HTTP interface protocol for face recognition all in one machine V1.33

catalog

1. summary....7
2. Interface principle....7
2.1 request method....7
2.2 data type and format....7
Grammar....7
2.4 identity authentication....8
3. Specific function interface....9
3.1 sound settings....9
3.1.1 obtaining audio setting parameters....12
3.1.2 setting audio parameters....13
3.1.3 get the number and file name of playing files....14
3.1.4 play specified file sound....15
3.2 door opening conditions....16
3.2.1 obtain the setting parameters of door opening conditions....20
3.2.2 setting door opening condition parameters....22
3.2.3 introduction of door opening mode....24
3.3 setting user name and password....26
3.4 network parameters....26
3.4.1 obtaining network parameters....28
3.4.2 setting network parameters....28
3.5 time parameters....29
3.5.1 obtaining system time....29
3.5.2 setting system time....30
3.6 NTP parameters....31
3.5.1 obtaining NTP parameters....33
3.5.2 setting NTP parameters....33
3.7 central connection....34
3.5.1 obtaining central connection parameters....35
3.5.2 setting central connection parameters....35
3.8 restoration of factory....36
3.9 equipment information....39
3.9.1 obtaining equipment information....40
3.9.2 setting device information....40
3.10 addition, editing and modification of the list....41
3.10.1 single list addition....48
3.2 add more than 10 lists....52
3.10.3 list editing and modification....54
3.10.4 getting the old and new database versions....57
3.10.5 Wigan access card number and built-in swipe ID card number....58
3.11 deletion of the list....59
3.11.1 deletion of single or multiple lists....59
3.11.2 deletion of all personnel list....62
3.12 data subscription....62

3.12.1 push information does not require authentication....66
3.12.2 user name and password shall be provided during subscription, and authentication is required for submission....69
3.12.3 strangers snapshot Report....71
3.12.4 reporting of certification results....73
3.12.5 QR code reporting....82
3.12.6 reporting of ID card information....83
3.12.7 report of IC card number certification results (access control)....84
3.12.8 report of password authentication results (access control machine)....85
3.12.9 query subscribed information....85
3.13 unsubscribe....88
3.14 subscription heartbeat....91
3.15 access camera parameters....92
3.15.1 access camera parameters....93
3.15.2 setting access camera parameters....94
3.16 server parameters of face capture comparison....95
3.16.1 get server parameters....96
3.16.2 setting server parameters....97
3.17 personnel type parameters....97
3.17.1 get personnel type parameter....98
3.17.2 setting personnel type parameters....99
3.18 face service function....100
3.18.1 image extraction feature code....100
3.18.2 feature code comparison similarity....101
3.18.3 obtaining face images....103
3.19 list search query....104
3.19.1 single list query....108
3.19.2 total number of query lists....111
3.19.3 multiple list queries....113
3.20 door opening control....118
3.21 password operation....120
3.21.1 temporary password acquisition....120
3.21.2 password addition....121
3.21.3 password deletion....121
3.21.4 all passwords are cleared....122
3.22 control record query....123
3.22.1 total number of control records query....126
3.22.2 control record personnel information query....127
3.23 common configuration settings....138
3.23.1 obtaining common setting parameters....139
3.23.2 setting common parameters....140
3.24 restart the device....140

3.25 image service function..... 141
3.25.1 picture comparison similarity..... 141
3.25.2 search local face database by graph..... 142
3.25.3 face detection..... 146
3.25.4 manual capture..... 147
3.26 capture record query..... 148
3.26.1 query of total number of snapshot records..... 150
3.26.2 personnel information query of capture record..... 151
3.27 temperature parameters..... 158
3.27.1 obtaining temperature parameters..... 159
3.27.2 setting temperature parameters..... 160
3.28 handshake protocol data..... 161
3.28.1 obtaining handshake protocol data..... 162
3.28.2 setting handshake protocol data..... 162
Version 3.29 upgrade..... 163
3.29.1 version upgrade interface 1..... 163
3.30 system parameters..... 164
3.30.1 obtaining system parameters..... 166
3.30.2 setting system parameters..... 167
3.31 mqtt parameters..... 168
3.31.1 getting mqtt parameters..... 170
3.31.2 setting mqtt parameters..... 170
3.32 manual push control record..... 171
3.32.1 setting manual push control record..... 172
3.33 WiFi parameters..... 173
3.33.1 getting WiFi parameters..... 174
3.33.2 setting WiFi parameters..... 175
3.34 face recognition parameters..... 175
3.34.1 obtaining face recognition parameters..... 176
3.34.2 setting face recognition parameters..... 177
Appendix A:Revision history..... 178
Appendix B:Authentication failure or message reply of setting interface..... 187
B. 1 authentication failed..... 187
B. 2 set message reply..... 187
Appendix C:Specific functions of packet capture interface..... 189
C. 1 sound settings..... 189
C. 1.1 get audio setting parameters..... 189
C. 1.2 setting audio parameters..... 190
C. 1.3 get the number and file name of playing files..... 191
C. 1.4 play specified file sound..... 192
C. 2 door opening conditions..... 193
C. 2.1 setting of door opening conditions..... 193
C. 2.2 setting door opening condition parameters..... 195
C. 3. Set user name and password..... 196

C. 4 network parameters..... 197
C. Obtaining network parameters..... 197
C. 4.2 setting network parameters..... 198
C. 5 time parameters..... 199
C. 5.1 obtaining system time..... 199
C. 5.2 setting system time..... 200
C. 6 NTP parameters..... 201
C. 6.1 obtaining NTP parameters..... 201
C. 6.2 setting NTP parameters..... 202
C. 7 center connection..... 203
C. 7.1 obtaining central connection parameters..... 203
C. 7.2 setting central connection parameters..... 204
C. 8 restore factory..... 205
C. 9 setting information..... 206
C. 9.1 obtaining equipment information..... 206
C. 9.2 setting device information..... 207
C. 10 addition, editing and modification of the list..... 208
C. 10.1 single list addition..... 208
C. 10.2 multiple lists added..... 210
C. 10.3 list editing and modification..... 211
C. 10.4 getting the old and new database versions..... 212
C. 11 list deleted..... 213
C. 12 data subscription..... 214
C. 12.1 push messages do not require authentication..... 214
C. 12.2 user name and password shall be provided during subscription, and authentication is required for submission..... 215
C. 3.12 report to strangers..... 216
C. 12.4 reporting of certification results..... 217
C. 12.4.1 reply the data packet with the server of network interruption and continuous transmission..... 218
C. 12.5 reporting of ID card information..... 219
C. 12.6 query subscribed messages..... 219
C. 13 unsubscribe..... 220
C. 14 subscription heartbeat..... 221
C. 19 search list..... 222
C. 19.1 single list query..... 222
C. 19.2 total number of query lists..... 223
C. 19.3 multiple list queries..... 224
C. 20 door opening control..... 226
C. 20.1 door opening control..... 226
C. 22 control record query..... 226
C. 23 common setting parameter setting..... 229
C. 23.1 obtaining common setting parameters..... 229
C. 23.2 setting common parameters..... 230

C. 24 restart device 231
C. 24.1 restarting the device 231
C. 25 picture service function 232
C. 25.1 picture comparison similarity 232
C. 25.2 search local face database by graph 233
C. 25.3 face detection in pictures 234
Appendix D others 235
D. 1 nation 235

1. summary

This document is mainly used for HTTP docking of face recognition all-in-one machine, and is applicable to system development and maintenance personnel.

2. Interface principle

This data interface specification adopts standard HTTP protocol for communication, and the requirements are as follows:

2.1 request method

The request method uses the post method, and the data sent and uploaded is placed in the entity body.

2.2 data type and format

2.2.1 all strings shall be encoded in UTF-8 character set.

2.2.2 the data exchanged by both parties shall be packaged in JSON format. The basic format is as follows:

```
{
    "operator": "<Operator>",
    "info": {<Info>},
    ……
}
```

For more details, please check3. Specific function interfaceThe specific data format of each interface.

2.2.3 Base64 encoding or image URI is used for all image data.

2.2.4 content length must be included in the header of all HTTP interactions. Pay attention to case sensitivity.

