opening mode.

0: 人脸开门方式: 人脸识别一体机会推送陌生人抓拍信息和认证比对信息, 在比对通行后直接执行开门及 UI 提示信息, 这个模式下, 调用远程开门指令将无效。

0: face opening mode: face recognition integrated opportunity to push the stranger snapshot information and authentication comparison information, and directly execute the door opening and UI prompt information after the comparison. In this mode, calling the remote door opening command will be invalid.

1: 远程开门方式: 人脸识别一体机只推送陌生人抓拍信息, 不推送认证比对信息, 比对通过不会直接执行开门和 UI 信息提示, 这个模式下, 可以调用远程开门指令, 此模式主要用于前端抓拍, 后端比对, 后端执行远程开门。

1: Remote door opening mode: the all-in-one face recognition machine only pushes the snapshot information of strangers, but does not push the authentication comparison information. If the comparison is passed, it will not directly execute the door opening and UI information prompt. In this mode, the remote door opening command can be called. This mode is mainly used for front-end snapshot, back-end comparison, and remote door opening at the back-end.

2: 远程开门或人脸方式: 人脸识别一体机会推送陌生人抓拍信息和认证比对信息, 在比对通行后直接执行开门及 UI 提示信息, 此模式下, 可以调用远程开门指令。

2: Remote door opening or face mode: face recognition integration can push the stranger snapshot information and authentication comparison information, and directly execute the door opening and UI prompt information after the comparison. In this mode, the remote door opening command can be called.

3: 人脸核验+远程开门方式: 人脸识别一体机会推送陌生人抓拍信息和认证比对信息, 比对通过不会直接执行开门和 UI 信息提示。此模式需要 MQTT 设置在断网续传模式下, 且开启识别记录上传配合使用。此时人脸识别一体机在比对通行的情况下, 将认证比对信息推送至 MQTT 订阅的云地址(云平台), 云平台需要在收到认证订阅的推送信息后, 再回复断网续传数据确认包里面直接带上开门和提示信息, 一体机直接执行开门和 UI 信息提示, 不需要调用远程开门指令。此模式下需要注意排除推送的认证数据是否是断网续传的认证比对数据, 如果是断网续传的数据的认证数据, 则回复的数据包不需要再次执行开门动作。此模式可能会因为网络问题和交互数据所占用时间问题, 导致不能及时开门, 存在一定延时性。

3: Face verification + remote door opening mode: the face recognition integration opportunity pushes the stranger snapshot information and authentication comparison information, and the door opening and UI information prompt will not be executed directly after the comparison. In this mode, mqtt should be set in the mode of continuous transmission after network interruption, and identification record upload should be enabled. At this time, the face recognition all-in-one machine can be compared with the current situation, Push the authentication

comparison information to the cloud address (cloud platform) of mqtt subscription. After receiving the push information of authentication subscription, the cloud platform needs to reply to the data confirmation package of network disconnection and continuous transmission. The all-in-one machine directly executes the door opening and UI information prompt, and does not need to call the remote door opening command. In this mode, it is necessary to pay attention to exclude whether the authentication data pushed is authentication comparison data of network disconnection and continuous transmission. If it is the authentication data of data transmission after disconnection, the returned data packet does not need to perform the open door action again. This mode may not open the door in time due to network problems and the time consumed by interactive data, and there is a certain delay.

采用人脸核验+远程开门方式回复开启断网续传时接收到认证记录的信息确认包举例：

Face verification + remote door opening mode is used to reply the information confirmation package received when the network is disconnected for continuous transmission

参数信息 (注: optional 为可选项)：

Parameter information (Note: optional is optional)

| Key | Type | Values | Description |
|----------------|------|--------|---|
| PushAckType | int | 2 | 2:回复接收到认证记录信息 2: Reply received authentication record information |
| SnapOrRecordID | int | | PushAckType=2;填接收到的控制记录库 ID PushAckType=2;Fill in the received control record library ID |
| openDoor | int | 0~1 | 开门动作 |

| | | | |
|----------|----------------------|--|--|
| | (optional) | | Door opening action 0: 不开门 0: don't open the door 1: 开门 1: Open the door |
| showInfo | String (optional) | 64 字节(包含结束符) 64 bytes (including terminator) | UI 提示信息 UI prompt information |

e.g.1,回复需要开门+UI 提示信息

e. G.1, reply to need to open the door + UI prompt message

```
{
  "messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "operator": "PushAck",
  "info": {
    "PushAckType":"2",
    "SnapOrRecordID":"381",
    "openDoor": "1",
    "showInfo": "XXX 请通行"
  }
  "Showinfo": "XXX please pass"
}
```

e. g. 2, 回复不需要开门+UI 提示信息

e. G.2, reply does not need to open the door + UI prompt message

```
{
  "messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "operator": "PushAck",
  "info": {
    "PushAckType":"2",
    "SnapOrRecordID":"382",
    "openDoor": "0",
    "showInfo": "无权限通行"
  }
  "Showinfo": "access without permission"
}
```

9.4 HTTP 订阅推送

9.4 HTTP subscription push

HTTP 订阅推送主要是关于 HTTP 订阅推送的参数设置, 设置好对应的订阅服务器地址、端口和订阅内容, 人脸识别一体机将把对应数据上传至对应的服务器。HTTP 订阅推送的类型包括: 认证结果信息的订阅、陌生人抓拍订阅等。开启断点续传功能, 则推送的陌生人抓拍信息和认证信息需要服务器返回数据包 {"code":200,"desc": "OK",}。

HTTP subscription push is mainly about the parameter setting of HTTP subscription push. After setting the corresponding subscriber address, port and subscription content, the face recognition all-in-one machine will upload the corresponding data to the corresponding server. The types of HTTP subscription push include: authentication result information subscription, stranger snapshot subscription, etc. Open the function of continuous transmission of breakpoints, The server needs to return packets {"code": 200, "desc": "OK",} for the pushed stranger snapshot information and authentication information.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|----------|------|---|--|
| operator | | GetHTTPconfig/ UpHTTPconfig/ GetHTTPconfig-Ack/ UpHTTPconfig-Ack | 获取/设置 HTTP 订阅推送 Get / set HTTP subscription push 获取/设置 HTTP 订阅推送返回信息 Get / set HTTP subscription push return information |
| info | | | 具体内容 Specific content |

| | | | |
|--------------|------|-----|---|
| facesluiceId | char | | 人脸识别一体机 id Face recognition integrated machine id |
| ProtocolType | int | 0~1 | HTTP 协议类型(只支持获取,不支持设置) HTTP protocol type (only supports getting, not setting) 0:局域网 0: LAN 1:广域网 1: Wan |
| ServerAddr | char | | 服务器地址, e.g.,192.168.2.11 Server address, e.g., 192.168.2.11 |
| ServerPort | int | | 服务器端口, e.g.,80 Server port, e.g., 80 |
| Verify | int | 0~4 | 认证结果订阅 Authentication result subscription 0:不订阅 0: do not subscribe 1:订阅认证结果上报(只带抓拍图片) 1: Subscription authentication result report (only with captured pictures) 2: 订阅认证结果上报(只带注册图片) 2: Subscription authentication result report (only with registration image) 3: 订阅认证结果上报(抓拍+注册图片) 3: Subscription authentication result reporting (snapshot + registration image) 4: 订阅认证结果上报(不带图片) 4: Subscription authentication result |

| | | | |
|-----------|------|-----|---|
| | | | report (without picture) |
| VerifyURL | char | | 认证结果订阅 URL,默认: :/Subscribe/Verify The authentication result subscription URL, the default is / subscribe / verify |
| Snap | int | 0~1 | 陌人生抓拍订阅 Snapshot subscription of stranger life 0:不订阅 0: do not subscribe 1:订阅陌生人抓拍上报 1: Subscribe to stranger snapshot Report |
| SnapURL | char | | 陌人生抓拍订阅 URL,默认: :/Subscribe/Snap Subscription URL for snapshot of strangers, default to / subscribe / snap |
| QRCode | int | 0~1 | 二维码上报订阅 QR code report subscription 0:不订阅 0: do not subscribe 1:订阅二维码上报 1: Subscribe to QR code report |
| QRCodeURL | char | | 二维码上报订阅 URL,默认: :/Subscribe/QRCode QR code submit subscription URL, default is / subscribe / QRcode |
| IDCard | int | 0~1 | 身份证信息上报订阅 |

| | | | |
|--------------|------|-----|--|
| | | | ID card information reporting subscription 0:不订阅 0: do not subscribe 1:订阅身份证信息上报 1: Subscription ID card information reporting |
| IDCardURL | char | | 身份证信息上报订阅 URL,默认:/Subscribe/IDCard ID card information reporting subscription URL, default is / subscribe / IDcard |
| WGCard | int | 0~1 | 韦根卡信息上报订阅 Weigenka information reporting subscription 0:不订阅 0: do not subscribe 1:订阅信息上报 1: Subscription information reporting |
| WGCardURL | char | | 韦根卡信息上报订阅 URL,默认:/Subscribe/WGorRFCard Wegenka information reporting subscription URL, default is / subscribe / wgorrfccard |
| BeatInterval | int | 30 | 心跳间隔 heartbeat interval |
| BeatURL | char | | 心跳 URL,默认:/Subscribe/heartbeat Heartbeat URL, default / subscribe / heartbeat |
| TimedPush | int | 0~1 | 定时推送 Timing push 0:不启用 0: not enabled |

| | | | |
|----------------------|--------------------|-----|---|
| | | | 1:启用 1: Enable |
| PushInterval | int | | 定时推送间隔（秒） Timing push interval (seconds) |
| Auth | int | 0~1 | Post 提交上报信息时是否要进行认证 Do post submit the submitted information for authentication 0：不需要认证处理 0: no authentication processing is required 1：post 基本认证 1: Post basic authentication |
| User | char (optional) | | 用户名，最大长度 64 个字符长度（含结束符） User name, maximum length 64 characters (including terminator) Auth=1 时必填 Required when auth = 1 |
| Pwd | char (optional) | | 密码，最大长度 64 个字符长度（含结束符） Password, maximum length 64 characters (including terminator) Auth=1 时必填 Required when auth = 1 |
| ResumefromBreakpoint | int | 0~1 | HTTP 订阅推送是否开启 断点续传（开启陌生人抓拍订阅或者认证订阅模式下）， 0:不开启 1:开启。不开启断点续传功能，只保证推送数据，可能存在丢失数据，不需要服务器返回。开启功能，则推送的陌生人抓拍信息和认证信息需要服务器返回以下 json 数据包:{"code": 200,"desc": "OK"},} Whether HTTP subscription push |

| | | | |
|---------------|--------------------|---|--|
| | | | <p>enables breakpoint continuation (in the mode of stranger snapshot subscription or authentication subscription), 0: not enabled, 1: enabled. Do not turn on the breakpoint continuation function, only ensure the push data, there may be lost data, do not need the server to return. If the function is enabled, the server should return the following JSON packets: {"code": 200,</p> <p>10 秒后一体机未接收到服务器正确数据包，则继续推送这条信息。</p> <p>After 10 seconds, if the all-in-one machine does not receive the correct data packet from the server, it will continue to push this message.</p> |
| RFBPTimeBegin | char (optional) | <p>YYYY-MM-DD 空格 hh:mm:ss</p> <p>Yyyy-mm-dd space HH:mm: SS</p> | <p>断点续传默认起始时间,可以不填写。默认为设置陌生人抓拍订阅或认证订阅以及开启断点续传功能的时间。当断点之前的陌生人抓拍和认证抓拍信息推送完成的情况下，此时间会变为完成断点续传推送的时间。e.g., 2018-03-12 09:10:00</p> <p>The default start time of breakpoint continuation can be left blank. The default is to set the time for stranger snapshot subscription, authentication subscription and breakpoint continuation function. When the stranger snapshot and authentication</p> |

| | | | |
|--------|--|--|--|
| | | | snapshot information push before the breakpoint is completed, this time will become the time to complete the breakpoint continuous transmission and push.e.g., 2018-03-12 09:10:00 |
| detail | | | 失败时返回的原因 The reason returned on failure |

9.4.1 获取 HTTP 订阅推送参数

9.4.1 get HTTP subscription push parameters

e.g.,

```
{
  "operator": "GetHTTPconfig",
  "messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "info":
    {
      █
    }
}
```

9.4.2 获取 HTTP 订阅推送参数返回

9.4.2 get HTTP subscription push parameter return

e.g.,

```
{
  █
  "messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  █
  "operator": "GetHTTPconfig-Ack",
  "info":
    {
      █
    }
}
```

```

"facesluiceId":"1306612",
"ServerAddr":"172.168.2.89",
"ServerPort":"80",
"Verify":"1",
"VerifyURL":"/Subscribe/Verify",
"Snap":"1",
"SnapURL":"/Subscribe/Snap",
"QRCode":"1",
"QRCodeURL":"/Subscribe/QRCode",
"IDCard":"1",
"IDCardURL":"/Subscribe/IDCard",
"BeatInterval":"30",
"BeatURL":"/Subscribe/HeartBeat",
"TimedPush":"0",
"PushInterval":"30",
"Auth":"0",
"UserName":"admin",
"PassWord":"admin",
"ResumefromBreakpoint":"1",
"RFBPTimeBegin":"2020-1-3 18:11:40",
"result":"ok"
}
}

```

9.4.3 设置 HTTP 订阅推送参数

9.4.3 Set HTTP subscription push parameters

e.g.1,设置 HTTP 订阅推送 认证比对(带抓拍图片)+陌生人抓拍结果上报+开启断点续传

e. G.1, set HTTP subscription push authentication comparison (with snapshot picture) + stranger

snapshot result report + open breakpoint continuation

```

{
"messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
"operator": "UpHTTPconfig",
"info":

```

```
{  
  █  
  "ServerAddr":"172.168.2.89",  
  "ServerPort":"80",  
  █  
  "Verify":"1",  
  █  
  "VerifyURL":"/Subscribe/Verify",  
  █  
  "Snap":"1",  
  █  
  "SnapURL":"/Subscribe/Snap",  
  █  
  "QRCode":"0",  
  "QRCodeURL":"/Subscribe/QRCode",  
  █  
  "IDCard":"0",  
  "IDCardURL":"/Subscribe/IDCard",  
  █  
  "BeatInterval":"30",  
  █  
  "BeatURL":"/Subscribe/HeartBeat",  
  █  
  "TimedPush":"0",  
  █  
  "PushInterval":"30",  
  █  
  "Auth":"0",  
  █  
  "UserName":"admin",  
  █  
  "PassWord":"admin",  
  █  
  "ResumefromBreakpoint":"1"  
}
```

```
}
```

e.g.2,取消 HTTP 所有订阅推送

e. G.2, cancel all HTTP subscription push

```
{
```

```
"messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
```

```
"operator": "UpHTTPconfig",
```

```
"info":
```

```
{
```

```
"ServerAddr": "172.168.2.89",
```

```
"ServerPort": "80",
```

```
"Verify": "0",
```

```
"VerifyURL": "/Subscribe/Verify",
```

```
"Snap": "0",
```

```
"SnapURL": "/Subscribe/Snap",
```

```
"QRCode": "0",
```

```
"QRCodeURL": "/Subscribe/QRCode",
```

```
"IDCard": "0",
```

```
"IDCardURL": "/Subscribe/IDCard",
```

```
"BeatInterval": "30",
```

```
"BeatURL": "/Subscribe/HeartBeat",
```

```
    "TimedPush":"0",
    "PushInterval":"30",
    "Auth":"0",
    "UserName":"admin",
    "PassWord":"admin",
    "ResumefromBreakpoint":"1"
  }
}
```

9.4.4 设置 HTTP 订阅推送参数返回

9.4.4 Set HTTP subscription push parameters to return

```
{
  "messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "operator": "UpHTTPconfig-Ack",
  "info":
  {
    "facesluiceId":"1306612",
    "result":"ok"
  }
}
```

9.5 温度参数

9.5 temperature parameters

温度参数主要是涉及到支持温度检测的机器型号人脸识别一体机的温度运行参数，才支持此项参数。

The temperature parameter mainly relates to the temperature operation parameter of the machine model face recognition integrated machine that supports temperature detection, and only supports this parameter.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|------------------|--------|---|--|
| operator | | GetTPTconfig/ UpTPTconfig/ GetTPTconfig-Ack/ UpTPTconfig-Ack | 获取/设置温度参数 Get/set temperature parameter 获取/设置温度参数返回 Get/set temperature parameter return |
| info | | | 具体内容 Specific content |
| facesluiceId | String | | 人脸识别一体机 id Face recognition integrated machine id |
| TemperatureMode | int | 0~1 | 温度显示模式 Temperature display mode 0: 摄氏温度 0: Celsius temperature 1:华氏温度 1: Fahrenheit temperature |
| ShowAbnormalTemp | int | 0~1 | 显示异常温度 Display abnormal temperature 0: 不显示 0: do not display |

| | | | |
|------------------|----------------------|---|--|
| | | | 1:显示 1: display |
| TemperatureCheck | double | 0.00 | 温度校准度 Temperature calibration degree |
| TemperatureLow | double | 34.00(C 款默认); 34.00 (default in Section C); 28.00(除 C 款外默认) 28.00 (default except for paragraph c) | 低温阈值 Low temperature threshold |
| TempAutoLow | int (optional) | 0~1(默认值 1) 0~1 (the default value is 1) | 自动调整低温阈值: (特殊版本支持) Automatic adjustment of low temperature threshold: (supported by special version) 0: 否 0: no 1: 是 1: yes |
| TempWay | int (optional) | 0~1 | 测温模式: (特殊机型支持) Temperature measurement mode: (supported by special models) 0: 精准模式 0: precision mode 1: 快速模式 1. fast mode |
| BDHC | double (optional) | 40.00 | BDHC: (特殊机型支持) BDHC: (supported by special models) |
| BDLC | double (optional) | 28.00 | BDLC: (特殊机型支持) BDLC: (supported by special models) |
| TemperatureHigh | double | 37.30 | 高温阈值(默认:37.30) |

| | | | |
|---------------------|-------------------|---------|---|
| | | | High temperature threshold (default: 37.30) |
| EnvTemperature | double (optional) | | 环境温度（预留） Ambient temperature (reserved) |
| EnvTemperatureCheck | double (optional) | | 环境温度校准值（预留） Ambient temperature calibration value (reserved) |
| OpenLaser | int (optional) | 0~1 | 是否打开激光（预留） Turn on laser (reserved) |
| TempFaceMinW | int | 100~500 | 测温最小人脸识别像素宽度；限定测温距离, 值越小测温识别距离越远(默认 350) Minimum face recognition pixel width for temperature measurement; Limit the temperature measurement distance. The smaller the value, the farther the temperature measurement recognition distance is (default 350) |
| TempFaceMinH | int | 50~1000 | 测温最小人脸识别像素高度；限定额头高度, 值越小越往上, 识别区域越小, 值越大识别区域越大（默认 560） Minimum face recognition pixel height for temperature measurement; Limit forehead height, the smaller the value, the higher the recognition area, and the larger the value, the larger the recognition area (default 560) |

| | | | |
|--------|--|--|--|
| result | | | 操作结果,成功: “ok” /失败: “fail” Operation result, success: "OK" or "failure" |
| detail | | | 失败时返回的原因 The reason returned on failure |

9.5.1 获取温度参数

9.5.1 Obtain temperature parameters

e.g.,

```
{  
  "operator": "GetTPTconfig",  
  "messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",  
  "info":  
    {  
        
    }  
}
```

9.5.2 获取温度参数返回

9.5.2 Get the temperature parameter and return it

e.g.,

```
{  
    
  "messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",  
    
  "operator": "GetTPTconfig-Ack",  
  "info":  
    {  
        
      "facesluiceId": "1305433",  
      "TemperatureCheck": "0.00",  
    }  
}
```

```
"TemperatureHigh":"37.20",
"EnvTemperature":"17.00",
"EnvTemperatureCheck":"0.00",
"OpenLaser":"1",
"Distance":"350",
"result":"ok"
}
■
}
```

9.5.3 设置温度参数

9.5.3 Setting temperature parameters

e.g.,

```
{
"operator": "UpTPTconfig",
"messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
"info":
{
■
"facesluiceId":"1305433",
"TemperatureCheck":"0.00",
■
"TemperatureHigh":"37.20",
■
"EnvTemperature":"17.00",
■
"EnvTemperatureCheck":"0.00",
■
"OpenLaser":"1",
■
"Distance":"350"
}
}
```

9.5.4 设置温度参数返回

9.5.4 Set the temperature parameter to return

e.g.,

```
{
  "messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "operator": "UpTPTconfig-Ack",
  "info": {
    "facesluiceId": "1305433",
    "result": "ok"
  }
}
```

9.6 MQTT 上报参数

9.6 MQTT reporting parameters

MQTT 上报参数主要涉及的是关于设置是否推送陌生人抓拍信息推送和认证识别信息推送的相关设置等。

MQTT reporting parameters mainly relate to setting whether to push strangers' snapshot information and authentication identification information.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|----------|------|---|---|
| operator | | GetMQTTconfig/ UpMQTTconfig/ GetMQTTconfig-Ack/ UpMQTTconfig-Ack | 获取/设置 MQTT 上报参数 Get/set MQTT reporting parameters 获取/设置 MQTT 上报参数返回 |

| | | | |
|--------------------|--------|-----|--|
| | | | Get/set MQTT report parameter return |
| info | | | 具体内容 Specific content |
| facesluiceId | String | | 人脸识别一体机 id Face recognition integrated machine id |
| MQAddr | String | | MQTT 云地址, <64(特殊版本支持) MQTT cloud address, < 64 (supported by special version) |
| MQPort | int | | MQTT 云端口(特殊版本支持) MQTT cloud port (supported by special version) |
| MQUser | String | | 云端用户名, <64(特殊版本支持) Cloud user name, < 64 (supported by special version) |
| MQPwd | String | | 云端密码, <128(特殊版本支持) Cloud password, < 128 (supported by special version) |
| MQTopic | String | | 设备订阅的话题, <64(特殊版本支持) Topic of device subscription, < 64 (supported by special version) |
| StrangerUploadType | int | 0~1 | 陌生人抓拍信息上传 (默认:0) Upload the information captured by strangers (default: 0) 0: 上传 0: upload 1: 不上传 1: do not upload |
| RecordUploadType | int | 0~2 | 认证识别信息上传 (默认:1) Upload authentication identification |

| | | | |
|-----------|-----|-----|---|
| | | | <p>information (default: 1)</p> <p>0:不上传</p> <p>0: do not upload</p> <p>1:识别记录上传带抓拍图片</p> <p>1. identification record upload with snap pictures</p> <p>2:识别记录上传不带抓拍带图片</p> <p>2. Do not take pictures when uploading identification records</p> |
| Direction | int | 0~2 | <p>一体机进出口方向</p> <p>Import and export direction of integrated machine</p> <p>0:进口</p> <p>0: import</p> <p>1:出口</p> <p>1: exit</p> <p>2:无方向</p> <p>2. No direction</p> |
| QRCode | int | 0~1 | <p>二维码扫码结果上传（默认:0）</p> <p>Upload QR code scanning result (default: 0)</p> <p>0: 不上传</p> <p>0: do not upload</p> <p>1: 上传</p> <p>1: upload</p> |
| IDCard | int | 0~1 | <p>身份证信息上传（默认:1）</p> <p>Upload ID card information (default: 1)</p> <p>0: 不上传</p> <p>0: do not upload</p> <p>1: 上传</p> <p>1: upload</p> |
| Card | int | 0~1 | <p>IC 或 RF 卡号上报（默认:1）</p> |

| | | | |
|----------------------|-----|-----|--|
| | | | <p>Report IC or RF card number</p> <p>(default: 1)</p> <p>0: 不上传</p> <p>0: do not upload</p> <p>1: 上传</p> <p>1: upload</p> |
| ResumefromBreakpoint | int | 0~1 | <p>MQTT 陌生人抓拍信息和识别记录是否开启 断点续传（开启陌生人抓拍上传或者识别记录上传模式下）,0:不开启 1:开启。不开启断点续传功能，只保证推送数据，不需要平台(云服务器)返回。开启功能，则推送的陌生人抓拍信息和认证信息需要服务器返回，具体见 9.7 断网续传说明</p> <p>Whether MQTT stranger capture information and identification records are enabled for breakpoint retransmission (in the mode of uploading stranger capture or identification records), 0: not enabled, 1: enabled. Do not turn on the breakpoint continuous transmission function, only guarantee the push of data, and do not need the platform (cloud server) to return.</p> <p>When the function is turned on, the pushed stranger snapshot information and authentication information need to be returned by the server, see 9.7.</p> <p>Description of disconnection and continuous transmission</p> |

| | | | |
|-----------|--------------------|---------------------|--|
| | | | <p>10 秒后一体机未接收到服务器正确数据包，则继续推送这条信息。</p> <p>After 10 seconds, if the all-in-one machine does not receive the correct data packet from the server, it will continue to push this message.</p> |
| BeginTime | char (optional) | YYYY-MM-DDThh:mm:ss | <p>MQTT 断点续传默认起始时间,可以不填写。默认为设置陌生人抓拍上传或者识别记录上传以及开启断点续传功能的时间。当断点之前的陌生人抓拍和认证记录信息推送完成的情况下，此时间会变为完成断点续传推送的时间。e.g., 2020-04-01T09:10:00</p> <p>The default start time of MQTT breakpoint continuation can be left blank. The default is to set the time for uploading strangers' snap shots or identification records, and opening the breakpoint resume function.</p> <p>When the strangers before the breakpoint are snapped and the authentication record information is pushed, this time will become the time to complete the breakpoint transmission and push. e.g., 2020-04-01T09:10:00</p> |
| ReConnect | int | 0~1 | <p>机器是否需要重连服务（预留）</p> <p>Does the machine need reconnection service (reservation)</p> <p>0: 不需要</p> <p>0: not needed</p> <p>1: 需要</p> |

9.6.2 获取 MQTT 上报参数返回

9.6.2 Get the MQTT report parameters and return them

e.g.,

```
{
  "messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "operator": "GetMQTTconfig-Ack",
  "info": {
    "facesluiceId":"1306612",
    "StrangerUploadType":"0",
    "RecordUploadType":"2",
    "Direction":"0",
    "ResumefromBreakpoint":"1",
    "BeginTime": "2020-03-31T15:31:39",
    "result":"ok"
  }
}
```

9.6.3 设置 MQTT 上报参数

9.6.3 Setting MQTT reporting parameters

e.g.1, 设置为开启断网续传, 陌生人抓拍上报+认证记录上报(不带认证图片)

E.g.1, set to turn on the disconnection and continuous transmission, and report by strangers+report by authentication records (without authentication pictures)

```
{
  "operator": "UpMQTTconfig",
  "messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "info":
    {
      "facesluiceId":"1305433",
      ■
      "StrangerUploadType":"0",
      "RecordUploadType":"2",
      "ResumefromBreakpoint":"1",
      "Direction":"1",
    }
}
```

e.g.2, 设置为不启用断网续传，认证记录上报(带认证图片)

E.g.2, set to not open the disconnection and continuous transmission, and report the authentication record (with authentication picture)

```
{
"operator": "UpMQTTconfig",
"messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
"info":
{
"facesluiceId": "1305433",
█
"StrangerUploadType": "1",
"RecordUploadType": "2",
█
"ResumefromBreakpoint": "0",
"Direction": "1",
█
}
}
```

9.6.4 设置 MQTT 上报参数返回

9.6.4 Set the MQTT report parameters to return

e.g.,

```
{
█
"messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
█
"operator": "UpMQTTconfig-Ack",
"info":
█
{
█
"facesluiceId": "1305433",
█
"result": "ok"
}
}
```

```
}
```

9.7 重启设备

9.7 Restart the equipment

重启设备指令将重启设备。

The restart device command will restart the device.

| Key | Type | Values | Description |
|--------------|------|-----------------------------------|--|
| operator | | RebootDevice/ RebootDevice-Ack | RebootDevice:重启设备 RebootDevice: Reboot the device RebootDevice-Ack:重启设备返回 RebootDevice-Ack: Rebootdevice returns |
| info | | | 具体内容 Specific content |
| facesluiceId | char | | 人脸识别一体机 id Face recognition integrated machine id |
| result | | | 操作结果,成功: “ok” /失败: “fail” Operation result, success: "OK" or "failure" |
| detail | | | 失败时返回的原因 The reason returned on failure |

9.7.1 重启设备

9.7.1 Restart the equipment

e.g.,

```
{  
"operator": "RebootDevice",  
"messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
```

```
"info":
{
█

}
}
```

9.7.2 重启设备返回

9.7.2 Restart the equipment to return

e.g.,

```
{
"operator": "RebootDevice-Ack",
"messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
"info":
{
█

"facesluiceId":"1305433",
█

"result":"ok"
}
}
```

9.8 系统时间

9.8 system time

系统时间主要是涉及人脸识别一体机的系统运行时间。

System time mainly relates to the system running time of the face recognition integrated machine.

| Key | Type | Values | Description |
|----------|------|---|---|
| operator | | GetSysTime/ GetSysTime-Ack/ SetSysTime/ SetSysTime-Ack | GetSysTime:获取系统时间 GetSysTime: get the system time GetSysTime-Ack:获取系统时间返回 |

9.8.2 获取系统时间返回

9.8.2 Get the system time to return

e.g.,

```
{  
  "messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",  
  "operator": "GetSysTime-Ack",  
  "info": {  
    "facesluiceId":"1306612",  
    "SysTime":"2020-4-2T18:59:54",  
    "result":"ok"  
  }  
}
```

9.8.3 设置系统时间

9.8.3 Set the system time

e.g.,

```
{  
  "messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",  
  "operator": "SetSysTime",  
  "info": {  
    "SysTime":"2020-4-1T17:59:54"  
  }  
}
```

9.8.4 设置系统时间返回

9.8.4 Set the system time to return

e.g.,

```
{  
  "messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",  
  "operator": "SetSysTime-Ack",  
  "info": {  
    "facesluiceId":"1306612",  
    "result":"ok"  
  }  
}
```


}

9.9 恢复出厂

9.9 Restore the factory

恢复出厂主要涉及开门条件、声音设置、网络参数、抓拍记录、日志记录、人员名单库、控制记录、系统参数等参数恢复。恢复网络参数将有可能导致网络连接不通等问题；恢复出厂人员名单库会删除人员名单比对底库，同时会删除控制记录对应的认证人员图像；**恢复出厂控制记录会删除控制记录，不可逆操作，谨慎操作**；只需要恢复某一项则不需要设置其他选项恢复出厂。

The factory restoration mainly involves the restoration of door opening conditions, sound settings, network parameters, snapshot records, log records, personnel list database, control records, system parameters and other parameters. Restoring network parameters may lead to problems such as network connection failure; Restoring the factory personnel list database will delete the personnel list comparison database, At the same time, the Certification staff image corresponding to the control record will be deleted; Restoring the factory control record will delete the control record, irreversible operation, careful operation; You only need to restore one item, but you don't need to set other options to restore the factory.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|--------------|------|---|--|
| operator | | SetFactoryDefault/ SetFactoryDefault-Ack | SetFactoryDefault:恢复出厂 SetFactoryDefault: restore the factory SetFactoryDefault-Ack: 恢复出厂 返回 SetFactoryDefault-Ack: restore factory return |
| info | | | 具体内容 Specific content |
| facesluiceId | char | | 人脸识别一体机 id |

| | | | |
|------------------|--------------------------------|-----|---|
| | | | Face recognition integrated machine id |
| DefaultDoorSet | unsigned char (optional) | 0~1 | 开门条件是否恢复出厂 Is the door opening condition restored to the factory 0: 不恢复出厂 0: do not restore the factory 1: 恢复出厂 1: Restore the factory |
| DefaultSoundSet | unsigned char (optional) | 0~1 | 声音设置是否恢复出厂 Is the sound setting restored to the factory 0: 不恢复出厂 0: do not restore the factory 1: 恢复出厂 1: Restore the factory |
| DefaultNetPar | unsigned char (optional) | 0~1 | 网络参数是否恢复出厂 Are the network parameters restored to the factory 0: 不恢复出厂 0: do not restore the factory 1: 恢复出厂 1: Restore the factory |
| DefaultCenterPar | unsigned char (optional) | 0~1 | 中心连接参数是否恢复出厂 Are the center connection parameters restored to the factory 0: 不恢复出厂 0: do not restore the factory 1: 恢复出厂 1: Restore the factory |
| DefaultCapture | unsigned char (optional) | 0~1 | 抓拍记录+控制记录是否恢复出厂 Whether the snap record+control record is restored to the factory |

| | | | |
|-----------------------|--------------------------|-----|---|
| | | | 0: 不恢复出厂 0: do not restore the factory 1: 恢复出厂 1: Restore the factory |
| DefaultLog | unsigned char (optional) | 0~1 | 日志记录是否恢复出厂 Is the logging restored to the factory 0: 不恢复出厂 0: do not restore the factory 1: 恢复出厂 1: Restore the factory |
| DefaultPerson | unsigned char (optional) | 0~1 | 人员名单库+控制记录是否恢复出厂 Whether the personnel list database+control records are restored to the factory 0: 不恢复出厂 0: do not restore the factory 1: 恢复出厂 1: Restore the factory |
| DefaultRecord | unsigned char (optional) | 0~1 | 控制记录是否恢复出厂 Is the control record restored to the factory 0: 不恢复出厂 0: do not restore the factory 1: 恢复出厂 1: Restore the factory |
| DefaultMaintainTime | unsigned char (optional) | 0~1 | 系统维护时间是否恢复出厂 Is the system maintenance time restored to the factory 0: 不恢复出厂 0: do not restore the factory 1: 恢复出厂 1: Restore the factory |
| DefaultSystemSettings | unsigned | 0~1 | 系统参数:身份证读卡器类型; 是否 |

```
    "DefaultDoorSet ":"1"
  }
}
```

e.g.2,控制记录恢复出厂（危险操作!!!）

E.g.2, the control records are restored to the factory (dangerous operation!!!)

```
{
"operator": "SetFactoryDefault",
"messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
"info":
{
  ■
  "DefaultRecord":"1"
}
}
```

e.g.3,人员名单库+控制记录恢复出厂（危险操作!!!）

E.g.3, personnel list database+control records are restored to the factory (dangerous operation!!!)

```
{
"operator": "SetFactoryDefault",
"messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
"info":
{
  ■
  "DefaultPerson":"1"
}
}
```