Grammar

Request URI format: http: / / < server IPADDR > / action / < operator >.Where < server IPADDR >: IP address of the requested all-in-one

face recognition machine; < operator >: operation content, please check3. Specific function interface。

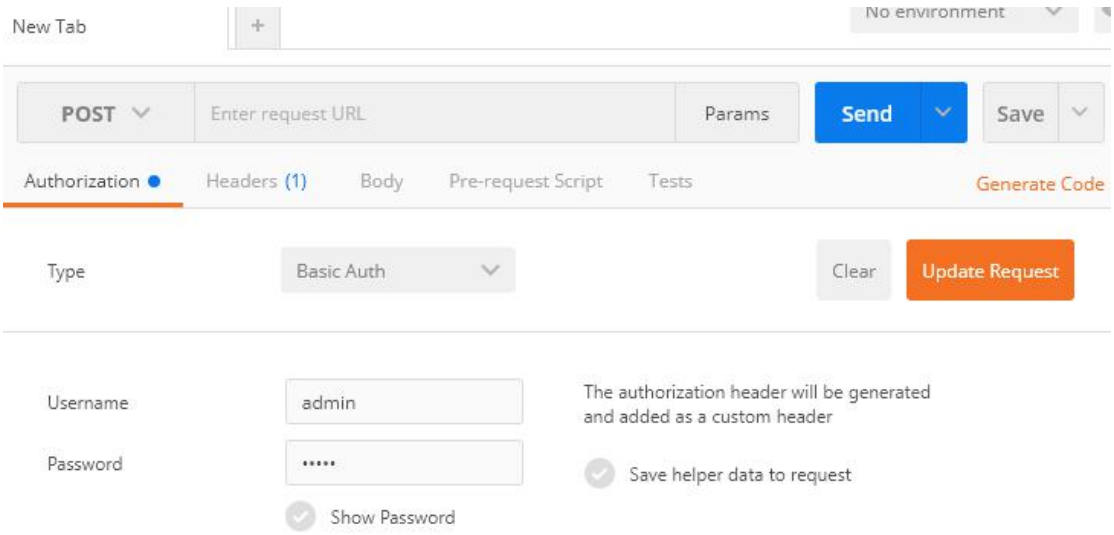
2.4 identity authentication

In order to ensure the security of data transmission, the basic mode is used temporarily for authentication when the data is formally transmitted.The typical data of the authorization header is "authorization: basic jdhahy0 =", where basic represents basic authentication, and jdhahy0 = is the base64 encoded "user: passwd" string.For example, if the user name of the all-in-one machine is "admin" and the password is "admin", then the base64 code of "admin: admin" in the header of sending data is "ywrtaw46ywrtaw4 =", and the authentication of sending data ID card is as follows:

```
POST /action/AddPerson HTTP/1.1
Host: 172.168.2.96
Authorization: Basic YWRtaW46YWRtaW4=
Content-Type: text/plain

{
"operator": "AddPerson",
"info": {
    "DeviceID":1305433,
    "PersonType": 0,
    "Name":"张三",
    "Gender":0,
    "Nation":0,
    "CardType":0,
    "IdCard":"430923199011044411",
    "Birthday":"1990-11-04",
    "Telnum":"18888888888",
    "Native":"广东",
    "Address":"深圳宝安",
    "Notes":"备注",
"MjCardFrom": 2,
"WiegandType":7,
```

If postman is used as an example to debug the interface, select basic auth under authorization, enter the user name and password, and click update request. Postman will automatically encrypt the user name and password to the headers, as shown in the following figure:



After setting, select post request mode, input the URL of corresponding function interface, and click send.

3. Specific function interface

3.1 sound settings

Gets or sets parameters for system audio settings.

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	GetSound or SetSound	GetSound:Gets the parameters of the audio settings SetSound: Setting audio data parameters
info	json object		concrete content
VerifySuccAudio	int (optional)	0~1	Whether the authentication is successful or not 0: No broadcasting 1: Broadcast
VerifyFailAudio	int (optional)	0~1	If authentication fails, is voice broadcast

			0: No broadcasting 1: Broadcast
RemoteCtrlAudio	int (optional)	0~1	Remote control of sound playback 0:Non remote 1:Remote playback
Volume	int (optional)	5 ~ 100 Increase every 5 values	Volume value
VerifySuccGuiTip	int (optional)	0~1	Is the authentication successful interface prompted 0: No hint 1: Tips
VerifyFailGuiTip	int (optional)	0~1	Is the authentication failure interface prompted 0: No hint 1: Tips
UnregisteredGuiTip	int (optional)	0~1	List not registered interface prompt 0: No hint 1: Tips
IPHide	int (optional)	0~1	Is the interface IP hidden 0: Don't hide it 1: hide
IsShowName	int (optional)	0~2	If the comparison is successful, is the name prompt displayed 0: Do not show 1: display 2: Partial display (hide back part)
IsShowTitle	int (optional)	0~1	Display (discard) screen Title prompt 0: Do not show (default) 1: display

IsShowVersion	int (optional)	0~1	Display the interface version number prompt (discard) 0: Do not show (default) 1: display
IsShowDate	int (optional)	0~1	Discard date 0: Do not show 1: display
IDCardNumHide	int (optional)	0~1	Whether the interface card number is hidden (built-in card reader) 0: Don't hide it 1: hide
ICCardNumHide	int (optional)	0~1	Whether the IC card number of the interface is hidden (except for the built-in card reader) 0: Don't hide it 1: hide
DisplayPicture	int (optional)	0~1	Image displayed after comparison 0: Capture images 1: Registration image
IsShowDeviceID	int (optional)	0~1	Display native ID 0: Do not show 1: display
IsShowPersonNum	int (optional)	0~1	Displays the number of registered lists 0: Do not show 1: display
VerifyTipContent	String (optional)	custom	UI text prompt for successful authentication (the length is less than 32 bytes, which

			cannot be too long, otherwise the UI display is incomplete) Default: please pass
UnregisterTipContent	String (optional)	custom	UI text prompt is not registered in the list (the length is less than 32 bytes, otherwise the UI display is incomplete) Default: stranger
BlacklistTipContent	String (optional)	custom	UI text prompt of authentication failure (the length is less than 32 bytes, otherwise the UI display is incomplete) Default: no access

3.1.1 obtaining audio setting parameters

Operator: **GetSound**

URI: **http://<server ipaddr>/action/GetSound**

e.g.,

http://172.168.2.10/action/GetSound

Reply to body:

```
{
  "operator":  "GetSound",
  "info":  {
  "VerifySuccAudio":  1,
  "VerifyFailAudio":  1,
  "RemoteCtrlAudio":  0,
  "Volume":  80,
  "VerifySuccGuiTip":  1,
  "VerifyFailGuiTip":  1,
  "UnregisteredGuiTip":  1,
  "IPHide":  0,
```

```
  "IsShowName":  1,
  "DisplayPicture": 0,
  "IsShowTitle":  0,
  "IsShowVersion":  0,
  "IsShowDate":  1,
  "IsShowTime":  1,
  "ICCardNumHide":  0,
  "Verifytipcontent": "please pass",
  "Unregistertipcontent": "stranger,",
  "Blacklisttipcontent": "no access"

  }
}
```

3.1.2 setting audio parameters

Operator: SetSound
URI: http://<server ipaddr>/action/SetSound

e.g.,
http://172.168.2.10/action/SetSound
Issue body:

```
{
   "operator": "SetSound",
   "info":
   {
        "VerifySuccAudio":1,
        "VerifyFailAudio":1,
        "RemoteCtrlAudio":1,
        "Volume":50,
        "VerifySuccGuiTip":1,
        "VerifyFailGuiTip":1,
        "UnregisteredGuiTip":1,
        "IPHide": 0,
        "IsShowName": 1,
        "DisplayPicture": 0,
        "ICCardNumHide": 0,
        "Verifytipcontent": "please pass",
        "Unregistertipcontent": "stranger,",
        "Blacklisttipcontent": "no access"
```

```
    }
}
```

3.1.3 get the number and file name of playing files

Parameter information:

Key	Type	Values	Description
operator	char	GetAudio	SetAudio:Get a playable audio file
info	json object		concrete content
AudioNum	int		Number of audio files
AudioName	json array		A collection of single or multiple audio file names in the format of a JSON array of audio file names

Operator: **GetAudio**

URI: **http://<server ipaddr>/action/GetAudio**

e.g.,

http://172.168.2.10/action/GetAudio

Reply to body:

```
{
    "operator": "GetAudio",
    "info": {
        "AudioNum": 1,
        "AudioName": [
            "welcome.wav",...
        ]
    }
}
```

3.1.4 play specified file sound

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	SetAudio	SetAudio:Set to play the specified audio file
info	json object		concrete content
DeviceID	int		Device ID
AudioType	int	0~1	Type of playback file 0:Play machine local files 1:Play custom file
AudioName	char (optional)		Name of audio file to be played (must be wav file, sampling rate: 16000hz, sampling bits: 16 bits, mono.64 byte file name)

Operator: **SetAudio**

URI: **http://<server ipaddr>/action/SetAudio**

e.g.,

http://172.168.2.10/action/SetAudio

Issue body:

```
{
    "operator": "SetAudio",
    "info": {
    "DeviceID":1300001,
    "AudioType":0,
    "AudioName":"welcome.wav"

    }
}
```

3.2 door opening conditions

Gets or sets the door opening condition parameters.

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	GetDoorCondition or SetDoorCondition	GetDoorCondition: Get door opening condition setting parameters SetDoorCondition: Setting door opening condition parameters
info	json object		concrete content
FaceThreshold	int (optional)	50 ~ 100	Black and white list comparison threshold
IDCardThreshold	int (optional)	50 ~ 100	Threshold comparison ID card
OpendoorWay	int (optional)	0~3	0:Face opening mode, 1:Remote door opening mode, 2:Remote door opening or face mode 3:Face verification + remote door opening mode
VerifyMode	int (optional)	1: General neutral machine: 1 ~ 4 or 21 ~ 26 2: Mask or temperature measuring machine: whether mask detection or temperature detection or (|) operation based door opening	Basic door opening verification mode.(the following base types are decimal) 1: Whitelist verification 2: ID card verification 3: White list + ID card 4: White list or ID card 5:Single mask or body

		verification method is required. Support mask detection or (|) operation, and 0x100 indicates mask detection and verification; Support temperature detection or (|) operation, and 0x200 indicates that it has temperature detection verification; Support mask + body temperature detection or (|) operation, and 0x300 indicates that it has mask + body temperature detection verification; For example: 1: Ordinary neutral machine 1) Whitelist verification: 1 2) Wegenka + whitelist verification: 25 2: Mask or temperature measuring machine	temperature or separate mask + body temperature 21:RF card verification (built-in swipe card model) 22:RF card verification + whitelist Verification (built-in swipe card model) 23:RF card verification or whitelist verification (built-in swipe card model) 24:Wegenka verification 25:Wegenka + whitelist verification 26:Wegenka or whitelist verification

		1) Single pass mask 2) Mask + whitelist verification (0x101 = 0x100 & 1 = 257) 3) Individual body temperature pass (0x205 = 0x200 & 5 = 517) 4) Body temperature + whitelist verification (0x201 = 0x200 & 1 = 513) 5) Single mask + body temperature (0x305 = 0x300 & 5 = 773) 6) Mask + body temperature + Wigan swipe card + whitelist verification (0x319 = 0x300 & 25 = 793)	
VerifyResetTime	int (optional)	1~10	Verify reset time (seconds) The UI displays the prompt information and the time that the same person does not recognize again during the reset time
Wiegand	int (optional)	0~1	The type of Wigan agreement. 0: 26 1: 34

			4:26 bits (8 + 16): facility code + userid (equipment code + card number); 5:34 bits (8 + 24); 6:The number of digits to be filled in is 26 (16); 7:34 digits (8 + 24 to be filled in separately);
PublicMjCardNo	unsigned int (optional)		Public access card number
AutoMjCardBgnNo	unsigned int (optional)		Automatically generate the start card number of the access control card number
AutoMjCardEndNo	unsigned int (optional)		Automatically generate the end card number of access control card number
ControlType	int (optional)	0~2	Control door opening interface mode. 0:Wigan interface 1:Switching value 2: Wigan interface + switching value
IOType	int (optional)	0~1	Open the door when controlling the opening interface mode. 0:close 1:to break off
IOStayTime	int (optional)		Holding time (MS)
Endian	int (optional)	0~1	Card reading mode 0:Big end mode 1:Small end mode

CardMode	int (optional)	0~1	Card number mode 0:decimal system 1:hexadecimal
IsOutFF	int (optional)	0~1	Stranger Wigan outputs 8 F's (Wigan opens the door) 0: No output 1: output
SnapResetTime	int (optional)	0-15 (default 0)	Identification interval time (s): identify the next person by comparing the waiting time after passing the comparison

3.2.1 obtain the setting parameters of door opening conditions

Operator: **GetDoorCondition**

URI:**http://<server ipaddr>/action/GetDoorCondition**

e.g.,

http://172.168.2.10/action/GetDoorCondition

Reply to body:

3.2.1.1. The opening interface mode is switch value:


```
{
    "operator": "GetDoorCondition",
    "info": {
        "FaceThreshold": 80,
        "IDCardThreshold": 50,
        "VerifyResetTime":  2,
        "OpendoorWay": 0,
        "VerifyMode": 1,
        "ControlType": 1,
        "IOType": 0,
        "IOStayTime": 6,
        "Endian": 0,
```

```
        "CardMode": 0,
        "SnapResetTime": 0
    }
}
```

1.1.1.2.1.1.2.1.2.1.2.1.1.2.1.1.2.1.2.1.1.2.1.1.1

```
        "PublicMjCardNo": 2,
        "AutoMjCardBgnNo": 2,
        "AutoMjCardEndNo": 4,
        "IOStayTime": 6,
        "Endian": 0,
        "CardMode": 0

    }
}
```

3.2.2 setting door opening condition parameters

Operator: **SetDoorCondition**

URI:**http://<server ipaddr>/action/SetDoorCondition**

e.g.,

http://172.168.2.68/action/SetDoorCondition

Issue body:

3.2.2.1. The opening interface mode is switch value:

```
{
    "operator": "SetDoorCondition",
    "info": {
        "FaceThreshold": 90,
        "IDCardThreshold": 50,
        "OpendoorWay": 0,
        "VerifyMode": 1,
        "ControlType": 1,
        "IOType": 0,
        "IOStayTime": 200,
        "Endian": 0,
        "CardMode": 1,
        "SnapResetTime": 0
    }
}
```

3.2.2.2.2. The door opening interface mode is Wigan interface:

```
{
    "operator": "SetDoorCondition",
    "info": {
        "FaceThreshold": 90,
        "IDCardThreshold": 50,
        "OpendoorWay": 0,
        "VerifyMode": 1,
        "ControlType": 0,
        "Wiegand": 0,
        "PublicMjCardNo": 2,
        "AutoMjCardBgnNo": 2,
        "AutoMjCardEndNo": 4,
        "IOStayTime": 200,
        "Endian": 0,
        "CardMode": 1
    }
}
```

3.2.2.3. The mode of door opening interface is Wigan interface + switch value:

```
{
    "operator": "SetDoorCondition",
    "info": {
        "FaceThreshold": 90,
        "IDCardThreshold": 50,
        "OpendoorWay": 0,
        "VerifyMode": 1,
        "ControlType": 0,
        "Wiegand": 0,
        "PublicMjCardNo": 2,
        "AutoMjCardBgnNo": 2,
        "AutoMjCardEndNo": 4,
        "IOStayTime": 200,
        "Endian": 0,
        "CardMode": 1
```

```
    }
}
```

3.2.3 introduction of door opening mode

At present, the following face recognition modes are supported:Face opening mode, remote door opening mode, remote door opening or face opening mode, face verification + remote door opening mode.

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: This method is used for remote comparison of door opening information, which can be used for remote comparison of door opening information, remote capture of door opening information, remote capture of door opening information, remote capture of door opening mode information.

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: Face verification + remote door opening mode: the face recognition integration opportunity pushes the stranger snapshot information and authentication comparison information. If the comparison is passed, the door opening and UI information prompts will not be executed directly. The door opening information and UI prompt need to be attached with the opening information and UI prompt in the reply to the received authentication push data package.This mode requires HTTP to be set in the mode of offline and continuous transmission, and the authentication subscription is enabled.In this case, if you receive the confirmation information from the JSON open-door platform, you will directly send the confirmation message to the JSON open-door authentication platform (if you do not need to send the confirmation message to the JSON open-door authentication platform), if you do not need to send the confirmation message to the HTTP open-door authentication platform, you need to send the confirmation message directly to the JSON open-door authentication platform.In this mode, it is necessary to exclude whether the authentication data pushed is the authentication comparison data of network disconnection and continuous transmission. If it is the authentication data of network disconnection and remote door opening, the

returned data packet does not need to perform the opening action again.

Face verification + remote door opening method is adopted to reply the information confirmation package received from authentication subscription when the network is disconnected for continuous transmission

Parameter information (Note: optional is optional)

Key	Type	Values	Description
code	int	200	Required field in continuous transmission mode
desc	char	OK	Required field in continuous transmission mode
openDoor	int (optional)	0~1	Door opening action 0: don't open the door 1: Open the door
showInfo	String (optional)	64 bytes (including terminator)	UI prompt information

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


```
{
"code": 200,
"desc": "OK",
"openDoor": 1,
"Showinfo": "XX please pass"
}
```


e. G., reply no need to open the door + UI prompt message


```
{
"code": 200,
"desc": "OK",
"openDoor": 0,
"Showinfo": "XX has no permission to pass"
}
```

3.3 setting user name and password

Set the user name and password of the all-in-one face recognition machine.

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	SetUserPwd	Set the user name and password of the face recognition all in one machine
info	json object		concrete content
User	char	User name	User name, maximum length 64 characters (including terminator)
Pwd	char	Password	Password, maximum length 64 characters (including terminator)

Operator: **SetUserPwd**

URI:**http://<server ipaddr>/action/SetUserPwd**

e.g.,

http://<server ipaddr>/action/SetUserPwd

Issue body

```
{
    "operator": "SetUserPwd",
    "info": {
        "User": "admin",
        "Pwd": "admin"
    }
}
```

3.4 network parameters

Gets or sets network parameters.In the process of setting network

parameters, the machine will restart after changing IP and other behaviors. At the same time, the setting result will not be returned at present.