9.9.2 恢复出厂返回

9.9.2 Resume the factory and return

e.g.1,开门条件恢复返回

E.g.1, the door opening conditions are restored and returned

```
{
```

```
"messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
"operator": "SetFactoryDefault-Ack",
"info": {
"facesluiceId":"1306612",
"reboot":"0",
"result":"ok"
}
}
```

e.g.2,控制记录恢复返回

E.g.2, recovery and return of control records

```
{
"messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
"operator": "SetFactoryDefault-Ack",
"info": {
"facesluiceId":"1306612",
"reboot":"1",
"result":"ok"
}
}
```

e.g.3,人员名单库+控制记录恢复出厂返回

E.g.3, personnel list database+control records are restored and returned from the factory.

```
{
"messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
"operator": "SetFactoryDefault-Ack",
"info": {
"facesluiceId":"1306612",
"reboot":"1",
"result":"ok"
}
}
```

9.10 人脸识别参数

9.10 face recognition parameters

人脸识别参数主要是涉及到人脸识别一体机的识别参数。人脸最小像素只是限制识别的视频画面中人脸的最小像素值，可以和识别距离相对应。人脸检测区域的 X、Y 值代表视频画面检测区域的起始位置，人脸检测区域宽度、

高度代表基于 X、Y 所检测的视频画面的宽度和高度。人脸检测宽度、高度需要配合人脸检测区域的 X、Y 值使用，当 $X > 0$ 时，人脸检测宽度应该小于（人脸检测宽度最大值-X），至于人脸检测最小像素对应的识别距离可以参考附录 9.10 人脸识别最小像素与识别距离参考表，一般只需要改动人脸最小像素，其他参数不需要重新改动。

Face recognition parameters are mainly related to the recognition parameters of face recognition integrated machine. The minimum pixel of a face can correspond to the recognition distance as long as it is the minimum pixel value of a face in a video frame that limits recognition. The x and y values of the face detection area represent the starting position of the video picture detection area, The width and height of face detection area represent the width and height of video images detected based on X and Y .. The width and height of face detection need to match the X and Y values of face detection area. When $X > 0$, the width of face detection should be less than (the maximum value of face detection width - X). As for the recognition distance corresponding to the minimum pixel of face detection, please refer to Appendix 9.10 Reference Table of Minimum Pixel and Recognition Distance for Face Recognition Generally, only the minimum pixel of face needs to be changed, and other parameters do not need to be changed again.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|----------|------|---|---|
| operator | | GetFaceconfig/ UpFaceconfig/ GetFaceconfig-Ack/ UpFaceconfig-Ack | GetFaceconfig:获取人脸识别参数 GetFaceconfig: get face recognition parameters UpFaceconfig:设置人脸识别参数 UpFaceconfig: set face recognition parameters GetFaceconfig-Ack:获取人脸识别参数返回 GetFaceconfig-Ack: get face recognition parameters and return |

| | | | |
|--------------|--------|---|---|
| | | | UpFaceconfig-Ack:设置人脸识别参数返回 UpFaceconfig-Ack: set face recognition parameters to return |
| info | | | 具体内容 Specific content |
| facesluiceId | String | | 人脸识别一体机 id Face recognition integrated machine id |
| recDistance | Int | 30~200(单位:cm) 30~200 (unit: cm) | 识别距离(cm) Recognition distance (cm) |
| faceMinPixel | Int | 0~960 | 人脸最小像素(弃用，使用识别距离代替) Minimum pixel of face (deprecated, replaced by recognition distance) |
| detectArea_x | Int | 0~960 (默认 0) 0~960 (default 0) | 人脸检测区域 X 起始点 (偶数) Start point of face detection area x (even number) |
| detectArea_y | Int | 0~1280 (默认 0) 0~1280 (default 0) | 人脸检测区域 Y 起始点 (偶数) Y starting point of face detection area (even number) |
| detectArea_w | Int | 0~960 (默认 960) 0~960 (default 960) | 人脸检测区域宽度 (偶数) Width of face detection area (even number) |
| detectArea_h | Int | 0~1280 (默认 1280) 0 ~ 1280 (default 1280) | 人脸检测区域高度 (偶数) Face detection area height (even number) |
| result | | | 操作结果,成功: "ok" /失败: "fail" Operation result, success: "OK" or "failure" |
| detail | | | 失败时返回的原因 The reason returned on failure |

9.10.1 获取人脸识别参数

9.10.1 obtaining face recognition parameters

e.g.,

```
{
  "operator": "GetFaceconfig",
  "messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "info": {
    ■
  }
}
```

9.10.2 获取人脸识别参数返回

9.10.2 get face recognition parameters return

e.g.,

```
{
  "messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "operator": "GetFaceconfig-Ack",
  "info": {
    "facesluiceId": "1379743",
    "recDistance": "200",
    "faceMinPixel": "124",
    "detectArea_x": "0",
    "detectArea_y": "0",
    "detectArea_w": "960",
    "detectArea_h": "1280",
    "result": "ok"
  }
}
```

9.10.3 设置人脸识别参数

9.10.3 setting face recognition parameters

e.g.,

```
{
  "messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "operator": "UpFaceconfig",
  "info": {
    "facesluiceId":"1379743",
    "recDistance":"200",
    "faceMinPixel":"124",
    "detectArea_x":"0",
    "detectArea_y":"0",
    "detectArea_w":"960",
    "detectArea_h":"1280"
  }
}
```

9.10.4 设置人脸识别参数返回

9.10.4 set face recognition parameters return

e.g.,

```
{
  "messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "operator": "UpFaceconfig-Ack",
  "info": {
    "facesluiceId":"1379743",
    "result":"ok"}
}
```

9.11 4G 信息上报

9.11 4G information reporting

设备支持 4G 的才支持此接口。

This interface is only supported if the device supports 4G.

| Key | Type | Values | Description |
|-----|------|--------|-------------|
|-----|------|--------|-------------|

| | | | |
|--------------|--------|---|---|
| operator | | QuerySIMCardInfo/ QuerySIMCardInfo-Ack | QuerySIMCardInfo :获取 4G SIM 卡 信息 Querysimcardinfo: get 4G SIM card information QuerySIMCardInfo-Ack:获取 4G SIM 卡信息返回 Querysimcardinfo ack: get 4G SIM card information return |
| info | | | 具体内容 Specific content |
| facesluiceId | String | | 人脸识别一体机 id Face recognition integrated machine id |
| imei | String | | 国际移动设备识别码 International mobile device identification code |
| iccid | String | | SIM 卡卡号 SIM card number |
| imsi | String | | 国际移动用户识别码 International mobile subscriber identification code |
| result | | | 操作结果,成功: “ok” /失败: “fail” Operation result, success: "OK" or "failure" |
| detail | | | 失败时返回的原因 The reason returned on failure |

9.11.1 获取 4G 信息

9.11.1 access to 4G information

e.g.,

```
{
"messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXX",
```

```
"operator": " QuerySIMCardInfo "
}
```

9.11.2 获取 4G 信息返回

9.11.2 return of 4G information

```
e.g.,
{
"messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
"operator": " QuerySIMCardInfo-Ack",
"info": {
"facesluiceId":"1379743",
"imei":"*****",
"iccid":"*****",
"imsi":"*****",
"result":"ok"}
}
```

9.12 RTSP 参数

9.12 RTSP parameters

RTSP 参数主要是设置设备的 RTSP 运行参数，设置 RTSP 参数成功设备将重启，目前此接口指在部分机型支持。

RTSP parameters are mainly used to set the RTSP operation parameters of the device.

If the RTSP parameters are set successfully, the device will be restarted. At present, this interface is supported by some models.

| Key | Type | Values | Description |
|----------|------|---|---|
| operator | | GetRTSPCfgy/ GetRTSPCfgy-Ack/ SetRTSPCfgy/ SetRTSPCfgy-Ack | GetRTSPCfgy:获取 RTSP 参数 Getrtspcfgy: get RTSP parameters GetRTSPCfgy-Ack:获取 RTSP 参数 返回 Getrtspcfgy ack: get RTSP parameter return SetRTSPCfgy:设置 RTSP 参数 |

| | | | |
|--------------|------|--|--|
| | | | Setrtspcfg: setting RTSP parameters SetRTSPCfg-Ack: 设置 RTSP 参数返回 Setrtspcfg ack: set RTSP parameter return |
| info | | | 具体内容 Specific content |
| facesluiceId | char | | 人脸识别一体机 id Face recognition integrated machine id |
| OpenVerify | Int | 0~1 | 是否启用 RTSP 服务 Enable RTSP service 0: 不启用 0: not enabled 1: 启用 1: Enable |
| PackSize | Int | 1~1500 (默认:1500) 1 ~ 1500 (default: 1500) | 打包大小 byte Package size byte |
| RTSPPort | Int | | RTSP 端口 RTSP port |
| result | | | 操作结果,成功: “ok” /失败: “fail” Operation result, success: "OK" or "failure" |
| detail | | | 失败时返回的原因 The reason returned on failure |

9.12.1 获取 RTSP 参数

9.12.1 obtaining RTSP parameters

e.g.,

```
{
  "operator": "GetRTSPCfg",
  "messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "info":
```

```
{  
█  
  
}  
}
```

9.12.2 获取 RTSP 参数返回

9.12.2 Get RTSP parameters and return them

e.g.,

```
{  
"messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",  
"operator": "GetRTSPCfg-Ack",  
"code":"200",  
"info": {  
"facesluiceId":"1478428",  
"OpenVerify":"0",  
"PackSize":"1500",  
"RTSPPort":"554",  
"result":"ok"}  
}
```

9.12.3 设置 RTSP 参数

9.12.3 Setting RTSP parameters

e.g.,

```
{  
"messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",  
"operator": "SetRTSPCfg",  
"info": {  
"facesluiceId":"1478428",  
"OpenVerify":"0",  
"PackSize":"1500",  
"RTSPPort":"556"}  
}
```

9.12.4 设置 RTSP 参数返回

9.12.4 Set RTSP parameters to return

e.g.,

```
{
  "messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "operator": "SetRTSPCfg-Ack",
  "code":"200",
  "info": {
    "facesluiceId":"1478428",
    "result":"ok"
  }
}
```

10 设备上线下线通知

10 equipment online and offline notification

主要是设备连接上平台后，设备主动发送设备上线通知；设备下线后，设备主动发送设备下线通知。设备将主动推送上线下线通知消息到主题 `mqtt/face/basic` 中。

Mainly after the equipment is connected to the platform, the equipment actively sends the equipment online notification; After the equipment goes offline, the equipment actively sends the notice of equipment going offline. The equipment will actively push the online and offline notification message to the topic `mqtt/face/basic`.

| Key | Type | Values | Description |
|----------|------|-----------------------------------|--|
| operator | | Online/ Online-Ack/ Offline | Online:设备上线通知 Online: device online notification Online-Ack:设备接收平台上线的回 |

| | | | |
|--------------|--------|------|--|
| | | | 复 Online-Ack: the device receives the reply from the online platform Offline:设备下线通知 Offline: Equipment Offline Notification |
| info | | | 具体内容 Specific content |
| facesluiceId | String | | 人脸识别一体机 id Face recognition integrated machine id |
| username | String | | 云端用户名 Cloud username |
| ip | String | | 设备 ip 地址 Ip address of device |
| facesname | String | | 设备本机名称 Equipment native name |
| time | String | | 上线时间 uptime |
| result | char | “ok” | 平台下发接收设备上线确认消息 The platform issues the receiving equipment online confirmation message |
| | | | |

10.1 设备上线通知

10.1 equipment online notification

设备在连接平台成功的前提下，向平台发送上线通知消息，平台接收到上线通知消息后，需要回复设备接收设备上线通知回复，否则设备会间隔时间内（大概一分钟）不断发送上线通知消息到平台，直至接收到平台确认信息。设备默认推送上线通知消息话题为 **mqtt/face/basic**。

On the premise of successful connection to the platform, the equipment sends

online notification message to the platform. After the platform receives the online notification message, it needs to reply to the equipment receiving the online notification reply; otherwise, the equipment will continuously send online notification messages to the platform at intervals (about one minute) until it receives the platform confirmation information. The default topic of the device push online notification message is mqtt/face/basic.

e.g., 设备发送上线通知

E.g., equipment sends online notification

```
{
  "operator": "Online",
  "info": {
    "facesluiceId": "1305433",
    "username": "admin",
    "time": "2020-05-12 15:11:10",
    "ip": "172.168.2.202",
    "facesname": "Face1"
  }
}
```

10.2 设备接收上线通知回复

10.2 equipment receives online notification reply

平台接收到设备的上线通知后，需要回复设备接收到上线通知，否则设备会间隔时间内（大概一分钟）不断发送上线通知指令到平台，直至接收到平台确认信息。

After the platform receives the online notification of the equipment, it needs to reply that the equipment has received the online notification; otherwise, the equipment will continuously send online notification instructions to the platform at

intervals (about one minute) until the platform confirmation information is received.

e.g., 平台回复接收设备上线通知

E.g., the platform replies to the online notification of receiving equipment

```
{  
  "messageId":10201,  
  "operator":"Online-Ack",  
  "info":{  
    "facesluiceId":"1305433",
```

```
  }
```

```
  "result":"ok",  
  "detail":""
```

```
}
```

```
}
```

```
}
```

```
}
```

10.3 设备下线通知

10.3 notice of equipment offline

设备默认推送下线通知消息话题为 `mqtt/face/basic`。设备下线通知已改为遗嘱形式发送下线通知，下线通知可能会在网络等异常的情况下一小段时候后由服务器发送。下线通知可以配合心跳使用。

The topic of the device's default push offline notification message is `mqtt/face/basic`. The equipment offline notification has been sent in the form of will, and the offline notification may be sent by the server after a short period of time under abnormal conditions such as the network. Downline notification can be used with heartbeat.

e.g., 设备发送下线通知

E.g., the equipment sends the offline notification

```
{  
  "operator": "Offline",
```

```
"info": {  
  "facesluiceId": "1305433"  
}
```

11 断网续传

11. Continuation of disconnection

MQTT 在推送陌生人抓拍信息或者认证记录信息的时候可设置为是否采用断网续传模式，默认不采用，则不需要平台(服务器)返回每一条推送的陌生人抓拍信息或者认证记录信息；若采用断网续传模式下推送，平台(服务器)需要对接收到的每一条抓拍信息或者认证记录信息在 **10 秒内**按照以下格式进行回复，否则人脸识别一体机在下一个 10 秒左右后一直推送相同的一条信息。若平台(服务器)接收到的为陌生人抓拍信息，PushAckType 置为 1，SnapOrRecordID 置为 **6 陌生人人员信息上传**推送的 SnapID;若平台(服务器)接收到的为认证记录信息，PushAckType 置为 2，SnapOrRecordID 置为 **5 认证识别人员信息**上传中推送的 RecordID 来回复人脸识别一体机。通过 **20 手动推送控制记录**和 **22 手动推送陌生人记录上报**的数据则不需要平台回复一体机，通过这两个手动设置推送的接口上报的数据中 PushType 字段都为 2。

MQTT can be set to whether to adopt the disconnection and continuous transmission mode when pushing stranger capture information or authentication record information. if it is not adopted by default, the platform (server) does not need to return each pushed stranger capture information or authentication record information; If the push mode of disconnection and continuous transmission is adopted,The platform (server) needs to reply to each captured information or authentication record information in the following format within 10 seconds, otherwise, the face recognition integrated machine will push the same information all the time after the next 10 seconds or so. If the platform (server) receives the stranger's snapshot information, PushAckType is set to 1 and 1,SnapOrRecordID is set to **6 stranger personnel information upload** SnapID pushed; If the platform (server) receives authentication record information, PushAckType is set to 2 and 2,SnapOrRecordID is set to **5 Information of certification and identification personnel**

Upload the RecordID pushed in to reply to the all-in-one face recognition machine.
pass [20 manual push control records](#) and [22 Manually push stranger records to report](#) There is no need for the platform to reply to the all-in-one machine, and the PushType field in the data reported through these two manually set push interfaces is both 2.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