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	GetNetParam or SetNetParam	GetNetParam: Get network parameters SetNetParam: Setting network parameters
info	json object		concrete content
IPAddr	char (optional)		Device IP address (up to 64 bytes)
Submask	char (optional)		Device IP subnet mask (up to 32 bytes)
Gateway	char (optional)		Device IP gateway (up to 32 bytes)
ListenPort	int (optional)		Data service port
WebPort	int (optional)		Web Service
DHCP	int (optional)	0~1	DHCP (only supported by Hisilicon) 0: not enabled (not enabled by default) 1: Enable (when enabling, it is recommended that the UI interface should not hide IP)
DefRoute	int (optional)	0~1	Default routing (WiFi / 4G version specific) 0: wired routing 1: WiFi routing 2: 4G routing

3.4.1 obtaining network parameters

Operator: **GetNetParam**

URI:**http://<server ipaddr>/action/GetNetParam**

e.g.,

http://192.168.2.10/action/GetNetParam

Reply body

```
{
    "operator": "GetNetParam",
    "info": {
        "IPAddr": "192.168.2.10",
        "Submask": "255.255.255.0",
        "Gateway": "192.168.2.1",
        "ListenPort": 5000,
        "WebPort": 80
    }
}
```

3.4.2 setting network parameters

Operator: **SetNetParam**

URI:**http://<server ipaddr>/action/SetNetParam**

e.g.,

http://192.168.2.10/action/SetNetParam

Issued body

```
{
    "operator": "SetNetParam",
    "info": {
        "IPAddr": "192.168.2.10",
        "Submask": "255.255.255.0",
        "Gateway": "192.168.2.1",
        "ListenPort": 5000,
```

```
        "WebPort": 80
    }
}
```

3.5 time parameters

Gets or sets the time parameter.

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	GetSysTime or SetSysTime	GetSysTime: Get time parameters SetSysTime: Setting time parameters
info	Json object		concrete content
Year	unsigned short (optional)	1900~	year
Month	unsigned short (optional)	1~12	month
Day	unsigned short (optional)	1~31	day
Hour	unsigned short (optional)	0~23	Hour
Minute	unsigned short (optional)	0~59	branch
Second	unsigned short (optional)	0~59	second

3.5.1 obtaining system time

Operator: **GetSysTime**

URI:**http://<server ipaddr>/action/GetSysTime**

e.g.,

http://192.168.2.10/action/GetSysTime

Reply to body

```
{
    "operator": "GetSysTime",
    "info": {
        "Year": 2018,
        "Month": 3,
        "Day": 25,
        "Hour": 20,
        "Minute": 30,
        "Second": 50
    }
}
```

3.5.2 setting system time

Operator: **SetSysTime**

URI:**http://<server ipaddr>/action/SetSysTime**

e.g.,

http://192.168.2.10/action/SetSysTime

Issue body

```
{
    "operator": "SetSysTime",
    "info": {
        "Year": 2018,
        "Month": 3,
        "Day": 25,
        "Hour": 20,
        "Minute": 30,
        "Second": 50
    }
}
```

3.6 NTP parameters

Gets or sets the NTP parameter.

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	GetSysNTP or SetSysNTP	GetSysNTP: Get NTP parameters SetSysNTP: Setting NTP parameters
info	json object		concrete content
NtpEnable	int (optional)	0~1	Whether to enable NTP timing 0: Not enabled 1: Enable
NtpUrl	char (optional)		NTP server IP address (up to 64 bytes)
NtpPort	int (optional)		NTP server port
NtpTimeZone	int (optional)	1~30	time zone 1: (gmt-12:00) west of the Japanese border 2: (gmt-11:00) midway, Samoa 3:(gmt-10:00) Hawaii 4:(gmt-09:00) Alaska 5:(gmt-08:00) Pacific time (USA and Canada) 6:(gmt-07:00) mountain time (USA and Canada) 7:(gmt-06:00) Central time (USA and Canada) 8:(gmt-05:00) Eastern time (USA and Canada) 9:(gmt-04:00) Atlantic time (Canada) 10:(gmt-03:30) Newfoundland 11:(gmt-03:00) Georgetown, Brasilia

			12:(gmt-02:00) Mid Atlantic 13:(gmt-01:00) Cape Verde, Azores 14:(GMT + 00:00) Dublin, Edinburgh, London 15:(GMT + 01:00) Amsterdam, Berlin, Rome, Paris 16:(GMT + 02:00) Athens, Jerusalem, Istanbul 17:(GMT + 03:00) Bagdad, Kuwait, Moscow 18:(GMT + 03:30) Teheran 19:(GMT + 04:00) Caucasus standard time 20:(GMT + 04:30) Kabul 21:(GMT + 05:00) Islamabad, Karachi, Tashkent 22:(GMT + 05:30) Madras, Mumbai, New Delhi 23:(GMT + 06:00) Almaty, Novosibirsk, Dhaka 24:(GMT + 07:00) Bangkok, Hanoi, Jakarta 25:(GMT + 08:00) Beijing, Urumqi, Singapore 26:(GMT + 09:00) Seoul, Tokyo, Osaka, Sapporo 27:(GMT + 09:30) Adelaide, Darwin 28:(GMT + 10:00) Melbourne, Sydney, Canberra 29:(GMT + 11:00) Magadan, Solomon Islands 30:(GMT + 12:00) Auckland, Wellington

NtpInterval	unsigned int		NTP calibration interval, unit: hour

3.5.1 obtaining NTP parameters

Operator: **GetSysNTP**

URI:**http://<server ipaddr>/action/GetSysNTP**

e.g.,

http://192.168.2.10/action/GetSysNTP

Reply to body

```
{
    "operator": "GetSysNTP",
    "info": {
        "NtpEnable": 0,
        "NtpUrl": "time.windows.com",
        "NtpPort": 123,
        "NtpTimeZone": 25,
        "NtpInterval": 1
    }
}
```

3.5.2 setting NTP parameters

Operator: **SetSysNTP**

URI:**http://<server ipaddr>/action SetSysNTP**

e.g.,

http://192.168.2.10/action/SetSysNTP

Issue body

```
{
    "operator": "SetSysNTP",
    "info": {
```

```
        "NtpEnable": 0,
        "NtpUrl": "time.windows.com",
        "NtpPort": 123,
        "NtpTimeZone": 14,
        "NtpInterval": 1
    }
}
```

3.7 central connection

Gets or sets the central connection parameters.

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	GetCenter or SetCenter	GetCenter: Get central connection parameters SetCenter: Central connection parameter setting
info	json object		concrete content
ConnectCenter	int (optional)	0~1	Enable central connection 0: Not enabled 1: Enable
CenterUrl	char (optional)		IP address of central server (maximum 64 bytes)
CenterPort	int (optional)		Central server port
CenterUser	char (optional)		User name, the maximum length is 30 characters (including the ending character)
CenterPwd	char (optional)		Password, up to 30 characters long

			(including terminator)
SendSnapImage	int (optional)	0~1	Send real time pictures 0: Do not send 1: send out
SendVerifyResult	int (optional)	0~1	Whether to send authentication results 0: Do not send 1: send out

3.5.1 obtaining central connection parameters

Operator: **GetCenter**

URI: **http://<server ipaddr>/action/GetCenter**

e.g.,

http://192.168.2.10/action/GetCenter

Reply to body

```
{
    "operator": "GetCenter",
    "info": {
        "ConnectCenter": 0,
        "CenterUrl": "192.168.2.10",
        "CenterPort": 6666,
        "CenterUser": "admin",
        "CenterPwd": "admin",
        "SendSnapImage": 1,
        "SendVerifyResult": 1
   }
}
```

3.5.2 setting central connection parameters

Operator: SetCenter

URI:**http://<server ipaddr> /action/SetCenter**

e.g.,

http://192.168.2.10 /action/SetCenter

Issue body

```
{
    "operator": "SetCenter",
    "info": {
        "ConnectCenter": 0,
        "CenterUrl": "192.168.2.10",
        "CenterPort": 6666,
        "CenterUser": "admin",
        "CenterPwd": "admin",
        "SendSnapImage": 1,
        "SendVerifyResult": 1
    }
}
```

3.8 restoration of factory

The restoration of factory interface mainly involves the setting of factory mode, list and control record, etc.It is irreversible to restore the snapshot record, personnel list database and control record. Please operate with caution.For those parts that do not need to be restored, partial recovery is supported.