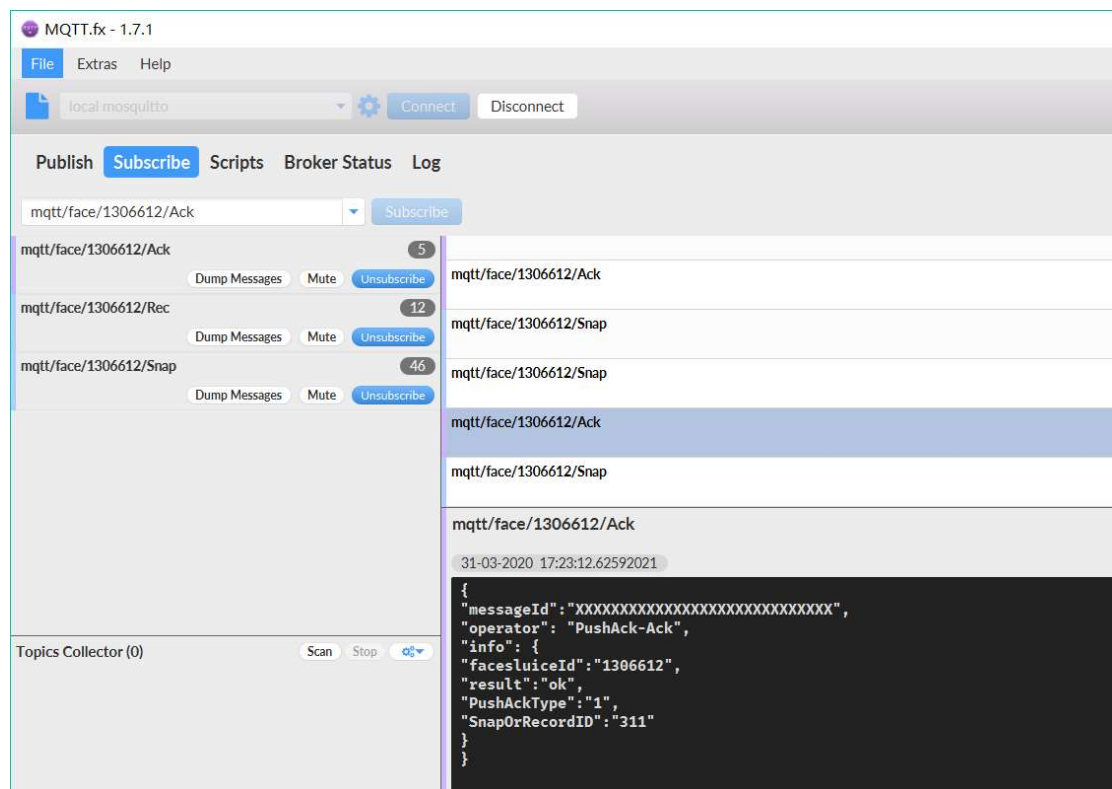
| Key | Type | Values | Description |
|----------------|------|--------------------------|--|
| operator | | PushAck/ PushAck-Ack/ | 平台(服务器)接收推送信息确认 The platform (server) receives the push information confirmation 平台(服务器)接收推送信息确认返回 The platform (server) receives the push information and confirms the return |
| info | | | 具体内容 Specific content |
| PushAckType | int | 1~2 | 1:回复接收到陌生人抓拍信息 1: reply to receive information captured by strangers 2:回复接收到认证记录信息 2: Reply received authentication record information |
| SnapOrRecordID | int | | PushAckType=1;填接收到的陌生人 抓拍库 ID PushAckType=1; Fill in the received stranger snapshot library ID PushAckType=2;填接收到的控制记 录库 ID PushAckType=2;Fill in the received |

The e.g.2 platform replies to receive the information captured by strangers

```
{
"operator": "PushAck",
"messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
"info": {
"PushAckType": "1",
"SnapOrRecordID": "311"
}
}
```

11.2 回复接收到陌生人抓拍信息返回

11.2 reply to receive the information captured by strangers



11.3 回复接收到认证记录信息

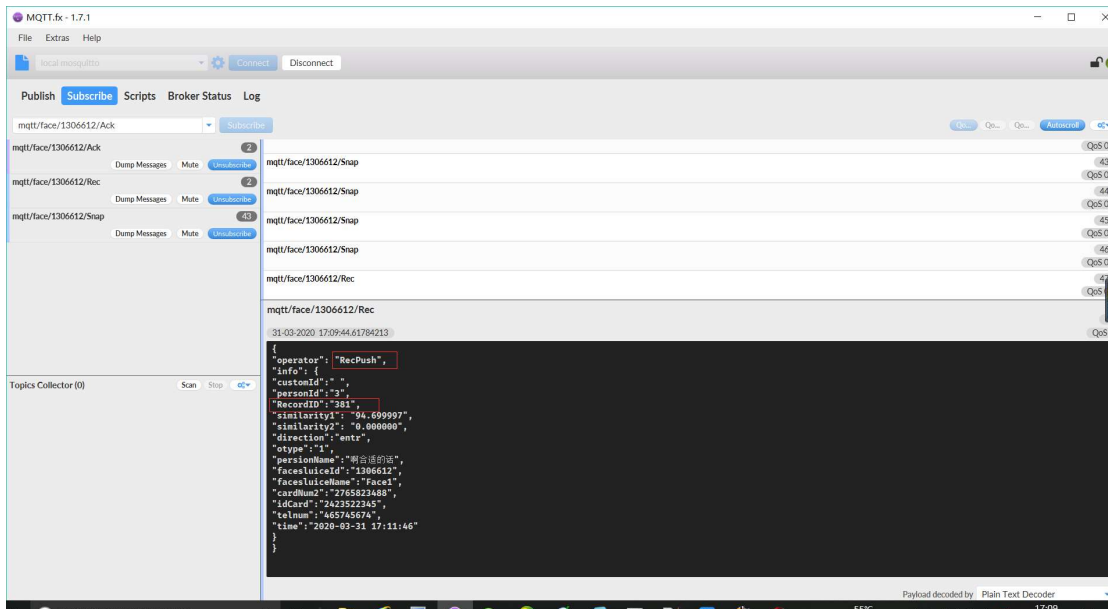
11.3 reply to the received authentication record information

在断网续传模式下，开启认证记录推送信息时，平台接收到认证记录信息需要回复人脸识别一体机信息。

In the mode of disconnection and continuous transmission, when the authentication record is turned on to push information, the platform needs to reply to the information of the face recognition integrated machine when receiving the authentication record information.

e.g.1,假设平台接收到以下控制记录信息

E.g.1, assume that the platform receives the following control record information



则平台需要回复人脸识别一体机如下

Then the platform needs to reply to the face recognition integrated machine as follows

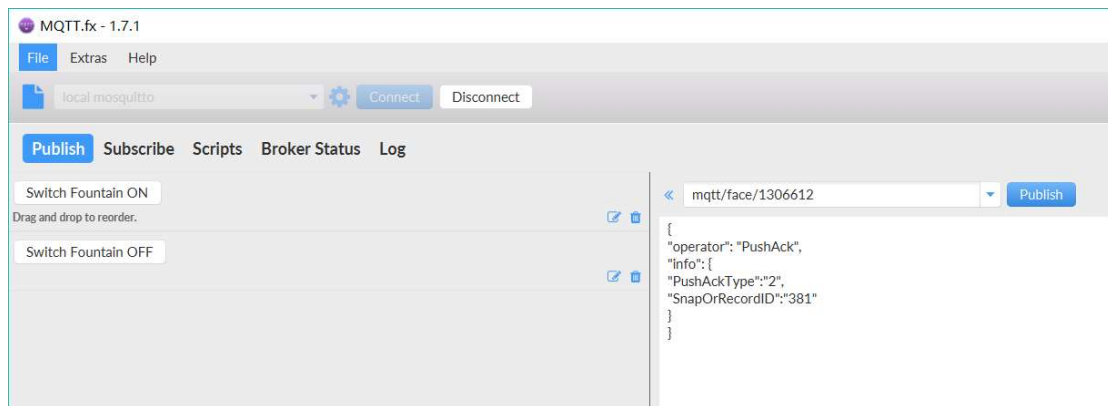
e.g.2 平台回复接收到认证记录信息

The e.g.2 platform reply to that received authentication record information

```
{
  "messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "operator": "PushAck",
  "info": {
    "PushAckType": "2",
```

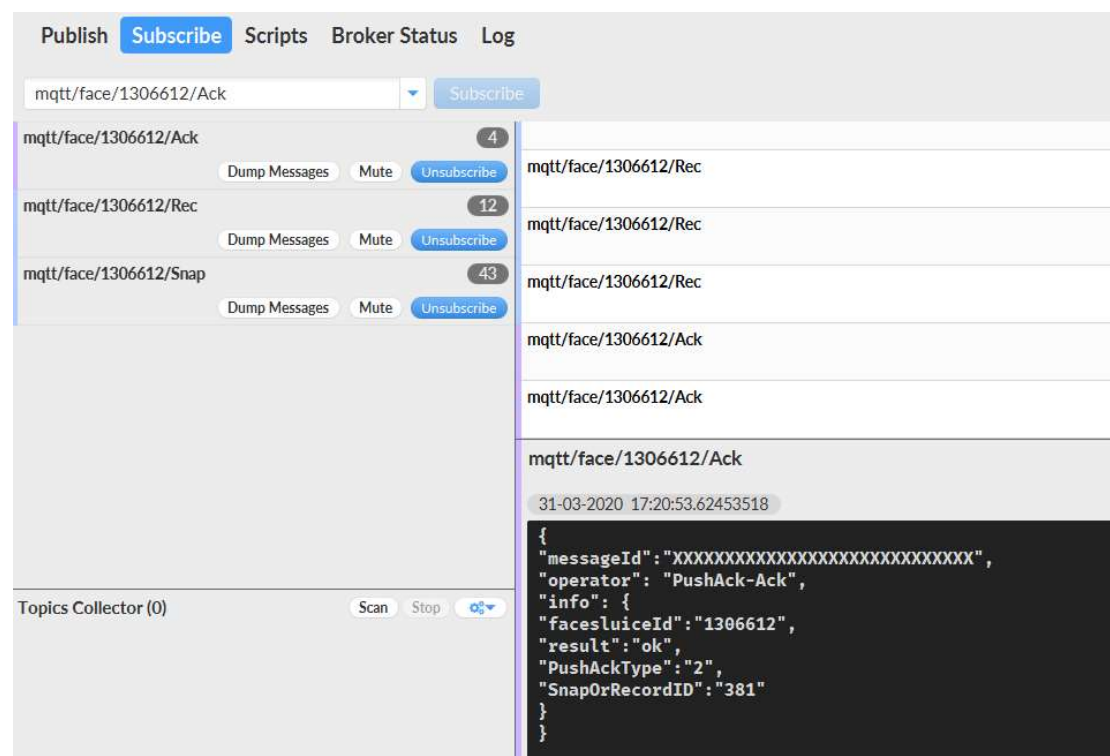
```
"SnapOrRecordID": "381"
```

```
}  
}
```



11.4 回复接收到认证记录信息返回

11.4 reply to the receipt of authentication record information



12 广告播放

12 advertisement broadcasting

人脸识别一体机（特殊版本）支持轮询时间播放广告图片，图片格式支持png/jpg/bmp 格式图片，目前支持最大 5 张广告图片。7 寸机器广告图片像素大小 600*1024，8 寸机器广告图片像素大小 800*1280。

The face recognition all-in-one machine (special version) supports playing advertisement pictures at polling time, and the picture format supports png/jpg/bmp format pictures. Currently, it supports up to 5 advertisement pictures. The pixel size of 7-inch machine advertisement picture is 600 * 1024, and the pixel size of 8-inch machine advertisement picture is 800*1280.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|-----------|------|--|--|
| operator | | EditAD/ EditAD-Ack/ DelAD/ DelAD-Ack/ | EditAD:添加/修改广告 EditAD: Add/Modify Advertisement EditAD-Ack:添加/修改广告返回 EditAD-Ack: Add/Modify Advertisement Return DelAD:删除广告 DelAD: Delete ads DelAD-Ack:删除广告返回 DelAD-Ack: delete advertisement return |
| messageId | char | | 消息 id,区分每一条消息 Message id to distinguish each message |
| info | | | 具体内容 Specific content |

| | | | |
|--------------|--------------------|-------------------------------|---|
| facesluiceId | char | | 人脸识别一体机 id Face recognition integrated machine id |
| addid | char (optional) | 操作 ID Operation ID | 预留 reserve |
| path | char | | 图片下载路径 Image download path |
| adslot | int | 0~4 | 广告槽位 Advertising slot |
| polltime | int (optional) | 默认 10 秒 Default 10 seconds | 每张广告轮询播放时长 Polling the playing time of each advertisement |
| result | char | “ok” | |
| | | | |

12.1 增加/修改广告

12.1 add/modify advertisements

e.g.1,添加/修改广告槽位 0

E.g.1, add/modify advertisement slot 0

```
{
  "operator": "EditAD",
  "messageId": "ID:localhost-637050888589478689:44009:24:40",
  "info":
  {
    "adid": "",
    "path": "http://pics.sc.chinaz.com/files/pic/pic9/201903/zzpic16841.jpg",
    "adslot": "0",
    "polltime": "10"
  }
}
```

e.g.1,修改每张广告轮询播放时长 15 秒

E.g.1, modify the polling playing time of each advertisement for 15 seconds

```
{
  "operator": "EditAD",
  ■
  "messageId": "ID:localhost-637050888589478689:44009:24:40" ,
  "info":
  ■
  {
    "adid": "",
    "adslot": "0",
    "polltime": "15"
  }
}
```

12.2 增加/修改广告返回

12.2 add/modify advertisement return

e.g.1,添加/修改广告槽位 0 返回

E.g.1, add/modify advertisement slot 0 to return

```
{
  "messageId": "ID:localhost-637050888589478689:44009:24:40",
  "operator": "EditAD-Ack",
  "info": {
    "facesluiceId": "1306612",
    "adid": "",
    "result": "ok"
  }
}
```

e.g.1,修改广告轮询播放时长 15 秒返回

E.g.1, modify the advertisement polling playing time for 15 seconds and return

```
{
  "messageId": "ID:localhost-637050888589478689:44009:24:40",
  "operator": "EditAD-Ack",
  "info": {
    "facesluiceId": "1306612",
    "adid": "",
    "result": "ok"
  }
}
```

```
}
```

12.3 删除广告

12.3 delete advertisement

e.g.1,删除广告槽位 0

E.g.1, delete advertisement slot 0

```
{  
  "operator": "DelAD",  
  "messageId": "ID:localhost-637050888589478689:44009:24:50",  
  "info":
```

```
■
```

```
{  
  "adid": "",  
  "adslot": "0"  
}  
}
```

12.4 删除广告返回

12.4 delete the advertisement to return

e.g.1,删除广告槽位 0 返回

E.g.1, delete advertisement slot 0 and return

```
{  
  "messageId": "ID:localhost-637050888589478689:44009:24:50",  
  "operator": "DelAD-Ack",  
  "info": {  
    "facesluiceId": "1306612",  
    "adid": "",  
    "result": "ok"  
  }  
}
```

13 播放语音文件

13 play voice files

人脸识别一体机支持播放一体机原有声音文件，也支持播放客户自定义的语音文件。客户自定义的语音文件需要满足特定语音文件格式。所有语音文件需要采用单通道，采样率为 16KHz，以“.wav”格式结尾；如果是客户自定义语音文件，需要以“_C.wav”格式结尾,在 web 页面文件升级接口升级语音文件即可。

The face recognition all-in-one machine supports playing the original sound files of the all-in-one machine, and also supports playing the voice files customized by customers. Customer-defined voice files need to meet specific voice file formats. All voice files need to adopt a single channel with a sampling rate of 16KHz and ending in ".wav" format; If it is a customer-defined voice file, it needs to end in "_C.wav" format. Upgrade the voice file on the web page file upgrade interface.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|-----------|------|--|---|
| operator | | GetAudio/ GetAudio-Ack/ voiceplay/ voiceplay-Ack/ | GetAudio:获取语音文件 GetAudio: get voice file GetAudio-Ack:获取语音文件返回 GetAudio-Ack: get voice file return voiceplay:播放语音文件 Voiceplay: play voice files voiceplay-Ack:播放语音文件返回 Voiceplay-Ack: play the voice file to return |
| messageId | char | | 消息 id,区分每一条消息 Message id to distinguish each message |
| info | | | 具体内容 |

| | | | Specific content |
|-------------------|--------------------|---|---|
| facesluiceld | char | | 人脸识别一体机 id Face recognition integrated machine id |
| AudioNum | int (optional) | | 一体机原有声音文件个数 Number of original sound files of all-in-one machine |
| AudioName | char (optional) | | 一体机原有声音文件名集合 Original sound file name set of all-in-one machine |
| AudioCustomerNum | int (optional) | | 一体机客户自定义声音文件个数 Customer-defined sound file number of all-in-one machine |
| AudioCustomerName | char (optional) | | 一体机客户自定义声音文件名集合 All-in-one customer-defined sound file name collection |
| voicetype | char | 例如:welcome.wav Example: welcome.wav | 需要播放的声音文件名 File name of sound to be played |
| UsrType | char | 1~2 默认不传则播放一体机原有声音文件 1~2 By default, the original sound file of the all-in-one machine will be played if it is not transmitted | 1:播放一体机原有声音文件 1: Play the original sound file of the integrated machine 2:播放一体机客户自定义声音文件 2. Play all-in-one customer-defined sound files |
| result | | | 操作结果,成功: “ok” /失败: “fail” Operation result, success: "OK" or "failure" |
| detail | | | 失败时返回的原因 The reason returned on failure |

13.1 获取语音文件

13.1 obtaining voice files

e.g.1, 获取语音文件

E.g.1, acquiring voice files

```
{
  "operator": "GetAudio",
  "messageId": "ID:localhost-637050888589478689:44009:24:40" ,
  "info":
  {
  }
}
```