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	SetFactoryDefault	Set device to factory
info	json object		concrete content
DefaltDoorSet	unsigned char (optional)	0~1	Whether the door opening conditions are restored to the factory 0: No return to factory 1: Return to factory
DefaltSoundSe	unsigned	0~1	Is the sound setting

t	char (optional)		restored to factory 0: No return to factory 1: Return to factory
DefaltNetPar	unsigned char (optional)	0~1	Are network parameters restored to factory 0: No return to factory 1: Return to factory
DefaltCenterPar	unsigned char (optional)	0~1	Whether the central connection parameters are restored to the factory 0: No return to factory 1: Return to factory
DefaltCapture	unsigned char (optional)	0~1	Is the snapshot record + control record restored to the factory 0: No return to factory 1: Return to factory
DefaltLog	unsigned char (optional)	0~1	Is the log record restored to the factory 0: No return to factory 1: Return to factory
DefaltPerson	unsigned char (optional)	0~1	Whether the personnel list database + control records are restored to the factory 0: No return to factory 1: Return to factory
DefaltRecord	unsigned char (optional)	0~1	Whether the control records are restored to the factory 0: No return to factory 1: Return to factory
DefaltMaintainTime	unsigned char	0~1	Is the factory maintenance time of the

	(optional)		system restored 0: No return to factory 1: Return to factory
DefaltSystemSettings	unsigned char (optional)	0~1	System parameters:The type of ID card reader; whether to record snapshot, ID card, authentication record and other parameters are restored to factory 0: No return to factory 1: Return to factory
DefaltEnterIPC	unsigned char (optional)	0~1	(used by the face analysis server), whether the parameters of the access camera are restored to the factory 0: No return to factory 1: Return to factory
DefaltServerBasicPara	unsigned char (optional)	0~1	Basic parameter configuration: information release; channel selection; clear interface capture and comparison information Whether to restore the factory 0: No return to factory 1: Return to factory
DefaltWorktype	unsigned char (optional)	0~1	(used by the face analysis server), whether the personnel type parameters are restored to the factory

			0: No return to factory 1: Return to factory

Operator: **SetFactoryDefault**

URI: **http://<server ipaddr>/action/SetFactoryDefault**

e.g.,

http://192.168.2.10/action/SetFactoryDefault

Issue body

```
{
    "operator": "SetFactoryDefault",
    "info": {
        "DefaltDoorSet": 0,
        "DefaltSoundSet": 0,
        "DefaltNetPar": 0,
        "DefaltCenterPar": 0,
        "DefaltCapture": 0,
        "DefaltLog": 0,
        "DefaltPerson": 0,
        "DefaltRecord": 0,
        "DefaltMaintainTime": 0,
        "DefaltSystemSettings": 0,
        "DefaltEnterIPC": 0,
        "DefaltServerBasicPara": 0,
        "DefaltWorktype": 0

    }
}
```

3.9 equipment information

Gets or sets device information.

Parameter information (Note: optional is optional)

Key	Type	Values	Description

operator	char	GetSysParam or SetSysParam	Gets or sets system device information
info	json object		concrete content
Name	char (optional)		Device name, up to 64 characters in length (including terminator)
DeviceID	int (optional)		Device ID (not settable)
Version	char (optional)		System version (not settable)

3.9.1 obtaining equipment information

Operator: **GetSysParam**

URI:**http://<server ipaddr>/action/GetSysParam**

e.g.,

http://192.168.2.10/action/GetSysParam

Reply to body

```
{
    "operator": "GetSysParam",
    "info": {
        "Name": "facegate1",
        "DeviceID": 1300001,
        "Version": "v4.0.5-0.0.6.0"
    }
}
```

3.9.2 setting device information

Allows you to set the name of the device.

Operator: **SetSysParam**

URI:**http://<server ipaddr>/action/SetSysParam**

e.g.,

http://192.168.2.10/action/SetSysParam

Reply to body

```
{
    "operator": "SetSysParam",
    "info": {
        "Name": "facegate_test"
    }
}
```

3.10 addition, editing and modification of the list

Addition and modification of the list.Corresponding to the distributed personnel list images, the picture data can be filled in Base64 with the key value of picinfo, or the URI address of the picture can be filled in by the key value of picuri, and the corresponding image data can be obtained by the face recognition all-in-one machine.Choose one of these two methods. When picinfo and picuri pass in data at the same time, the data corresponding to picinfo is obtained by default.

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	AddPerson or EditPerson	AddPerson: Add list to list Library EditPerson: Modify the personnel information in the list library
info	json object		concrete content
DeviceID	int		The device ID number of the equipment to be operated can be accessed through3.9 equipment information acquisition Get.

IdType	int	0~2	The type of ID that needs to be operated on, 0:CustomizeID, 1:Libid, (modified) 2:PersonUUID
CustomizeID	unsigned int (optional)		User defined ID Required when idtype = 0
LibID	int (optional)		Database ID (for modification) Required when idtype = 1
PersonUUID	char (optional)		User defined UUID Required when idtype = 2
PersonType	int (optional)	0 ~ 1 (all in one machine) 0 ~ 11 (analysis server)	List type 0: White list 1: blacklist 2-11: personnel type (used by analysis server)
Name	char (optional)		Name, maximum length 32 characters (including ending)
Gender	int (optional)	0~1	Gender 0: male 1: female
Nation	int (optional)	1~57	nation 1: "Han" SeeAppendix D.1 Nationalities
CardType	int (optional)		Document type 0:ID
IdCard	char (optional)		ID number, the maximum length is 32 characters (including ending character)
Birthday	char	YYYY-MM-DD	Birthday, e.g., January

	(optional)		1, 2018
Telnum	char (optional)		Phone number, up to 32 characters long (including terminator)
Native	char (optional)		Native place, the maximum length is 32 characters (including ending character)
Address	char (optional)		Address, with a maximum length of 72 characters (including terminator)
Notes	char (optional)		Note, the maximum length is 64 characters (including terminator)
MjCardFrom	int (optional)	0~3	The generating mode of wiegenka number 0: Public card number 1: Automatic generation 2: Manual input 3: Do not use access card number
WiegandType	int (optional)	0~1 or 6~7	The Wiegand agreement according to which the wagenka number is composed; when mjcardfrom = 2 is required; 0: 26 1: 34 6:26 digits (8 + 16 facility code + userid (equipment code + card number) should be filled in separately); 7:34 digits (8 + 24 facility code + userid) Default:1 (34 bits)
WGFacilityCode	int (optional)		Facility code; required when wiegandtype = 6 or 7; used with mjcardno. When

			wiegandtype = 0 or 1, it is not necessary to fill in. See3.10.5 Wigan access card number and built-in swipe ID card number
MjCardNo	unsigned int (optional)		User ID; required when Wiegand type = 6 or 7, used together with wgfacility code. When Wiegand type = 0 or 1, it forms the wiegenka number alone. See3.10.5 Wigan access card number and built-in swipe ID card number
CardMode	unsigned int (optional)	0~1	The access control card number adopts the mode 0: Decimal card number 1: Hexadecimal composition card number Default 0: For the card number of decimal system, please refer to3.10.5 Wigan access card number and built-in swipe ID card number
RFCardMode	unsigned int (optional)	0~1	The RF (ID) card number adopts the mode, aiming at the built-in card reader 0: Decimal card number 1: Hexadecimal composition card number Default 1: Hexadecimal composition card number

RFIDCard	Char (optional)	If rfcardmode = 0, fill in the decimal string ("1369406761"); if rfcardmode = 1, fill in the hexadecimal string ("519f7d29")	ID card number, the maximum length is 18 characters, for the built-in card reader (including the end character). See3.10.5 Wigan access card number and built-in swipe ID card number
Tempvalid	int (optional)	0~3	Is it a temporary list 0: Permanent effective list 1: Provisional list 1 (start and end period) 2: Temporary list 2 (daily time period, new database version support) 3: Temporary list 3 (valid times, supported by new database version)
CustomizeID	unsigned int (optional)		The ID number of the user can be modified by the user ID number.Note: you can't use the same ID to add personnel repeatedly, otherwise it will cause errors in modification, deletion and other operations.
PersonUUID	char (optional)		The user-defined personnel UUID number can be modified or

			deleted to manage the corresponding personnel information.Note: it is not allowed to add personnel with the same ID repeatedly, otherwise it will cause errors in modification, deletion and other operations (no more than 48 bytes)
ValidBegin	char (optional)	YYYY-MM-DDThh:mm:ss	If it is temporary list 1, the start time of the temporary list taking effect, e.g., 2018-03-12t09:09:20 If it is a temporary list, 2: e.g., 2018-03-12t09:09:20 March 12, 2018 is the starting time for the provisional list to take effect; 09:09:20 is the start time of the temporary list taking effect, minutes and seconds;
ValidEnd	char (optional)	YYYY-MM-DDThh:mm:ss	If it is temporary list 1, the end time of temporary list 1 effective, e.g., 2018-03-12t09:10:00 If it is a temporary list, 2: e.g.,

			2018-03-12t09:09:20 March 12, 2018 is the end time of the provisional list taking effect; 09:09:20 is the end time when the temporary list takes effect;
ChannelAuthorityX	int (optional)	0~1	Channel x permission:0:No channel permission 1:Have channel permission (for face multi-channel server)
EffectNumber	unsigned int (optional)	0 <EffectNumber< 2^32	Number of valid passes for provisional list 3, 1 ~ 4294967295
isCheckSimilarity	int (optional)	0~1	Whether to check the image (if the similarity of the added image is greater than the threshold value of the black and white list, the list already exists). The default value is 0: no check, 1: check
IdCardId	char (optional)		ID card ID, the maximum length is 32 characters (including terminator).(only for access control, other models are invalid)
AccessId	char (optional)		The maximum length of the access card number

			is 24 characters (including the ending character). (only for 12 inch access control machine, other models are invalid)
WardenId	char (optional)		Administrator authorization card, the maximum length is 32 characters (including the ending character). (only for access control, other models are invalid)
RoomNum	char (optional)		Room number, the maximum length is 24 characters (including the ending character). (only for access control, other models are invalid)
picinfo	char And picuri		Base64 encoded data of face image (no more than 1m)
picURI	char And picinfo	https://btngps.oss-cn-beijing.aliyuncs.com/image/xxx.jpg	Cloud URI address of face image data