13.2 获取语音文件返回

13.2 get the voice file to return

e.g.1, 获取语音文件返回

E.g.1, get the voice file to return

```
{
  "messageId": "ID:localhost-637050888589478689:44009:24:40",
  "operator": "GetAudio-Ack",
  "info": {
    "facesluiceId": "1306612",
    "result": "ok",
    "AudioNum": "35",
    "AudioName": ["VerifyFail.wav", "VerifySuccess.wav", "sorry.wav", "sorry_en.wav", "unrecorded.
wav", "welcome.wav", "welcome_en.wav", "tempertureHigh.wav", "NeedHelmet_en.wav", "FailVeri
fy.wav", "SnapSucc.wav", "tempertureOkWelcome.wav", "unrecorded_kr.wav", "tempertureOkNR.
wav", "theDoorOpen_en.wav", "SLGreenWelcome.wav", "sorry_pt.wav", "SnapFail.wav", "welcome
_kr.wav", "FaceCollection.wav", "welcome_pt.wav", "theDoorOpen.wav", "tempertureLow.wav", "te
mpertureOk.wav", "welcome_rs.wav", "NeedRespirator.wav", "verifyfail.wav", "SwipeCard.wav", "s
orry_kr.wav", "Snaping.wav", "unrecorded_en.wav", "NeedHelmet.wav", "unrecorded_rs.wav", "Bru
shIDcard.wav", "sorry_rs.wav"]
  },
  "AudioCustomerNum": "1",
  "AudioCustomerName": ["Fail_C.wav"]
}
```

13.3 播放语音文件

13.3 playing voice files

e.g.1,播放一体机原有语音文件

E.g.1, play the original voice file of the integrated machine

```
{  
  "operator": "voiceplay",  
  "messageId": "ID:localhost-637050888589478689:44009:24:40",  
  "info":  
  █  
  {  
  █  
    "UsrType": "1",  
    "voicetype": "welcome.wav"  
  }  
}
```

13.4 播放语音文件返回

13.4 play back the voice file

e.g.1,播放一体机原有语音文件返回

E.g.1, playing back the original voice file of the integrated machine

```
{  
  "messageId": "ID:localhost-637050888589478689:44009:24:40",  
  "operator": "voiceplay-Ack",  
  "info": {  
    "facesluiceId": "1306612",  
    "result": "ok"  
  }  
}
```

14 二维码

14 QR code

二维码部分可分为两部分，一部分是可以将二维码图像显示在一体机的整个

UI 界面上，一体机支持两种形式的显示二维码图像，一种是直接下发待编码的二维码图像的字符串数据，一体机生成二维码图像，另一种是直接下发二维码的 base64 图片数据，一体机直接显示图片；另一部分是一体机的 485 接口支持外接二维码扫码器，将二维码扫码结果数据直接透传上传。支持外接二维码扫码器的人脸识别一体机在设置了二维码扫码信息上传模式下，参数设置见 [9.6 MQTT 上报参数](#)；主动往对应的话题 `mqtt/face/ID/QRCode`（其中 ID 指本机 ID，例如 1305433）推送对应的扫码信息结果。针对不同屏幕尺寸的机器，需要计算好起始位置和图像大小，避免发生越界。如果下发的为图片的 base64 数据，需要指定好图片的原始真实图片格式，否则不能正常显示图片数据。

Two-dimensional code can be divided into two parts, one is to display two-dimensional code images on the whole UI interface of the all-in-one machine, and the all-in-one machine supports two forms of displaying two-dimensional code images, one is to directly issue string data of two-dimensional code images to be encoded, the all-in-one machine generates two-dimensional code images, and the other is to directly issue base64 picture data of two-dimensional codes. All-in-one machine directly displays pictures; The other part is that the 485 interface of the all-in-one machine supports an external two-dimensional code scanner, which directly transmits and uploads the result data of two-dimensional code scanning. The face recognition all-in-one machine supporting an external two-dimensional code scanner is set in the uploading mode of two-dimensional code scanning information, and the parameter settings are shown in [9.6 MQTT reporting parameters](#) ; Actively push the corresponding scan code information results to the corresponding topic `mqtt/face/ID/QRCode` (where ID refers to the local ID, for example, 1305433). For machines with different screen sizes, it is necessary to calculate the starting position and image size to avoid out-of-bounds. If base64 data of pictures is distributed, the original real picture format of pictures should be specified, otherwise the picture data cannot be displayed normally.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|----------|------|-------------|--------------------|
| operator | | ShowQRCode/ | ShowQRCode:设置二维码图像 |

| | | | |
|----------------|------|-------------------------------|--|
| | | ShowQRCode-Ack/ QRCodePush | ShowQRCode: set the QR code image ShowQRCode-Ack:设置二维码图像 返回 ShowQRCode-Ack: set the QR code image to return QRCodePush:二维码扫码信息推送 QRCodePush: QR code scan information push |
| messageId | char | | 消息 id,区分每一条消息 Message id to distinguish each message |
| info | | | 具体内容 Specific content |
| facesluiceId | char | | 人脸识别一体机 id, 传入具体键值 则指定匹配机器执行, 不传入则订 阅了相同话题的所有机器执行 Face recognition all-in-one id, pass in the specific key value to specify the matching machine to execute, and if not pass in, subscribe to all machines with the same topic to execute |
| facesluiceName | | | 一体机名称 All-in-one machine name |
| ImageType | Int | | 显示图像类型 Display image type 1:待显示二维码图像 1: two-dimensional code image to be displayed 2:待显示图像格式为 png 2: The format of the image to be displayed is png 3:待显示图像格式为 jpg |

| | | | |
|------------|------|--|---|
| | | | 3: The format of the image to be displayed is jpg 4:待显示图像格式为 bmp 4: The format of the image to be displayed is bmp |
| AbsX | int | 10~不同 UI 宽度最大值 (默认:10) 10~ Maximum width of different UI (default: 10) | 显示图像基于 UI 起始位置 X 值 The display image is based on the x value of the UI starting position |
| AbsY | int | 10~不同 UI 高度最大值 (默认:10) 10~ Maximum height of different UI (default: 10) | 显示图像基于 UI 起始位置 Y 值 The display image is based on the Y value of the UI starting position |
| ImageW | int | 10~400(默认:200) 10~400 (default: 200) | 显示图像宽度 Display image width |
| ImageH | int | 10~400(默认:200) 10~400 (default: 200) | 显示图像高度 Height of display image |
| QRCodeData | char | 32K 字节(含结束符) 32kbytes (including terminator) | ImageType=1 为待编码的二维码图像字符串数据; ImageType=1 is the two-dimensional code image string data to be encoded; ImageType=2 为待显示 png 图像的 BASE64 数据; ImageType=2 is BASE64 data of png image to be displayed; ImageType=3 为待显示 jpg 图像的 BASE64 数据; ImageType=3 is BASE64 data of jpg image to be displayed; ImageType=4 为待显示 bmp 图像的 BASE64 数据; ImageType=4 is BASE64 data of bmp image to be displayed; |
| ShowStatus | int | 0 | 取消二维码图像显示 |

| | | | |
|------------|------------|--|--|
| | (optional) | | Cancel the display of QR code image 0:取消显示 0: cancel display |
| | | | |
| QRCodeInfo | char | | 上报的二维码扫码结果信息 Reported two-dimensional code scanning result information |
| time | char | | 上报的时间;e.g., Time of reporting; e.g., 2020-04-17 14:04:25 |
| result | | | 操作结果,成功: “ok” /失败: “fail” Operation result, success: "OK" or "failure" |
| detail | | | 失败时返回的原因 The reason returned on failure |

14.1 设置二维码图像

14.1 set the QR code image

支持将二维码图像信息通过 [3.2.2 发布话题](#) 中的 [云话题 Topic](#) 主题下发至人脸识别一体机，并显示在人脸识别一体机的界面上。下发显示成功的二维码图像在 [连接服务器失败或者重新连接服务器](#) 的情况下将会在几十秒后自动取消显示，云平台端需要在每次连接上服务器的时候再次下发二维码图像至人脸识别一体机，建议通过判断人脸识别一体机是否发送设备上线通知来配合是否需要再次下发二维码图像信息。

Support two-dimensional code image information through [3.2.2 release topics](#) The topic of cloud topic in is sent to the all-in-one face recognition machine and displayed on the interface of the all-in-one face recognition machine.If the QR code image is sent out and displayed successfully, the display will be automatically cancelled in tens of seconds in case of failure to connect to the server or re connect to the server,The cloud flat terminal needs to send the QR code image again to the face recognition all-in-one machine every time it connects to the server. It is

recommended to determine whether the face recognition all-in-one machine sends the equipment online notice to cooperate with whether it needs to send the QR code image information again.

e.g.1,创建二维码图像

e. G.1, create a QR code image

```
{
  "messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "operator": "ShowQRCode",
  "info":
  {
    "ImageType":"1",
    "AbsX":"10",
    "AbsY":"10",
    "ImageW":"200",
    "ImageH":"200",
    "QRCodeData":"A1B2C3D4E5r6t7y8u9Pn"
  }
}
```

e.g.2,直接显示 png 格式的二维码图片

e. 2, directly display the PNG format of the two-dimensional code picture

```
{
  "messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  "operator": "ShowQRCode",
  "info":
  {
```

```
"ImageType": "2",
"AbsX": "10",
"AbsY": "10",
"ImageW": "200",
"ImageH": "200",
"QRCodeData": "data:image/bmp;base64,iVBORw0KGgoAAAANSUhEUgAAAYAAAAMgCAI
AAABUEpE/AAAqH0lEQVR42u3YQZlCQwEwf7/p0dnHWU2piYyPB5Qq64iAZ/9/EiSJOIX+
3gFkiRJgCVJkgRYkiRJgCVJkiTAKiRJAixJkiTAKiRJEEmBJkiQBliRJEEmBJkiQJsCRJk/*此处省
略数据*/"
```

```
"QRCodeData": "data:image/bmp;Base64, ivborw0kgoaaaaansuheugaaayaaaamgciaaabuepe /
aaaqh0leqvr42u3yqzicoqweew7 / p0dnhwu2piypb5qq64iaz / 9 / eisjolx +
3gfkirjgcvjkiRjgcvjkitakirjaixjkitakirjemjkiqbliRjembjkiqjsrjk / * data omitted here*/"
```

```
}
}
}
```

e.g.3,取消二维码图像

e. G.3, cancel the QR code image

```
{
"messageId": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
```

```
"operator": "ShowQRCode",
```

```
"info":
```

```
{
"ShowStatus": "0"
}
```

```
}
```

14.2 设置二维码图像返回

14.2 set the QR code image to return

e.g.1,设置二维码图像返回 和 e.g.2,取消二维码图像返回

e. G.1, set QR code image return and E.g.2, cancel QR code image return

```
{
  "messageId":"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
  ■
  "operator": "ShowQRCode-Ack",
  "info": {
    "facesluiceId":"1333206",
    "result":"ok"
  }
  ■
}
```

14.3 二维码扫码信息上报

14.3 Report of QR code scanning information

e.g.1,上报的二维码信息

e. G.1, reported QR code information

```
{
  ■
  "operator":
  ■
  "QRCodePush",
  "info": {
    ■
    "facesluiceId":"1326491",
    "facesluiceName":"Face1",
    "QRCodeInfo":"https://u.wechat.com/123456ABCD",
    "time":"2020-04-24 20:52:51"
  }
}
```

15 心跳

15 heartbeat

为了解决许多平台无法及时检测到人脸识别一体机与平台的联通情况，设备主动增加心跳信息，设备将主动每间隔 30 秒左右推送心跳消息到主题 `mqtt/face/heartbeat` 中。

In order to solve the problem that many platforms can not detect the connection between the face recognition all-in-one machine and the platform in time, the device actively increases the heartbeat information, and the device will actively push the heartbeat message to the topic `mqtt / face / heartbeat` every 30 seconds.

| Key | Type | Values | Description |
|--------------|--------|-----------|---|
| operator | | HeartBeat | Online:设备心跳 Online: device heartbeat |
| info | | | 具体内容 Specific content |
| facesluiceId | String | | 人脸识别一体机 id Face recognition integrated machine id |
| time | String | | 心跳时间 Heartbeat time |

15.1 心跳

15.1 heartbeat

平台可通过多次（最少两次）未接收到心跳来检测人脸识别一体机是否重连或者关机，平台检测到重连的情况，则在这期间发送的指令信息若没有得到回复，则需要重新发送。

The platform can detect whether the all-in-one face recognition machine is reconnected or shut down by not receiving the heartbeat for several times (at

least twice). If the platform detects the reconnection, the command information sent during this period needs to be sent again if it does not get a reply.

e.g.,设备发送心跳

e. G., device sends heartbeat

```
{
  "operator": "HeartBeat",
  "info": {
    "facesluiceId": "1306612",
    "time": "2020-05-10 19:43:34"
  }
}
```

16 获取抓拍场景图

16 get the snapshot scene map

获取抓拍场景图接口主要是可以让平台调取接口获取一张场景图，本接口频繁调用将有可能对识别主体线程有影响。鉴于客户可能会将多台的人脸识别一体机订阅的话题设置成一致，而获取抓拍场景图又不需要多台设备同时执行，只要一台机器执行即可知结果，所以 facesluiceId 字段和键值传入的话，将指定具体的一台机器执行，如果不传入 facesluiceId 字段和键值，订阅了同一话题的所有机器将执行此操作。

The interface for capturing the snapshot scene graph mainly allows the platform to call the interface to obtain a scene graph. Frequent calls of this interface may affect the identification of the main thread. In view of the fact that customers may set the subscription topics of multiple all-in-one face recognition machines to be consistent, and it is not necessary for multiple devices to execute the snapshot scene map at the same time, As long as one machine executes, the

result will be known. Therefore, if the facesluiceid field and key value are passed in, a specific machine will be specified for execution. If the facesluiceid field and key value are not passed in, all machines that subscribe to the same topic will perform this operation.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|--------------|----------------------|-----------------------------------|--|
| operator | | GetSceneSnap/ GetSceneSnap-Ack | GetSceneSnap:获取抓拍场景图 Getsceneasnap: get snapshot scene map GetSceneSnap-Ack:获取抓拍场景图 返回 Getsceneasnap ack: get snapshot scene image return |
| messageId | String | | 消息 id,区分每一条消息 Message id to distinguish each message |
| facesluiceId | String (optional) | | 人脸识别一体机 id, 传入具体键值 则指定匹配机器执行, 不传入则订 阅了相同话题的所有机器执行 Face recognition all-in-one id, pass in the specific key value to specify the matching machine to execute, and if not pass in, subscribe to all machines with the same topic to execute |
| info | | | 具体内容 Specific content |
| ImgType | Int | 0~2 (默认: 2) 0 ~ 2 (default: 2) | 抓拍图片数据返回类型 Capture image data return type 0: yuv, 1: bmp, 2: jpeg |
| ImgQuality | Int | 55~100 | ImgType=2 时必填, 压缩的图片质 |

| | | | |
|---------|------------|--|--|
| | (optional) | | 量(默认:55) Imgtype = 2 is required, compressed image quality (default: 55) |
| ImgData | String | | 返回的抓拍图片 Base64 数据 Returned snapshot Base64 data |

16.1 获取抓拍场景图

16.1 get the snapshot scene map

e.g.1, 获取抓拍场景图

e. G.1, get the capture scene map

```
{
  "operator": "GetSceneSnap",
  "messageId": "ID:localhost-637050888589478689:44009:24:40",
  "info": {
    "facesluiceId": "1379743",
    "ImgType": "2",
    "ImgQuality": "100"
  }
}
```

16.2 获取抓拍场景图返回

16.2 get the snapshot scene map and return it

e.g.1, 获取抓拍场景图返回

e. G.1, get the captured scene map and return

```
{
  "messageId": "ID:localhost-637050888589478689:44009:24:40",
  "operator": "GetSceneSnap-Ack",
  "info": {
    "facesluiceId": "1379743",
    "ImgType": "2",
    "ImgData": "data:image/bmp;base64,/9j/4AAQSkZJRg/*此处省略数据
    */caVY3PMltHu/vKNp/MVg6Jq940svm3ltqFovCvGQJBh1BpVaJcmNwmeuRnNRNpRbZnVko
    wblsf/9k=",
    "ImgData": "data:image/bmp;Base64, / 9j / 4aaqskzjrg / * data omitted here * / cavy3pmlthu /
    vknp / mvvg6jq940svm3ltqfovvgqjbh1bpvajcmnwnerurnnrnbbznvkwblsf / 9K =,
    "result": "ok"
  }
}
```

}

17 图片比较相似度

17 picture comparison similarity

图片比较相似度接口提供了比对两张图片的相似度。鉴于客户可能会将多台的人脸识别一体机订阅的话题设置成一致,而图片比对相似度又不需要多台设备同时执行,只要一台机器执行即可知结果,所以 facesluiceId 字段和键值传入的话,将指定具体的一台机器执行,如果不传入 facesluiceId 字段和键值,订阅了同一话题的所有机器将执行此操作。

The image comparison similarity interface provides the similarity between two images. In view of the fact that customers may set the subscription topics of multiple all-in-one face recognition machines to be consistent, and the similarity of image comparison does not need to be executed by multiple devices at the same time. As long as one machine executes, the results will be known. Therefore, if the facesluiceId field and key value are passed in, a specific machine will be designated to execute. If you do not pass in the facesluiceId field and key value, all machines that subscribe to the same topic will do so.

参数信息 (注: optional 为可选项):

Parameter information (Note: optional is optional)

| Key | Type | Values | Description |
|-----------|--------|---|---|
| operator | | GetPictureSimilarity/ GetPictureSimilarity-Ack | GetPictureSimilarity: 图片比较相似度 Getpicturestability: picture comparison similarity GetPictureSimilarity-Ack: 图片比较相似度返回 Getpicturestability ack: image comparison similarity return |
| messageId | String | | 消息 id, 区分每一条消息 |

| | | | Message id to distinguish each message |
|--------------|----------------------|--|--|
| facesluiceId | String (optional) | | 人脸识别一体机 id，传入具体键值则指定匹配机器执行，不传入则订阅了相同话题的所有机器执行，建议指定单台机器执行即可。 The ID of face recognition all-in-one machine. If the specific key value is passed in, the matching machine will be assigned to execute. If not, all machines that have subscribed to the same topic will be executed. It is recommended that a single machine be designated for execution. |
| info | | | 具体内容 Specific content |
| picinfo1 | String | | 人脸图片 1 的 base64 编码数据(不超过 1M) Base64 encoded data of face picture 1 (no more than 1m) |
| picinfo2 | String | | 人脸图片 2 的 base64 编码数据(不超过 1M) Base64 encoded data of face picture 2 (no more than 1m) |

17.1 图片比较相似度

17.1 picture comparison similarity

e.g.1,图片比较相似度

e. G.1, the picture comparison similarity

```
{
  "operator": "GetPictureSimilarity",
  "messageId": "ID:localhost-637050888589478689:44009:24:40",
  "info": {
```

```
"facesluiceId":"1379743",
"picinfo1":"data:image/bmp;base64,/9j/4AAQSkZJRg/*此处省略数据*/caowl/9k=",
"picinfo1":"data:image/bmp;Base64,/9j/4aaqskzrg/* data omitted here */ caowl / 9K =,
"picinfo2":"data:image/bmp;base64,/9j/4AAQSkZJRg/*此处省略数据*/wblsf/9k="
"picinfo2":"data:image/bmp;Base64,/9j/4aaqskzjrg/* data omitted here */ wblsf /
9K=“
}
}
```

17.2 图片比较相似度返回

17.2 picture comparison similarity return

e.g.1,图片比较相似度返回

e. G.1, image comparison similarity return

```
{
"messageId":"ID:localhost-637050888589478689:44009:24:40",
"operator": "GetPictureSimilarity-Ack",
"info": {
"facesluiceId":"1379743",
"Similarity":"94.0",
"result":"ok"}
}
```

18 以图搜索本地人脸库

18 to search the local face database

以图搜索本地人脸库接口提供用图片和一体机本地人脸库进行比对，得到相应的结果。鉴于客户可能会将多台的人脸识别一体机订阅的话题设置成一致，而以图搜索本地人脸库又不需要多台设备同时执行，只要一台机器执行即可知结果，所以 facesluiceId 字段和键值传入的话，将指定具体的一台机器执行，如果不传入 facesluiceId 字段和键值，订阅了同一话题的所有机器将执行此操作。

The local face database interface is provided by graph search, and the corresponding results are obtained by comparing the images with the local face database of the all-in-one machine. In view of the fact that customers may set the subscription topics of multiple all-in-one face recognition machines to be

consistent, and it is not necessary for multiple devices to perform the search of local face database in order to find out the results as long as one machine executes, Therefore, if the faceluceid field and key value are passed in, a specific machine will be specified to execute. If the faceluceid field and key value are not passed in, all machines that subscribe to the same topic will perform this operation.

参数信息(注:optional 为可选项):

Parameter information (Note: optional is optional)

| Key | Type | Values | Description |
|--------------|----------------------|---|---|
| operator | | GetPictureSearch/ GetPictureSearch-Ack | GetPictureSearch:以图搜索本地人脸库 Getpicturesearch: search local face database with images GetPictureSearch-Ack:以图搜索本地人脸库返回 Getpicturesearch ack: search local face database by image |
| messageId | String | | 消息 id,区分每一条消息 Message id to distinguish each message |
| facesluiceId | String (optional) | | 人脸识别一体机 id, 传入具体键值则指定匹配机器执行, 不传入则订阅了相同话题的所有机器执行, 建议指定单台机器执行即可 Face recognition all-in-one machine ID. if the specific key value is passed in, it will be executed by matching machine. If not, it will be executed by all machines subscribing to the same topic. It is recommended to |

| | | | |
|---------------|--------|--|---|
| | | | specify a single machine for execution |
| info | | | 具体内容 Specific content |
| MaxSimilarity | float | | 相似度阈值 Similarity threshold |
| MaxNum | int | | 最大条数(目前只返回一条) Maximum number of entries (only one is returned at present) |
| picinfo | String | | 人脸图片的 base64 编码数据(不超过 1M) Base64 encoded data of face image (no more than 1m) |

18.1 以图搜索本地人脸库

18.1 to search the local face database

e.g.1,以图搜索本地人脸库

e. G.1 to search the local face database

```
{
  "operator": "GetPictureSearch",
  "messageId": "ID:localhost-637050888589478689:44009:24:40" ,
  "info": {
    "facesluiceId": "1379743",
    "MaxSimilarity": 80,
    "MaxNum": 1
  },
  "picinfo": "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAQAB....."
}
```

18.2 以图搜索本地人脸库返回

18.2 Search the local face database to return

以图搜索本地人脸库返回最大条数为 20 条，返回参数信息构成：人员信息+人员信息+人员信息+人员信息...，具体的字段可以参考 [4.1 增加和修改人员名单接口](#) 参数信息。

The maximum number of returned items is 20. The returned parameter information is composed of personnel information + personnel information + personnel information... Specific fields can be referred to [4.1 Add and modify personnel list interface](#) Parameter information.

```
{
  "messageId": "ID:localhost-637050888589478689:44009:24:40",
  "operator": "GetPictureSearch-Ack",
  "info": {
    "facesluiceId": "1379743",
    "TotalNum": 1,
    "SearchInfo":
    [{
      "personType": "0",
      "name": "cff",
      "cardType2": "0",
      "cardNum2": "1",
      "gender": "0",
      "nation": "1",
      "idCard": " ",
      "birthday": "2019-07-25",
      "telnum1": " ",
      "native": " ",
      "address": " ",
      "notes": " ",
      "customId": " 123cdeqw",
      "Time": "2020-07-25/17:21:15"
    }]
  },
  "result": "ok"
}
```

19 检测图片人脸

19 detect the face of the picture

检测图片人脸接口提供**粗略**检测图片中是否能提取出人脸。鉴于客户可能会将多台的人脸识别一体机订阅的话题设置成一致，而检测图片人脸又不需要多台设备同时执行，只要一台机器执行即可知结果，所以 facesluiceId 字段和键值传入的话，将指定具体的一台机器执行，如果不传入 facesluiceId 字段和键值，订阅了同一话题的所有机器将执行此操作。

The face detection interface provides rough detection of whether the face can be extracted from the image. In view of the fact that customers may set the subscription topics of multiple all-in-one face recognition machines to be consistent, and it is not necessary for multiple devices to perform image face detection at the same time. As long as one machine executes, the results can be known. Therefore, if the face luiceid field and key value are passed in, A specific machine will be specified to perform this operation. If the faceluiceid field and key value are not passed in, all machines that subscribe to the same topic will perform this operation.

参数信息(注:optional 为可选项):

Parameter information (Note: optional is optional)

| Key | Type | Values | Description |
|-----------|--------|---|---|
| operator | | DetectFaceFromPic/ DetectFaceFromPic-Ack | DetectFaceFromPic:检测图片人脸 DetectFaceFromPic: Detect faces in pictures DetectFaceFromPic-Ack:检测图片 人脸返回 DetectFaceFromPic-Ack: Detect the return of the picture face |
| messageId | String | | 消息 id,区分每一条消息 Message id to distinguish each |

| | | | message |
|--------------|----------------------|-----|--|
| facesluiceld | String (optional) | | 人脸识别一体机 id, 传入具体键值则指定匹配机器执行, 不传入则订阅了相同话题的所有机器执行, 建议指定单台机器执行即可 Face recognition all-in-one machine ID. if the specific key value is passed in, it will be executed by matching machine. If not, it will be executed by all machines subscribing to the same topic. It is recommended to specify a single machine for execution |
| info | | | 具体内容 Specific content |
| picinfo | String | | 人脸图片的 base64 编码数据(不超过 1M) Base64 encoded data of face image (no more than 1m) |
| DetectFace | Int | 0~1 | 检测结果 testing result 0: 未检测到人脸 0: no face detected 1: 检测到人脸 1: face detected |

19.1 检测图片人脸

19.1 detect face in pictures

e.g.1,检测图片人脸

E. g. 1, detect that face of a picture

```
{
```

```
"operator": "DetectFaceFromPic",
"messageId": "ID:localhost-637050888589478689:44009:24:40" ,
"info": {
"facesluiceId": "1379743",
"picinfo": "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAQAB....."
}
}
```

19.2 检测图片人脸返回

19.2 detect the return of the picture face

e.g.1,检测图片人脸返回

E. g. 1, detect that return of the picture face

```
{
"messageId": "ID:localhost-637050888589478689:44009:24:40",
"operator": "DetectFaceFromPic-Ack",
"info": {
"facesluiceId": "1379743",
"DetectFace": "1",
"result": "ok"}
}
```

20 手动推送控制记录

20 manual push control records

手动推送控制记录接口主要是解决由于服务器端的原因 [5 认证识别人员信息上传](#)接口上报的控制记录丢失，手动再次通过接口设置，一体机再次主动上传时间段内的认证结果通过认证订阅的话题 `mqtt/face/ID/Rec`（其中 ID 指本机 ID，例如 `1305433`）至服务器。本接口需要保证在连接上服务器的状态下以及开启了识别记录订阅。本接口是强制性推送搜索到的控制记录，不管是否采用断网续传模式对本接口无影响，本接口上传的控制记录**不需要服务器回复**，同时需要注意本接口上报的数据有可能因为同一条记录在之前已经上报过服务器造成的服务器同一条数据保存多次。[5 认证识别人员信息上传](#)中的 **PushType** 可以区分是否为手动推送的控制记录。

Manually pushing the control record interface is mainly to solve the server-side reasons [5. Upload the information of authentication and identification personnel](#) The control record reported by the interface is lost, so it is manually set

again through the interface, and the all-in-one machine actively uploads the authentication results within the time period to the server through the topic mqtt/face/ID/Rec (where ID refers to the local ID, for example, 1305433). This interface needs to ensure that the server is connected and the identification record subscription is opened. This interface is a control record searched by forced push. Whether the mode of disconnection and continuous transmission is adopted or not has no impact on this interface, the control record uploaded by this interface does not need to be replied by the server. At the same time, it should be noted that the data reported by this interface may be saved many times by the server because the same record has been reported to the server before. [5. Upload the information of authentication and identification personnel](#) The PushType in can distinguish whether it is a manually pushed control record.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|--------------|----------------------|---|---|
| operator | | ManualPushRecords/ ManualPushRecords-Ack | ManualPushRecords:设置手动推送控制记录 ManualPushRecords: set manual push control records ManualPushRecords-Ack: 设置手动推送控制记录返回 ManualPushRecords-Ack: set manual push control record return |
| info | | | 具体内容 Specific content |
| facesluiceId | String (optional) | | 人脸识别一体机 id, 传入具体键值则指定匹配机器执行, 不传入则订阅了相同话题的所有机器执行, 建议指定单台机器执行即可 Face recognition all-in-one machine ID. if the specific key |

| | | | |
|-----------|----------------------|---------------------|---|
| | | | value is passed in, it will be executed by matching machine. If not, it will be executed by all machines subscribing to the same topic. It is recommended to specify a single machine for execution |
| TimeS | string | YYYY-MM-DDThh:mm:ss | 需要推送的控制记录起始时间。 e.g., 2020-07-29T21:50:05 Start time of control record to be pushed. e.g., 2020-07-29T21:50:05 |
| TimeE | string | YYYY-MM-DDThh:mm:ss | 需要推送的控制记录结束时间。 e.g., 2020-07-29T21:50:05 End time of control record to be pushed. e.g., 2020-07-29T21:50:05 |
| Name | string (optional) | | 匹配准确名字的控制记录(预留) Match the control record of the exact name (reserved) |
| RecordNum | int (optional) | | 匹配的控制记录总数（返回值）， 0:未搜索到匹配数据 Total number of matched control records (return value), 0: no matching data was found |

20.1 设置手动推送控制记录

20.1 set manual push control records

e.g.1,设置手动推送控制记录

E. g. 1, set manual push control record

```
{
  "operator": "ManualPushRecords",
```

```
"messageId": "ID:localhost-637050888589478689:44009:24:40" ,
"info": {
"facesluiceId": "1326491",
"TimeS": "2020-07-28T6:00:00",
"TimeE": "2020-08-12T23:00:00"
}
}
```

20.2 设置手动推送控制记录返回

20.2 set manual push control record return

e.g.1, 设置手动推送控制记录返回

E.g.1, set manual push control record return

```
{
"messageId": "ID:localhost-637050888589478689:44009:24:40",
"operator": "ManualPushRecords-Ack",
"info": {
"facesluiceId": "1326491",
"RecordNum": "8",
"result": "ok"}
}
```

21 身份证信息上报

21 ID card information report

身份证信息上报需要 [9.6MQTT 上报参数](#) 设置身份证订阅上传，在带有身份证验证的开门模式下，刷到的身份证信息会主动上报给对应平台，设备推送身份证信息的话题是 `mqtt/face/ID/IDCard`（其中 ID 指本机 ID，例如 1305433）。

Need to report ID card information [9.6MQTT reporting parameters](#) Set up ID card subscription and upload. under the door opening mode with ID card verification, the brushed id card information will be actively reported to the corresponding platform. the topic of pushing id card information by equipment is `mqtt/face/ID/IDCard` (where id refers to the id of this machine, for example, 1305433).

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|-----------------|--------|---------------------|--|
| operator | | IDCardPush | IDCardPush:身份证信息推送 IDCardPush: ID card information push |
| info | | | 具体内容 Specific content |
| facesluiceId | String | | 人脸识别一体机 id, 传入具体键值 则指定匹配机器执行, 不传入则订 阅了相同话题的所有机器执行 Face recognition all-in-one id, pass in the specific key value to specify the matching machine to execute, and if not pass in, subscribe to all machines with the same topic to execute |
| facesluiceName | String | | 一体机名称 All-in-one machine name |
| time | String | 2020-10-30 12:01:07 | 刷身份证时间年-月-日 时:分:秒 Time of swiping ID card Year-Month-Day: Minute: Second |
| IDCard_Idno | String | | 身份证号码 ID card number |
| IDCard_Name | String | | 姓名 (full) name |
| IDCard_Gender | Int | | 性别 0: 男 1: 女 Gender 0: male 1: female |
| IDCard_Nation | Int | | 民族:详见 附录 A A.1 民族 Nationality: see Appendix a.1 Nationalities |
| IDCard_Birthday | String | 1992-06-17 | 生日:年-月-日 |

| | | | |
|-----------------|--------|-------------------|---|
| | | | Birthday: mm / DD / yyyy |
| IDCard_Address | String | | 地址 address |
| IDCard_Idissue | String | | 发证机关 Issuing authority |
| IDCard_Idperiod | String | 20090828-20190828 | 有效期:年月日-年月日 Period of validity: mm / DD / yyyy - mm / DD / yyyy |
| IDCard_photo | String | | 身份证照片 base64 编码数据 ID card photo Base64 encoded data |

21.1 身份证信息上报

21.1 id card information report

e.g.1,上报的身份证信息

e. G.1, reported ID card information

```
{
  "operator":"IDCardPush",
  "info":{
    "facesluiceId":"1326491",
    "facesluiceName":"Face1",
    "time":"2020-10-13 15:00:38",
    "IDCardInfo":{
      "IDCard_Idno":"421126198702054321",
      "IDCard_Name":"李某",
      "IDCard_Name ":" Li Mou ",
      "IDCard_Gender":0,
      "IDCard_Nation":1,
      "IDCard_Birthday":"1984-12-11",
      "IDCard_Address":"湖北省蕲春县",
      "IDCard_Address: "Qichun County, Hubei Province",
      "IDCard_Idissue":"蕲春县公安局",
      "IDCard_ "Public Security Bureau of Qichun county",
      "IDCard_Idperiod":"20090828-20190828",
```

```
"IDCard_photo":"data:image/jpeg;base64,9j/4AAQSkZJRg/*此处省略数据
*/caowl/9k="
"IDCard_photo":"data:image/jpeg;Base64, / 9j / 4aaqskzjrg / * data omitted here * / caowl / 9K="
    }
  }
}
```

22 手动推送陌生人抓拍记录

22 Manually push strangers to capture records

手动推送陌生人记录接口主要是解决由于服务器端的原因 [6 陌生人人员信息上传](#)接口上报的控制记录丢失，手动再次通过接口设置，一体机再次主动上传时间段内的陌生人抓拍记录通过陌生人订阅的话题 `mqtt/face/ID/Snap`（其中 ID 指本机 ID，例如 1305433）至服务器。本接口需要保证在连接上服务器的状态下以及开启了陌生人订阅。本接口是强制性推送搜索到的陌生人抓拍记录，不管是否采用断网续传模式对本接口无影响，本接口上传的陌生人抓拍记录**不需要服务器回复**，同时需要注意本接口上报的数据有可能因为同一条记录在之前已经上报过服务器造成的服务器同一条数据保存多次。[6 陌生人人员信息上传](#)中的 **PushType** 可以区分是否为手动推送的控制记录。

Manual push stranger record interface is mainly to solve the problem of server side [6 stranger personnel information upload](#) If the control record reported by the interface is lost, manually set it through the interface again, and the all-in-one machine can upload the snapshot records of strangers in the time period again, and send them to the server through `mqtt / face / ID / snap` (where id refers to the local ID, such as 1305433).This interface needs to ensure that the server is connected and the stranger subscription is enabled.This interface is mandatory to push the captured records of strangers searched. No matter whether the mode of continuous transmission is adopted or not, the interface will not be affected. The snapshot records uploaded by this interface do not need the server's reply,At the same time, it should be noted that the data reported by this interface may be

saved multiple times because the same record has been reported to the server before. [6 stranger personnel information upload](#) The PushType in can distinguish whether it is a manually pushed control record.