3.10.1 single list addition

The error codes added to a single list are returned in the appendixC. 10.1.1 add error code to single list。

Operator: AddPerson

URI:http://<server ipaddr>/action/AddPerson

e.g.,
http://192.168.2.10/action/AddPerson

e. G.1, add permanent list + Wigan access control card number 1046239 (decimal card number, Wigan 34 digits) + picture data is encoded by Base64


```
{
"operator": "AddPerson",
"info": {
    "DeviceID":1300001,
    "PersonType": 0,
    "Name": Zhang San,
    "Gender":0,
    "Nation":1,
    "CardType":0,
    "IdCard":"430923199011044411",
    "Birthday":"1990-11-04",
    "Telnum":"18888888888",
    "Native": Guangdong,
    "Address": Shenzhen Bao'an,
    "Notes":,
    "MjCardFrom": 2,
    "WiegandType":1,
    "CardMode":0,
    "MjCardNo": 1046239,
    "Tempvalid": 0,
    "CustomizeID": 123456,
    "PersonUUID": "4476c20c-23ce-4178-8672-b292d33a3cd8",
    "isCheckSimilarity": 0
  },
   "picinfo":"......"
}
```


Or

e. G.2, add temporary list 1 + Wigan access control card No. 9a018b2d (hexadecimal card number, Wigan 8 + 24) + image data adopts URI


```
{
"operator": "AddPerson",
"info": {
    "DeviceID":1300001,
    "PersonType": 0,
    "Name":"test",
    "Gender":0,
    "Nation":1,
    "CardType":0,
    "IdCard":"430923199011044411",
    "Birthday":"1990-11-04",
    "Telnum":"18888888888",
    "Native": Guangdong,
    "Address": Shenzhen Bao'an,
    "Notes":,
    "MjCardFrom": 2,
    "WiegandType":7,
    "CardMode":1,
    "WGFacilityCode":9A,
    "MjCardNo": 018B2D,
    "Tempvalid": 1,
    "CustomizeID": 123456,
    "PersonUUID": "4476c20c-23ce-4178-8672-b292d33a3cd8",
    "isCheckSimilarity": 0,
    "ValidBegin":"2018-03-12T09:09:20",
    "ValidEnd":"2020-12-14T23:59:59",
  },
    "picURI":"https://btngps.oss-cn-beijing.aliyuncs.com/image/xxx.jpg"
}
```


e. G.3, add temporary list 3 + Wigan access control card No. 9a0192b3 (hexadecimal card number, Wigan 8 + 24, Wigan output use) + ID card No.

9a0192b3 (built-in swipe card model, swipe card compared with common use)
+ image data adopts URI

```
{
"operator": "AddPerson",
"info": {
    "DeviceID":1300001,
    "PersonType": 0,
    "Name":"test",
    "Gender":0,
    "Nation":1,
    "CardType":0,
    "IdCard":"430923199011044411",
    "Birthday":"1990-11-04",
    "Telnum":"18888888888",
    "Native": Guangdong,
    "Address": Shenzhen Bao'an,
    "Notes":,
    "MjCardFrom": 2,
    "WiegandType":7,
    "CardMode":1,
    "WGFacilityCode":9A,
    "MjCardNo": 0192B3,
    "RFIDCard": "9A0192B3",
    "Tempvalid": 3,
    "CustomizeID": 123456,
    "PersonUUID": "4476c20c-23ce-4178-8672-b292d33a3cd8",
    "isCheckSimilarity": 0,
    "EffectNumber": 5,
  },
   "picURI":"https://btngps.oss-cn-beijing.aliyuncs.com/image/xxx.jpg"
}
```

Issue body

3.2 add more than 10 lists

Operator: **AddPersons**

URI:**http://<server ipaddr>/action/AddPersons**

e.g.

http://192.168.2.10/action/AddPersons

Issue body


```
{
    "operator":"AddPersons",
   "DeviceID":1310023,
   "Total":3,
    "Personinfo_0":{
       "PersonType":0,
       "Name":"test",
       "Gender":0,
       "Nation":1,
       "CardType":0,
       "IdCard":"430923199011044411",
       "Birthday":"1990-11-04",
       "Telnum":"18888888888",
       "Native": Guangdong,
       "Address": Shenzhen Bao'an,
       "Notes":,
       "MjCardFrom": 2,
        "WiegandType":1,
       "CardMode":0,
        "MjCardNo": 1046240,
       "Tempvalid": 0,
       "CustomizeID": 120,
       "PersonUUID": "4476c20c-23ce-4178-8672-b292d33a3cd6",
        "isCheckSimilarity": 0,
       "ValidBegin":"2019-02-12T09:09:20",
       "ValidEnd":"2019-03-12T09:09:20",
      "picinfo":"......"
```

```
    },
    "Personinfo_1":{
        ......
    }
    ......
}

Or

{
    "operator":"AddPersons",
    "DeviceID":1310023,
    "Total":3,
    "Personinfo_0":{
        "PersonType":0,
        "Name":"test",
        "Gender":0,
        "Nation":1,
        "CardType":0,
        "IdCard":"430923199011044411",
        "Birthday":"1990-11-04",
        "Telnum":"18888888888",
        "Native": Guangdong,
        "Address": Shenzhen Bao'an,
        "Notes":,
        "MjCardFrom": 2,
      "WiegandType":7,
      "CardMode":1,
      "WGFacilityCode":9A,
      "MjCardNo": 0192B3,
      "RFIDCard": "9A0192B3",
        "Tempvalid": 0,
        "CustomizeID": 120,
        "PersonUUID": "4476c20c-23ce-4178-8672-b292d33a3cd6",
         "isCheckSimilarity": 0,
```

```
        "ValidBegin":"2019-02-12T09:09:20",
         "ValidEnd":"2019-03-12T09:09:20",
         "picURI":"https://btngps.oss-cn-beijing.aliyuncs.com/image/xx
         x.jpg"
    },
    "Personinfo_1":{
        ......
    }
    ......
}
```

3.10.3 list editing and modification

Edit and modify the list according to libid (database ID) or customizeid or UUID. The parameters to be modified are optional. If no modification is needed, the corresponding key should not appear in the distributed data.

Operator: **EditPerson**
URI:**http://<server ipaddr>/action/EditPerson**

e.g.,
http://192.168.2.10/action/EditPerson
Issue body

```
{
"operator": "EditPerson",
"info": {
    "DeviceID":1300001,
    "IdType":0,
    "CustomizeID":123,
    "PersonType": 0,
    "Name":"hahaha",
```

```
    "Gender":0,
    "Nation":1,
    "CardType":0,
    "IdCard":"430923199011044411",
    "Birthday":"1999-11-04",
    "Telnum":"19999999999",
    "Native": Mars,
    "Address": Shenzhen Bao'an,
    "Notes":,
    "MjCardFrom": 2,
    "WiegandType":1,
    "CardMode":0,
    "MjCardNo": 1046239,
    "Tempvalid": 0,
    "IdType": 0,
    "ValidBegin":"2018-03-12T09:09:20",
    "ValidEnd":"2018-03-12T09:09:20",
  },
"picinfo": "……"
}
Or
{
"operator": "EditPerson",
"info": {
    "DeviceID":1300001,
    "IdType":1,
    "LibID":123,
    "PersonType": 0,
    "Name":"hahaha",
    "Gender":0,
    "Nation":1,
    "CardType":0,
    "IdCard":"430923199011044411",
    "Birthday":"1999-11-04",
    "Telnum":"19999999999",
```

```
    "Native": Mars,
    "Address": Shenzhen Bao'an,
    "Notes":,
    "MjCardFrom": 2,
    "WiegandType":7,
    "CardMode":1,
    "WGFacilityCode":9A,
    "MjCardNo": 018B91,
    "Tempvalid": 1,
    "ValidBegin":"2018-03-12T09:09:20",
    "ValidEnd":"2018-03-12T09:09:20",
    " ChannelAuthority0":"1",
    " ChannelAuthority1":"1",
    " ChannelAuthority2":"1",
    " ChannelAuthority3":"1"
  },
  "picURI":"https://btngps.oss-cn-beijing.aliyuncs.com/image/xxx.jpg"
}
Or
{
"operator": "EditPerson",
"info": {
    "DeviceID":1300001,
    "IdType":2,
    "PersonUUID":"5763a498-2fce-4d25-aa00-45b8278d9788",
    "PersonType": 0,
    "Name":"hahaha",
    "Gender":0,
    "Nation":1,
    "CardType":0,
    "IdCard":"430923199011044411",
    "Birthday":"1999-11-04",
    "Telnum":"19999999999",
    "Native": Mars,
    "Address": Shenzhen Bao'an,
```

```
    "Notes":,
    "MjCardFrom": 2,
    "WiegandType":7,
    "CardMode":1,
    "WGFacilityCode":9A,
    "MjCardNo": 123CB3,
    "RFIDCard": "9A123CB3",
    "Tempvalid": 3,
    "EffectNumber": 10
  },
"picinfo": "……"
}
```

3.10.4 getting the old and new database versions

The new database supports temporary list 2 and temporary list 3.The old database is restored to the factory in the latest version, and the device is restarted. After the device is started, it is the latest database.