参数信息(注:optional 为可选项)

Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|--------------|----------------------|---|--|
| operator | | ManualPushSnaps/ ManualPushSnaps-Ack | ManualPushSnaps:设置手动推送陌生人记录 Manual pushsnapshots: setting up manual push stranger records ManualPushSnaps-Ack: 手动推送陌生人记录返回 Manual pushsnapshots ack: manually push stranger records back |
| info | | | 具体内容 Specific content |
| facesluiceId | String (optional) | | 人脸识别一体机 id, 传入具体键值则指定匹配机器执行, 不传入则订阅了相同话题的所有机器执行, 建议指定单台机器执行即可 Face recognition all-in-one machine ID. if the specific key value is passed in, it will be executed by matching machine. If not, it will be executed by all machines subscribing to the same topic. It is recommended to specify a single machine for execution |
| TimeS | string | YYYY-MM-DDThh:mm:ss | 需要推送的陌生人抓拍记录起始时间。e.g., 2020-11-18T08:00:00 Record the starting time of a stranger |

| | | | |
|-----------|-------------------|---------------------|--|
| | | | who needs to be pushed.e.g., 2020-11-18T08:00:00 |
| TimeE | string | YYYY-MM-DDThh:mm:ss | 需要推送的陌生人抓拍记录结束时间。e.g., 2020-11-18T23:59:59 Record the ending time of a stranger who needs to be pushed.e.g., 2020-11-18T23:59:59 |
| RecordNum | int (optional) | | 匹配的陌生人抓拍记录总数（返回值），0:未搜索到匹配数据 Total number of matched stranger snapshot records (return value), 0: no matching data was found |

22.1 设置手动推送陌生人记录

22.1 set up manual push stranger records

e.g.1,设置手动推送陌生人抓拍记录

e. G.1, set the manual push stranger capture record

```
{
  "operator": "ManualPushSnaps",
  "messageId": "ID:localhost-637050888589478689:44009:24:40" ,
  "info": {
    "facesluiceId": "1326491",
    "TimeS": "2020-11-18T6:00:00",
    "TimeE": "2020-11-18T23:00:00"
  }
}
```

22.2 设置手动推送陌生人记录返回

22.2 set the manual push stranger record to return

e.g.1,设置手动推送陌生人抓拍记录返回

```
e. G.1, set manual push stranger snapshot record return
{
"messageId":"ID:localhost-637050888589478689:44009:24:40",
"operator": "ManualPushSnaps-Ack",
"info": {
"facesluiceId":"1326491",
"RecordNum":"8",
"result":"ok"}
}
```

23 IC 或 RF 卡号上报

23 IC or RF card number report

IC 或 RF 卡号上报需要 [9.6MQTT 上报参数](#) IC 或 RF 卡号订阅上传，在带有刷卡验证的开门模式下，刷到的卡号信息会主动上报给对应平台，设备推送 IC 或 RF 卡号信息的话题是 mqtt/face/ID/Card（其中 ID 指本机 ID，例如 1305433）。

IC or RF card number reporting needs [9.6MQTT reporting parameters](#) IC or RF card number subscription upload, in the open door mode with card swiping verification, the card number information will be reported to the corresponding platform. The topic of IC or RF card number information pushed by the device is mqtt / face / ID / card (where id refers to the local ID, such as 1305433).

参数信息(注:optional 为可选项)
Parameter information (note: optional is optional)

| Key | Type | Values | Description |
|--------------|--------|----------|---|
| operator | | CardPush | CardPush:IC 或 RF 卡号信息推送 CardPush:ICOr RF card number information push |
| info | | | 具体内容 Specific content |
| facesluiceId | String | | 人脸识别一体机 id，传入具体键值 则指定匹配机器执行，不传入则订 阅了相同话题的所有机器执行 |

| | | | |
|----------------|--------|---------------------|---|
| | | | Face recognition all-in-one id, pass in the specific key value to specify the matching machine to execute, and if not pass in, subscribe to all machines with the same topic to execute |
| facesluiceName | String | | 一体机名称 All-in-one machine name |
| time | String | 2020-11-20 12:01:07 | 刷卡时间年-月-日 时:分:秒 Swiping time year month day hour: minute: Second |
| CardInfo | String | | 卡号信息关键字 Key words of card number information |
| Endian | Int | | 卡号大小端读卡模式(人脸机当前设置的大小端) Card reading mode of large and small end of card number (currently set by face machine) 0:大端模式 0: big end mode 1:小端模式 1: Small-end mode |
| CardMode | Int | | 组成 IC 或 RF (ID) 卡号采用模式, (人脸机当前设置的卡号方式) Make up IC or RF (ID) card number mode, (card number mode currently set by face machine) 0: 十进制构成卡号 0: Decimal card number 1: 十六进制构成卡号 1: Hexadecimal card number |

| | | | |
|---------|--------|--|-------------------|
| | | | |
| CardNum | String | | 卡号 Card number |

23.1 IC 或 RF 卡号上报

23.1 IC or RF card number report

e.g.1, IC 或 RF 卡号上报信息

e. G.1, information reported by IC or RF card number

```
{
  "operator": "CardPush",
  "info":
  {
    {
      "facesluiceId": "1306612",
      "facesluiceName": "Face1",
      "time": "2020-11-20 14:28:32",
      "CardInfo":
      {
        "CardMode": "1",
        "Endian": "1",
        "CardNum": "86664719"
      }
    }
  }
}
```

*附录

* Appendix

4.1 增加和修改人员名单接口错误码

4.1 Add and modify error codes of personnel list interface

| code | Type | String | Description |
|------|------|---|--|
| 200 | int | | 操作成功 The operation was successful |
| 460 | int | "Data out of range" | 单包数据超过 1M Single packet data more than 1m |
| 461 | int | "can't find customId" | 获取关键字"customId"失败 Failed to get keyword 'customid' |
| 462 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 463 | int | "pic base64 data decode err" | base64 数据解码失败 Base64 data decoding failed |
| 464 | int | "Get pic Person Feature err, please change a pic" | 提取图片人脸特征失败 Face feature extraction failed |
| 465 | int | "other" | 操作数据库失败 Operation of database failed |
| 466 | int | | 预留 reserve |
| 467 | int | "Person num is full" | 名单数据库已满 The list database is full |
| 468 | int | "get URI pic data len too short" | 获取 URI 图片数据小于 1000 字节 Get URI image data less than 1000 bytes |
| 469 | int | "get URI pic data len too long" | 获取 URI 图片数据超过 1M(图片像素限制在 1080P 以内) |

| | | | |
|-----|-----|------------------------------------|--|
| | | | Get URI image data more than 1m (picture pixels are limited to 1080p) |
| 470 | int | "get URI server ip error" | 解析图片的服务器地址失败 Failed to resolve the server address of the picture |
| 471 | int | "get pic and connect URI IP error" | 获取 URI 图片超时或者下载图片失败， (注意设备的 DNS 是否正确) Getting the URI image timed out or failed to download the image. (note whether the DNS of the device is correct) |
| 472 | int | "get pic and get URI error" | 未传入关键字"pic"且未传入关键字"picURI" The keyword "pic" was not passed in and the keyword "picuri" was not passed in |
| 473 | int | "RFIDCard already exist" | RFIDCard 卡号已存在(针对内置刷卡机型) Rfidcard card number already exists (for built-in swipe card model) |
| 474 | int | "Get WGFacilityCode error" | 获取关键字"WGFacilityCode"失败 Failed to get keyword 'wgfacility code' |
| 475 | int | "Get cardNum2 error" | 获取关键字"cardNum2"失败 Failed to get keyword 'cardnum2' |
| 476 | int | "cardNum2 already exist" | cardNum2 韦根卡号已经存在 Cardnum2 vegenka already exists |

4.2.2 查询单个人员名单详细信息错误码

4.2.2 error code for querying detailed information of single personnel list

| code | Type | String | Description |
|------|------|---------------------|--|
| 460 | int | "Data out of range" | 单包数据超过 1M Single packet data more than 1m |

| | | | |
|-----|-----|--------------------------------|---|
| 461 | int | | 预留 reserve |
| 462 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 463 | int | "Parameter customId error" | 获取关键字"customId"失败 Failed to get keyword 'customid' |
| 464 | int | "can't find customId's person" | 查询无匹配名单 Query no matching list |

4.2.3 多人名单查询错误码

4.2.3 multi person list query error code

| code | Type | String | Description |
|------|------|-----------------------|--|
| 460 | int | "Data out of range" | 单包数据超过 1M Single packet data more than 1m |
| 461 | int | | 预留 reserve |
| 462 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 465 | int | "Unknow facesluiceId" | "facesluiceId"匹配失败 "Facesluiceid" matching failed |
| 466 | int | "can not find person" | 查询无匹配名单 Query no matching list |

4.3 删除单个人员名单错误码

4.3 Delete a single personnel list error code

| code | Type | String | Description |
|------|------|-----------------------|---|
| 200 | int | | 操作成功 The operation was successful |
| 461 | int | "can't find customId" | 获取关键字"customId"失败 Failed to get keyword 'customid' |

| | | | |
|-----|-----|--------------------------------|---|
| 462 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 464 | int | "can't find customId's person" | 查询无匹配名单 Query no matching list |

4.5 删除所有人员名单错误码

4.5 Delete all personnel list error codes

| code | Type | String | Description |
|------|------|-----------------------------|---|
| 460 | int | "Data out of range" | 单包数据超过 1M Single packet data more than 1m |
| 462 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 463 | int | "Parameter deleteall error" | 获取关键字"deleteall"失败 Failed to get keyword 'deleteall' |

4.6 批量增加人员(URI)错误码

4.6 Error Code of Adding Personnel in Batch (URI)

code 是指整条命令的执行成功或失败，**errcode** 是指批量操作接口针对单个操作的错误码。

Code refers to the success or failure of the whole command execution, and **errCode** refers to the error code of batch operation interface for single operation.

| code | Type | String | Description |
|------|------|----------------------|--|
| 410 | int | "AddPersons is busy" | 批量增加接口正忙，上一个批量增加指令还未完成 The batch add interface is busy. The last batch add instruction has not been completed |

| | | | |
|-----|-----|--|--|
| 411 | | | 预留 reserve |
| 412 | int | "can not find DataBegin" | 获取关键字"DataBegin"失败 Failed to get keyword 'databegin' |
| 413 | int | "can not find DataEnd" | 获取关键字"DataEnd"失败 Failed to get keyword 'dataend' |
| 414 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 415 | int | "can not find PersonNum" | 获取关键字"PersonNum"失败 Failed to get keyword 'personnum' |
| 416 | int | "PersonNum out of range" | 名单总数超过最大值 1000 The total number of lists exceeds the maximum of 1000 |
| 417 | int | "json of person's data is not equal PersonNum" | 获取的 json 数组名单数不同于 PersonNum 的值 The number of JSON array lists obtained is different from the value of personnum |
| 418 | int | "can not find info" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 460 | int | "Data out of range" | 单包数据超过 1M Single packet data more than 1m |

| errcode | Type | String | Description |
|---------|------|--------|---|
| 461 | int | | customId 已经存在 Customid already exists |
| 462 | int | | RFIDCard 已经存在, (内置刷卡机型) Rfidcard already exists, (built-in swipe card model) |
| 463 | int | | 获取 picURI 关键字失败 Failed to get picuri keyword |
| 464 | int | | 解析图片的服务器地址失败 |

| | | | |
|-----|-----|--|---|
| | | | Failed to resolve the server address of the picture |
| 465 | int | | 获取 URI 图片超时或者下载图片失败 Getting URI image timed out or failed to download image (注意设备的 DNS 是否正确) (pay attention to whether the DNS of the device is correct) |
| 466 | int | | 获取 URI 图片数据内容失败 Failed to get URI image data content |
| 467 | int | | 图片数据过大, 不可超过 1M(图片像素限制在 1080P 以内) The image data is too large and cannot exceed 1m (picture pixels are limited to 1080p) |
| 468 | int | | 提取图片人脸特征失败 Face feature extraction failed |
| 469 | int | | 数据库写入图片数据失败 Database failed to write image data |
| 470 | int | | 数据库写入名单数据失败 Database failed to write list data |
| 471 | int | | 预留 reserve |
| 472 | int | | 预留 reserve |
| 473 | int | | 预留 reserve |
| 474 | int | | 预留 reserve |
| 475 | int | | 韦根卡号已经存在 The wegenka already exists |
| 476 | int | | 获取 WGFacilityCode 关键字失败 Failed to get wgfacilitycode keyword |

| | | | |
|-----|-----|--|---|
| 477 | int | | 获取 cardNum2 关键字失败 Failed to get cardnum2 keyword |
| 478 | int | | 人员图片和底库图片相似度过高(该人员图片已存在) The similarity between the personnel picture and the bottom database picture is too high (the personnel picture already exists) |

4.7 批量修改人员(URI)错误码

4.7 Error Code of Batch Modifier (URI)

code 是指整条命令的执行成功或失败，**errcode** 是指批量操作接口针对单个操作的错误码。

Code refers to the success or failure of the whole command execution, and **errCode** refers to the error code of batch operation interface for single operation.

| code | Type | String | Description |
|------|------|--------------------------|--|
| 410 | int | "EditPersons is busy" | 批量修改接口正忙，上一个批量修改指令还未完成 The batch modify interface is busy. The last batch modification instruction has not been completed |
| 411 | | | 预留 reserve |
| 412 | int | "can not find DataBegin" | 获取关键字"DataBegin"失败 Failed to get keyword 'databegin' |
| 413 | int | "can not find DataEnd" | 获取关键字"DataEnd"失败 Failed to get keyword 'dataend' |
| 414 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 415 | int | "can not find PersonNum" | 获取关键字"PersonNum"失败 |

| | | | |
|-----|-----|--|--|
| | | | Failed to get keyword 'personnum' |
| 416 | int | "PersonNum out of range" | 名单总数超过最大值 1000 The total number of lists exceeds the maximum of 1000 |
| 417 | int | "json of person's data is not equal PersonNum" | 获取的 json 数组名单数不同于 PersonNum 的值 The number of JSON array lists obtained is different from the value of personnum |
| 418 | int | "can not find data" | 获取关键字"data"失败 Failed to get keyword 'data' |
| 460 | int | "Data out of range" | 单包数据超过 1M Single packet data more than 1m |

| errcode | Type | String | Description |
|---------|------|--------|---|
| 461 | int | | 没传入 customId 关键字 No customid keyword was passed in |
| 462 | int | | customId 不存在，不存在此名单 Customid does not exist. This list does not exist |
| 463 | int | | 预留 reserve |
| 464 | int | | 解析图片的服务器地址失败 Failed to resolve the server address of the picture |
| 465 | int | | 获取 URI 图片超时或者下载图片失败 Getting URI image timed out or failed to download image (注意设备的 DNS 是否正确) (pay attention to whether the DNS of the device is correct) |
| 466 | int | | 获取 URI 图片数据内容失败 |

| | | | |
|-----|-----|--|---|
| | | | Failed to get URI image data content |
| 467 | int | | 图片数据过大 Image data is too large |
| 468 | int | | 提取图片人脸特征失败 Face feature extraction failed |
| 469 | int | | 数据库写入图片数据失败 Database failed to write image data |
| 470 | int | | 预留 reserve |
| 471 | int | | 预留 reserve |
| 472 | int | | 预留 reserve |
| 473 | int | | 预留 reserve |
| 474 | int | | 预留 reserve |
| 475 | int | | 预留 reserve |
| 476 | int | | 获取 WGFacilityCode 关键字失败 Failed to get wgfacilitycode keyword |
| 477 | int | | 获取 cardNum2 关键字失败 Failed to get cardnum2 keyword |
| 478 | int | | 预留 reserve |
| 479 | int | | 修改人名单信息失败 Failed to modify person list information |

4.9 批量删除人员名单错误码

4.9 Error Code of Batch Delete Personnel List

code 是指整条命令的执行成功或失败，**errcode** 是指批量操作接口针对单个操作的错误码。

Code refers to the success or failure of the whole command execution, and

errCode refers to the error code of batch operation interface for single operation.

| code | Type | String | Description |
|------|------|---|--|
| 410 | int | | 预留 reserve |
| 411 | int | | 预留 reserve |
| 412 | int | "can not find DataBegin" | 获取关键字"DataBegin"失败 Failed to get keyword 'databegin' |
| 413 | int | "can not find DataEnd" | 获取关键字"DataEnd"失败 Failed to get keyword 'dataend' |
| 414 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 415 | int | "can not find PersonNum" | 获取关键字"PersonNum"失败 Failed to get keyword 'personnum' |
| 416 | int | "PersonNum out of range" | 删除名单总数超过最大值 200 The total number of deleted lists exceeds the maximum of 200 |
| 417 | int | "json of person's data is not equal PersonNum" | 获取的 json 数组名单数不同于 PersonNum 的值 The number of JSON array lists obtained is different from the value of personnum |
| 418 | int | "can not find customId" | 获取关键字"customId"失败 Failed to get keyword 'customid' |

4.10 批量添加或修改人员(URI)错误码

4.10 Batch Add or Modify Person (URI) Error Codes

code 是指整条命令的执行成功或失败，**errcode** 是指批量操作接口针对单个操作的错误码。

Code refers to the success or failure of the whole command execution, and

errCode refers to the error code of batch operation interface for single operation.

| code | Type | String | Description |
|------|------|--|---|
| 410 | int | "EditPersonsNew is busy" | 批量添加或修改接口正忙, 上一个批量添加或修改指令还未完成 The batch add or modify interface is busy. The last batch add or modify instruction has not been completed |
| 411 | | | 预留 reserve |
| 412 | int | "can not find DataBegin" | 获取关键字"DataBegin"失败 Failed to get keyword 'databegin' |
| 413 | int | "can not find DataEnd" | 获取关键字"DataEnd"失败 Failed to get keyword 'dataend' |
| 414 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 415 | int | "can not find PersonNum" | 获取关键字"PersonNum"失败 Failed to get keyword 'personnum' |
| 416 | int | "PersonNum out of range" | 名单总数超过最大值 1000 The total number of lists exceeds the maximum of 1000 |
| 417 | int | "json of person's data is not equal PersonNum" | 获取的 json 数组名单数不同于 PersonNum 的值 The number of JSON array lists obtained is different from the value of personnum |
| 418 | int | "can not find data" | 获取关键字"data"失败 Failed to get keyword 'data' |
| 460 | int | "Data out of range" | 单包数据超过 1M Single packet data more than 1m |

| errcode | Type | String | Description |
|---------|------|--------|----------------|
| 461 | int | | 获取 customId 失败 |

| | | | |
|-----|-----|--|---|
| | | | Failed to get customid |
| 462 | int | | 预留 reserve |
| 463 | int | | 预留 reserve |
| 464 | int | | 解析图片的服务器地址失败 Failed to resolve the server address of the picture |
| 465 | int | | 获取 URI 图片超时或者下载图片失败 Getting URI image timed out or failed to download image (注意设备的 DNS 是否正确) (pay attention to whether the DNS of the device is correct) |
| 466 | int | | 获取 URI 图片数据内容失败 Failed to get URI image data content |
| 467 | int | | 图片数据过大 Image data is too large |
| 468 | int | | 提取图片人脸特征失败 Face feature extraction failed |
| 469 | int | | 数据库写入图片数据失败 Database failed to write image data |
| 470 | int | | 预留 reserve |
| 471 | int | | 预留 reserve |
| 472 | int | | 预留 reserve |
| 473 | int | | 预留 reserve |
| 474 | int | | 预留 reserve |
| 475 | int | | 韦根卡号已存在 |

| | | | |
|-----|-----|--|---|
| | | | Weigenka already exists |
| 476 | int | | 获取 WGFacilityCode 关键字失败 Failed to get wgfacilitycode keyword |
| 477 | int | | 获取 cardNum2 关键字失败 Failed to get cardnum2 keyword |
| 478 | int | | 预留 reserve |
| 479 | int | | 修改人名单信息失败 Failed to modify person list information |
| 480 | int | | RFCard 已经存在 Rfcard already exists |
| 481 | int | | 获取 picURI 关键字失败 Failed to get picuri keyword |
| 482 | int | | 读取已存在人员的图片失败 Failed to read the image of an existing person |

9.1.3 设置系统参数错误码

9.1.3 setting system parameter error code

| code | Type | String | Description |
|------|------|-------------------|---|
| 461 | | "Set param fail" | 设置参数失败 set parameters failed |
| 462 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |

9.2.3 设置声音及界面显示参数错误码

9.2.3 setting error codes for sound and interface display parameters

| code | Type | String | Description |
|------|------|-------------------|---|
| 462 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |

9.3.3 设置开门条件及输出控制错误码

9.3.3 setting door opening conditions and output control error code

| code | Type | String | Description |
|------|------|--------------------|--|
| 462 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 463 | int | "VerifyMode error" | 开门验证方式错误 Door opening verification mode error |

9.4.3 设置 HTTP 订阅推送参数错误码

9.4.3 setting HTTP subscription push parameter error code

| code | Type | String | Description |
|------|------|--------------------|---|
| 462 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 463 | int | "ServerAddr error" | HTTP 服务器地址参数错误 HTTP server address parameter error |
| 464 | int | "ServerPort error" | HTTP 服务器端口参数错误 HTTP server port parameter error |

9.5.3 设置温度参数错误码

9.5.3 setting temperature parameter error code

| code | Type | String | Description |
|------|------|-------------------|---|
| 462 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |

9.6.3 设置 MQTT 上报参数错误码

9.6.3 setting mqtt report parameter error code

| code | Type | String | Description |
|------|------|--|--|
| 462 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 463 | int | "ResumefromBreakpoint need Topic Snap or Verify" | 开启断网续传模式最少需要订阅“陌生人”、“识别记录”两者中的一个 At least one of "stranger" and "identification record" should be subscribed to in order to enable the mode |

9.8.3 设置系统时间错误码

9.8.3 setting system time error code

| code | Type | String | Description |
|------|------|----------------------|---|
| 462 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 463 | int | "Can't find SysTime" | 获取关键字"SysTime"失败 Failed to get keyword 'systime' |

9.10.3 设置人脸识别参数错误码

9.10.3 set error code of face recognition parameters

| code | Type | String | Description |
|------|------|-----------------------|--|
| 462 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 463 | int | "unknow facesluiceId" | "facesluiceId"匹配失败 "Facesluiceid" matching failed |

9.10 人脸识别最小像素与识别距离参考表

9.10 Reference Table of Minimum Pixel and Recognition Distance for Face Recognition

| 人脸识别最小像素 Minimum pixel of face recognition | 大致识别距离(m) Approximate recognition distance (m) |
|--|---|
| 100 | 2.18 |
| 120 | 1.92 |
| 140 | 1.60 |
| 150 | 1.52 |
| 160 | 1.43 |
| 180 | 1.26 |
| 200 | 1.14 |
| 220 | 1.02 |
| 240 | 0.90 |
| 260 | 0.85 |

| | |
|-----|------|
| 280 | 0.83 |
| 300 | 0.78 |
| 350 | 0.67 |
| 400 | 0.50 |
| 450 | 0.48 |
| 500 | 0.45 |
| 550 | 0.41 |
| 600 | 0.37 |
| 650 | 0.34 |
| 700 | 0.3 |
| 750 | 0.27 |
| 800 | 0.24 |

12.1 增加/修改广告错误码

12.1 add/modify advertising error codes

| code | Type | String | Description |
|------|------|-------------------------|---|
| 461 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 462 | int | "Can't find adslot" | 获取关键字"adslot"失败 Failed to get keyword 'adslot' |
| 463 | int | "AD num is full" | 传入的"adslot"超过最大值 The passed in 'adslot' exceeds the maximum value |
| 465 | int | "AD file download fail" | 下载广告内容失败 Failed to download ad content |

| | | | |
|-----|-----|-----------------------|--|
| 467 | int | "unknow facesluiceId" | "facesluiceId"匹配失败 "Facesluiceid" matching failed |
|-----|-----|-----------------------|--|

12.3 删除广告错误码

12.3 delete advertising error code

| code | Type | String | Description |
|------|------|-----------------------|--|
| 461 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 462 | int | "Can't find adslot" | 获取关键字"adslot"失败 Failed to get keyword 'adslot' |
| 463 | int | "adslot out of range" | 传入的"adslot"超过最大值 The passed in 'adslot' exceeds the maximum value |

13.1 获取语音文件错误码

13.1 get the error code of voice file

| code | Type | String | Description |
|------|------|--------------------|---|
| 462 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 463 | int | "Can't find Audio" | 获取声音文件失败，无声音文件 Failed to get sound file, no sound file |

13.3 播放语音文件错误码

13.3 play the voice file error code

| code | Type | String | Description |
|------|------|------------------------------|---|
| 462 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 463 | int | "can't find voicetype param" | 获取关键字"voicetype "失败 |

| | | | |
|-----|-----|----------------------------|--------------------------------------|
| | | | Failed to get keyword 'voicetype' |
| 464 | int | "can't find VoiceFileName" | 音频文件不存在 Audio file does not exist |
| 465 | int | | 预留 reserve |

14.1 设置二维码图像错误码

14.1 set the QR code image error code

| code | Type | String | Description |
|------|------|-------------------------------|--|
| 462 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 463 | int | "can't find QRCodeData Param" | 获取关键字"QRCodeData "失败 Failed to get keyword 'qrcodedata' |
| 464 | int | "Unknow facesluiceId" | "facesluiceId"匹配失败 "Facesluiceid" matching failed |

16.1 获取抓拍场景图错误码

16.1 get the error code of snapshot scene graph

| code | Type | String | Description |
|------|------|------------------------------------|--|
| 462 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 463 | int | "GetSceneSnap error" | 获取全景图抓拍失败 Failed to capture panorama |
| 464 | int | "Version not support GetSceneSnap" | 此版本不支持此接口 This interface is not supported in this version |
| 465 | int | "Unknow facesluiceId" | "facesluiceId"匹配失败 "Facesluiceid" matching failed |

17.1 图片比较相似度错误码

17.1 picture comparison similarity error code

| code | Type | String | Description |
|------|------|-----------------------------------|--|
| 462 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 463 | int | "Unknow facesluiceId" | "facesluiceId"匹配失败 "Facesluiceid" matching failed |
| 464 | int | "Unknow pic1info" | 获取关键字"pic1info"失败 Failed to get keyword 'pic1info' |
| 465 | int | "Unknow pic2info" | 获取关键字"pic2info"失败 Failed to get keyword 'pic2info' |
| 466 | int | "base64_decode pic1info error" | "pic1info"base64 数据解码失败 "Pic1info" Base64 data decoding failed |
| 467 | int | "GetPersonFeature pic1info error" | 获取"pic1info"的图像人脸特征失败(请更换图片, 或检查图片的 base64 数据是否正确) Failed to obtain the facial features of "pic1info" (please replace the picture or check whether the base64 data of the picture is correct) |
| 468 | int | "base64_decode pic2info error" | "pic2info"base64 数据解码失败 "Pic2info" Base64 data decoding failed |
| 469 | int | "GetPersonFeature pic2info error" | 获取"pic2info"的图像人脸特征失败(请更换图片, 或检查图片的 base64 数据是否正确) Failed to obtain the facial features of "pic2info" (please replace the picture or check whether the base64 data of the picture is correct) |

18.1 以图搜索本地人脸库错误码

18.1 try to search the local face database for error codes

| code | Type | String | Description |
|------|------|----------------------------------|---|
| 460 | int | "Data out of range" | 单包数据超过 1M Single packet data more than 1m |
| 461 | int | "Unkonw facesluiceId" | "facesluiceId"匹配失败 "Facesluiceid" matching failed |
| 462 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 463 | int | "Unkonw MaxSimilarity" | 获取关键字"MaxSimilarity"失败 Failed to get keyword 'maxsimilarity' |
| 464 | int | "Unkonw MaxNum" | 获取关键字"MaxNum"失败 Failed to get keyword 'maxnum' |
| 465 | int | "Unkonw picinfo" | 获取关键字"picinfo"失败 Failed to get keyword 'picinfo' |
| 466 | int | "No Meet Conditions Person" | 无匹配人员 No matching personnel |
| 467 | int | "GetPersonFeature picinfo error" | 获取"picinfo"的图像人脸特征失败(请更换图片，或检查图片的 base64 数据是否正确) Failed to obtain the facial features of "picinfo" (please replace the picture or check whether the base64 data of the picture is correct) |
| 468 | int | "base64_decode picinfo error" | "picinfo"base64 数据解码失败 "Picinfo" Base64 data decoding failed |

19.1 检测图片人脸错误码

19.1 detect face error codes of pictures

| code | Type | String | Description |
|------|------|-------------------------------|---|
| 462 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 463 | int | "Unknow facesluiceId" | "facesluiceId"匹配失败 "Facesluiceid" matching failed |
| 464 | int | "Unknow picinfo" | 获取关键字"picinfo"失败 Failed to get keyword 'picinfo' |
| 465 | int | "base64_decode picinfo error" | "picinfo"base64 数据解码失败 "Picinfo" Base64 data decoding failed |

20.1 设置手动推送控制记录错误码

20.1 set the manual push control record error code

| code | Type | String | Description |
|------|------|--|--|
| 462 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 463 | int | "Unknow facesluiceId" | "facesluiceId"匹配失败 "Facesluiceid" matching failed |
| 464 | int | "Unknow TimeS" | 获取关键字"TimeS"失败 Failed to get keyword 'times' |
| 465 | int | "Unknow TimeE" | 获取关键字"TimeE"失败 Failed to get keyword 'timee' |
| 466 | int | "Can't Find any record issue, please check TimeS and TimeE" | 无匹配的控制记录 No matching control records |
| 467 | int | "Unknow RecordUploadType" | 此接口需要先订阅“识别记录”上传 This interface needs to subscribe to the |

| | | | |
|--|--|--|--------------------------------------|
| | | | "identification record" upload first |
|--|--|--|--------------------------------------|

22.1 设置手动推送陌生人记录错误码

22.1 set manual push stranger record error code

| code | Type | String | Description |
|------|------|--|--|
| 462 | int | "Parameter error" | 获取关键字"info"失败 Failed to get keyword 'info' |
| 463 | int | "Unknow facesluiceId" | "facesluiceId"匹配失败 "Facesluiceid" matching failed |
| 464 | int | "Unknow TimeS" | 获取关键字"TimeS"失败 Failed to get keyword 'times' |
| 465 | int | "Unknow TimeE" | 获取关键字"TimeE"失败 Failed to get keyword 'timee' |
| 466 | int | "Can't Find any snap issue, please check TimeS and TimeE" | 无匹配的陌生人抓拍记录 No matching stranger snapshot record |
| 467 | int | "Unknow StrangerUploadType" | 此接口需要先订阅“陌生人”上传 This interface needs to subscribe to "stranger" upload first |

附录 A

Appendix A

A.1 民族

A.1 Ethnic groups

| | |
|-----------------------------------|--------------------|
| 民族数值代码(int) National numerical | 民族 ethnic group |
|-----------------------------------|--------------------|

| code (int) | |
|------------|----------------------|
| 1 | 汉 Chinese |
| 2 | 蒙古 Mongolia |
| 3 | 回 back |
| 4 | 藏 hide |
| 5 | 维吾尔 Uygur |
| 6 | 苗 seedling |
| 7 | 彝 Yi ethnic group |
| 8 | 壮 strong |
| 9 | 布依 Buyi |
| 10 | 朝鲜 North Korea |
| 11 | 满 full |
| 12 | 侗 ignorant |
| 13 | 瑶 beautiful jade |
| 14 | 白 white |
| 15 | 土家 Tujia |
| 16 | 哈尼 Hani |
| 17 | 哈萨克 |

| | |
|----|---------------------|
| | Kazakh |
| 18 | 傣 Dai (DA) |
| 19 | 黎 black |
| 20 | 傈僳 Lisu |
| 21 | 佤 Va (VA) |
| 22 | 畲 slash and burn |
| 23 | 高山 high mountain |
| 24 | 拉祜 Lahu |
| 25 | 水 water |
| 26 | 东乡 a surname |
| 27 | 纳西 Naxi |
| 28 | 景颇 Jingpo |
| 29 | 柯尔克孜 Kirgiz |
| 30 | 土 soil |
| 31 | 达斡尔 Daur' er |
| 32 | 仡佬 Mulao |
| 33 | 羌 Qiang |
| 34 | 布朗 |

| | |
|----|---------------------------|
| | Brown |
| 35 | 撒拉 Sarah |
| 36 | 毛南 Maonan |
| 37 | 仡佬 Gelao |
| 38 | 锡伯 Xibo |
| 39 | 阿昌 Achang |
| 40 | 普米 Pumi |
| 41 | 塔吉克 Tadzhikistan |
| 42 | 怒 vigorous |
| 43 | 乌孜别克 Wuzi Buick |
| 44 | 俄罗斯 Russia |
| 45 | 鄂温克 ewenki |
| 46 | 德昂 Deang |
| 47 | 保安 security guard |
| 48 | 裕固 Yugu |
| 49 | 京 capital of a country |
| 50 | 塔塔尔 Tatar |
| 51 | 独龙 |

| | |
|----|---------------|
| | Dulong |
| 52 | 鄂伦春 oroqen |
| 53 | 赫哲 Hezhe |
| 54 | 门巴 doctor |
| 55 | 珞巴 Luoba |
| 56 | 基诺 Keno |
| 57 | 其他 other |