Parameter information:

Key	Type	Values	Description
operator	char	GetDatabaseVer	Gets the database version of the device
info	json object		concrete content
DatabaseVersion	int	0~1	Database version 0: old database 1: New database

Operator: GetDatabaseVer

URI:**http://<server ipaddr>/action/**GetDatabaseVer

e.g.,

http://192.168.2.10/action/GetDatabaseVer

Reply to body

```
{
    "operator": "GetDatabaseVer",
```

```
    "info": {
        " DatabaseVersion ": 1
    }
}
```

3.10.5 Wigan access card number and built-in swipe ID card number

The Weigan access control card number is mainly for the type of external card reader, which needs to be filled in for the comparison and passage under the card swiping mode; the Weigan output of the external card reader uses this Weigan access card number. In the mode of 8 + 16 or 8 + 24, wgfacility code and mjcardno field together constitute the Weigan access card number; in the mode of 26 bit or 34 bit Wigan protocol, the mjcardno field alone constitutes the Weigan access card number.

The RFID card (ID card number) field is commonly used in the face recognition all-in-one machine with built-in card reader. If the built-in card reader wants to output the weigencard number, it also needs to follow the3.10 addition, editing and modification of the listFill in the corresponding Wigan access control card number according to the rules; that is, the rfidcard field is used for comparison and Wigan output in the card swiping mode, while the built-in swiping card model outputs the Weigan access card number when the face swiping mode is used. For the built-in swiping card model, in order to output the same number in the face brushing and card swiping modes, the same field needs to be filled in according to the corresponding rules.

about3.12.4 reporting of certification resultsand3.19 list search queryand3.22 control record query All the fields of weigen access card number returned in are based on3.2 setting of door opening conditionsThe Wiegand and cardmode parameters of the. If the system parameter Wiegand is 4 or 5 or 6 or 7, the returned wgfacility code and mjcardno field together constitute the Weigan access card number; when the Wiegand is 0 or 1, the mjcardno field separately constitutes the Weigan access card number; when the cardmode card number mode is 0 (decimal), the returned

Wigan access card number is decimal, and the cardmode card number mode is 1 (hexadecimal) mode,Return to Wigan. The access card number is hexadecimal.The return of rfidcard field is a string. When adding / modifying the list, the corresponding decimal / hexadecimal value will be saved according to the value of rfcardmode.

3.11 deletion of the list

The delete personnel list interface will delete the control record (authentication record) of the corresponding personnel list at the same time, and cannot be recovered. Therefore, it should be operated with caution; if the deletion of all personnel lists is successful, the face recognition integration opportunity will restart automatically.

3.11.1 deletion of single or multiple lists

The list can be deleted by libid or customid. Libid or customid cannot be 0

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	DeletePerson or DeleteAllPerson	DeletePerson:Delete the personnel information in the list library DeleteAllPerson:Delete all personnel list information
info	json object		concrete content
DeviceID	int		The device ID number of the equipment to be operated can be accessed through3.9 equipment information acquisition Get.

TotalNum	int	1~256	How many personnel information need to be deleted in this operation
IdType	int	0~2	0:User defined customization ID, 1: device database libid, 2: personuuid
LibID	json array (optional)		A collection of single or multiple libids of type unsigned int in the format of JSON array of libids Required when idtype = 1
CustomizeID	json array (optional)		A collection of single or multiple customizeids of type int in the form of a JSON array of customizeids Required when idtype = 0
PersonUUID	json array (optional)		A collection of single or multiple UUIDs. UUID is a char type string of no more than 48 bytes in the format of JSON array of UUIDs Required when idtype = 2
DeleteAllPersonCheck	json array	1	Required when operator is deleteallperson

Operator: **DeletePerson**

URI:**http://<server ipaddr>/action/DeletePerson**

e.g.,

http://192.168.2.10/action/DeletePerson

Issue body

```
{
    "operator": "DeletePerson",
    "info": {
        "DeviceID": 1300001,
        "TotalNum": N,
        "IdType": 0,
        "CustomizeID":[1, 2, 3, .....]
    }
}
Or
{
    "operator": "DeletePerson",
    "info": {
        "DeviceID": 1300001,
        "TotalNum": N,
        "IdType": 1,
        "LibID": [1, 2, 3, .....]
    }
}
Or
{
    "operator": "DeletePerson",
    "info": {
        "DeviceID": 1300001,
        "TotalNum": N,
        "IdType": 2,
        "PersonUUID": ["4476c20c-23ce-4178-8672-b292d33a3cd8",....]
    }
}
```

3.11.2 deletion of all personnel list

All personnel list deletion interface will delete the control records (authentication records) of all personnel lists at the same time and cannot be restored. Therefore, it is necessary to operate cautiously. If the deletion of all personnel lists is successful, the face recognition integration opportunity will restart automatically.

Operator: **DeleteAllPerson**
URI: **http://<server ipaddr>/action/DeleteAllPerson**

e.g.,
http://192.168.2.10/action/DeleteAllPerson
Issue body

```
{
    "operator": "DeleteAllPerson",
    "info":
  {
        "DeleteAllPersonCheck": 1
   }
}
```

3.12 data subscription

The types of data subscription include: authentication result information subscription, stranger snapshot subscription and so on.If the breakpoint continuous transmission function is enabled, the server needs to return the pushed stranger snapshot information and authentication information. SeeC. 12.4.1 reply the data packet with the server of network interruption and continuous transmission。

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	Subscribe	Message subscription
info	json object		concrete content

DeviceID	int		The device ID number of the equipment to be operated can be accessed through3.9 equipment information acquisition Get.
Num	int	1~4	How many types of information to subscribe to
Topics	json array	"Snap", "Verify", "VerifyWithSnap", "VerifyWithReg", "VerifyNoPic", "QRCode", "Card", "PassWord", "IDCard"	A collection of single or multiple subscription message types (up to 128 bytes), such as: ["snap": subscribe to real-time snapshot reporting or ["verify": subscribe to the report of authentication results (with snapshot + registration image) or ["verifywithsnap"]: subscribe to the report of authentication results (only with captured pictures) or ["verifywithreg": subscribe to the report of authentication results (only with registration images) or ["verifynopic"): subscribe to the report of authentication results (without pictures) or ["QRcode": subscribe to QR code report or ["snap", "verify"] subscription snapshot and authentication result reporting or ["card"] subscription access control IC card certification results report (12 inch access control model is valid)

			or ["password"] subscription access control password authentication results report (12 inch access control model is valid) ["IDcard"] subscription ID card information reporting
SubscribeAddr	char	http://<Subscribe server ip>:port	Subscription address, including IP and port, e.g., http: / / 192.168.2.11:8080
SubscribeUrl	json object		A collection of single or multiple reported URLs, including snapshot, authentication result, heartbeat, QR code, IC card number authentication result (access control), password authentication result (access control), and ID card information. e.g., {"Snap":"/Subscribe/Snap", "Verify":"/Subscribe/Verify", "HeartBeat":"/Subscribe/heartbeat", "Card":"/Subscribe/Card", "QRCode":"/Subscribe/QRCode ", "PassWord":"/Subscribe/ PassWord ", "IDCard":"/Subscribe/IDCard"}
BeatInterval	int(optional)		Heartbeat interval, unit second, if not set, the default is 30 seconds
bTimedPush	int(optional)	0~1	Snapshot, authentication, QR code, etc. are pushed to the

			server regularly, and are not opened by default. 0:Do not turn on timed push 1:Turn on timed push
PushInterval	int(optional)		When btimedpush = 1, it is required to set the push interval
Auth	char (optional)	“none” or “Basic”	Do post submit the submitted information for authentication None : No authentication processing is required Basic : Post basic authentication
User	char (optional)		User name, maximum length 64 characters (including terminator) Auth = basic is required
Pwd	char (optional)		Password, maximum length 64 characters (including terminator) Auth = basic is required
Resumefrom Breakpoint	int	0~1	Whether to enable breakpoint continuation (in the mode of stranger snapshot subscription or authentication subscription), 0: not enabled, 1: enabled.Do not open the breakpoint resume function, only ensure the push data, do not need the server to return.If the function is enabled, the server needs to return the following JSON packets for the pushed stranger snapshot information and authentication information: {

			"code": 200, "desc": "OK", } 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.
BeginTime	char (optional)	YYYY-MM-DDTh h:mm:ss	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 snapshot information push before the breakpoint is completed, this time will become the time to complete the breakpoint continuous transmission and push. e.g., 2018-03-12T09:10:00

3.12.1 push information does not require authentication

Operator: **Subscribe**

URI:**http://<server ipaddr>/action/Subscribe**

e.g.,

http://192.168.2.10/action/Subscribe

Issue body

```
{
```

```
    "operator": "Subscribe",
    "info": {
        "DeviceID": 1300001,
        "Num": 2,
        "Topics":["Snap", "Verify"],
        "SubscribeAddr":"http://192.168.2.11:8080",
        "SubscribeUrl":{"Snap":"/Subscribe/Snap",
"Verify":"/Subscribe/Verify", "HeartBeat":"/Subscribe/heartbeat"},
        "BeatInterval":30,
        "ResumefromBreakpoint":0,
        "Auth":"none"
    }
}
Or
{
    "operator": "Subscribe",
    "info": {
        "DeviceID": 1300001,
        "Num": 2,
        "Topics":["Snap", "VerifyWithReg"],
        "SubscribeAddr":"http://192.168.2.11:8080",
        "SubscribeUrl":{"Snap":"/Subscribe/Snap",
"Verify":"/Subscribe/Verify", "HeartBeat":"/Subscribe/heartbeat"},
        "ResumefromBreakpoint":1,
        "Auth":"none"
    }
}
Or
{
    "operator": "Subscribe",
    "info": {
        "DeviceID": 1300001,
        "Num": 1,
        "Topics":["QRCode"],
        "SubscribeAddr":"http://192.168.2.11:8080",
```

```
        "SubscribeUrl":{"QRCode":"/Subscribe/QRCode",
"HeartBeat":"/Subscribe/heartbeat"},
        "ResumefromBreakpoint":0,
        "Auth":"none"
    }
}
Or
{
    "operator": "Subscribe",
    "info": {
        "DeviceID": 1300001,
        "Num": 1,
        "Topics":["PassWord"],
        "SubscribeAddr":"http://192.168.2.11:8080",
        "SubscribeUrl":{"PassWord":"/Subscribe/PassWord",
"HeartBeat":"/Subscribe/heartbeat"},
        "ResumefromBreakpoint":0,
        "Auth":"none"
    }
}
Or
{
    "operator": "Subscribe",
    "info": {
        "DeviceID": 1300001,
        "Num": 1,
        "Topics":[" Card"],
        "SubscribeAddr":"http://192.168.2.11:8080",
        "SubscribeUrl":{"Card":"/Subscribe/Card",
"HeartBeat":"/Subscribe/heartbeat"},
        "ResumefromBreakpoint":0,
        "Auth":"none"
    }
}
```

```
...
```

3.12.2 user name and password shall be provided during subscription, and authentication is required for submission

Operator: **Subscribe**

URI:**http://<server ipaddr>/action/Subscribe**

e.g.,

http://192.168.2.10/action/Subscribe

Issue body

```
{
    "operator": "Subscribe",
    "info": {
        "DeviceID": 1300001,
        "Num": 2,
        "Topics":["Snap", "Verify"],
        "SubscribeAddr":"http://192.168.2.11:8080",
        "SubscribeUrl":{"Snap":"/Subscribe/Snap",
"Verify":"/Subscribe/Verify", "HeartBeat":"/Subscribe/heartbeat"},
        "ResumefromBreakpoint":1,
        "Auth":"Basic",
        "User": "admin",
        "Pwd": "amdin"
    }
}
Or
{
    "operator": "Subscribe",
```

```
    "info": {
        "DeviceID": 1300001,
        "Num": 2,
        "Topics":["Snap", "VerifyWithReg"],
        "SubscribeAddr":"http://192.168.2.11:8080",
        "SubscribeUrl":{"Snap":"/Subscribe/Snap",
"Verify":"/Subscribe/Verify", "HeartBeat":"/Subscribe/heartbeat"},
        "ResumefromBreakpoint":1,
        "Auth":"Basic",
        "User": "admin",
        "Pwd": "amdin"
    }
}
Or
{
    "operator": "Subscribe",
    "info": {
        "DeviceID": 1300001,
        "Num": 1,
        "Topics":["QRCode"],
        "SubscribeAddr":"http://192.168.2.11:8080",
        "SubscribeUrl":{"QRCode":"/Subscribe/QRCode",
"HeartBeat":"/Subscribe/heartbeat"},
        "ResumefromBreakpoint":0,
        "Auth":"Basic",
        "User": "admin",
        "Pwd": "amdin"
    }
}
Or
{
    "operator": "Subscribe",
    "info": {
        "DeviceID": 1300001,
        "Num": 1,
```

```
        "Topics":["PassWord"],
        "SubscribeAddr":"http://192.168.2.11:8080",
        "SubscribeUrl":{"PassWord":"/Subscribe/PassWord",
"HeartBeat":"/Subscribe/heartbeat"},
        "ResumefromBreakpoint":0,
        "Auth":"Basic",
        "User": "admin",
        "Pwd": "amdin"
    }
}
Or
{
    "operator": "Subscribe",
    "info": {
        "DeviceID": 1300001,
        "Num": 1,
        "Topics":["Card"],
        "SubscribeAddr":"http://192.168.2.11:8080",
        "SubscribeUrl":{"Card":"/Subscribe/Card",
"HeartBeat":"/Subscribe/heartbeat"},
        "ResumefromBreakpoint":0,
        "Auth":"Basic",
        "User": "admin",
        "Pwd": "amdin"
    }
}

...
```

3.12.3 strangers snapshot Report

Parameter information:

Key	Type	Values	Description
operator	char	SnapPush	Snapshot and push of strangers

info	json object		concrete content
DeviceID	int		Device ID number of the device
CreateTime	char	YYYY-MM-DD Thh:mm:ss	Strangers capture the time.e.g., 2018-03-25T21:50:05
PictureType	unsigned int	0~4	Types of captured face pictures 0: Comparison failed 1: Blacklist of successful comparison 2: White list of successful comparison 3: ID card + face comparison failed 4: ID card + face match successful
Temperature	double	37.20	Real time detection of face temperature. When the door opening mode is equipped with temperature detection mode, the detection temperature is returned (temperature detection machine version support)
Temperature Alarm	int	0~1	Real time detection of whether the face temperature exceeds the threshold, 0: not exceeded; 1: over (temperature detection machine version support)
SnapChannel	int	0 ~ maximum channel number	Channel number of personnel capture (used by face multi-channel server)
Sendintime	int	0~1	Whether to push information in time, 0: not in time (push time is 10 seconds longer than capture time) 1: timely push

Direction	int (optional)	0~2	Entrance and exit direction 0: one way 1: Entrance 2: Export
SanpPic	char		Base64 encoded data of face images captured by strangers

e.g.,Raw:

```
-- HEADERS  --
POST /Subscribe/Snap HTTP/1.1
Accept: application/json
Content-Type: application/json; charset=UTF-8
Content-Length: 77181
Accept-Encoding: gzip, deflate
User-Agent: FaceGate-HttpClient/0.0.1
Host:192.168.2.10
Connection: Keep-Alive

--   BODY   --
{
"operator": "SnapPush",
"info": {
    "DeviceID":1300001,
    "CreateTime":"2018-03-12T09:09:20",
    "PictureType":0,
    "Sendintime":1
  },
"SanpPic": "……"
}
```

3.12.4 reporting of certification results

Parameter information:

Key	Type	Values	Description
operator	char	VerifyPush	Authentication result push
info	json object		concrete content

DeviceID	int		Device ID number of the device
PersonID	int		The personnel ID number stored in the device can be modified through this ID when the customeid and personuuid are invalid
CreateTime	char	YYYY-MM-DDThh:mm:ss	Control the recording time. e.g., 2018-03-25T21:50:05
Similarity 1	float	0.0~100.0	Similarity of black and white list comparison
Similarity 2	float	0.0~100.0	Identity card comparison similarity
VerifyStatus	int	0 ~ 3 or 22, 24	Certification results 0: nothing 1: allow 2: refuse 3: Not yet registered 22:To be verified (control record of door opening mode is 3: face verification + remote door opening mode) 24:No permission (special version of control record of non passage time)
VerfyType	int	1: Or 22 ~ 27 ~ 27 ~ 3 or 22 ~ 3; 2: Special machines: Support mask detection or (|) operation, and 0x100 indicates passing with mask detection; It supports	Validation type. 1: Whitelist verification 2: ID card verification 3: White list + ID card verification 21:RF card verification (built-in swipe card model) 22:RF card verification + whitelist verification (built-in swipe card model) 24:Wegenka verification 25:Wegenka + whitelist verification

		temperature detection or (|) operation, and 0x200 indicates that it has temperature detection; Support mask + body temperature detection or (|) operation. 0x300 indicates that the mask + body temperature detection is available; For example: Mask access (0x100) Mask + whitelist verification (0x101) Temperature pass (0x200) Body temperature + whitelist verification (0x201) Mask + body temperature (0x300) Mask + body temperature + Wigan swipe card + white list verification (0x319)	27:HTTP remote door opening
PersonType	int	0~1	List type 0: White list 1: blacklist

Name	char		Name (maximum length 32 bytes)
Gender	int	0~2	Gender 0: male 1: female 2: other
Nation	int	1~57	nation 1: "Han" SeeAppendix D.1 Nationalities
CardType	int		Document type 0:ID
IdCard	char		ID number, the maximum length is 32 characters (including ending character)
Birthday	char	YYYY-MM-DD	Birthday, e.g., January 1, 2018
Telnum	char		Phone number, up to 32 characters long (including terminator)
Native	char		Native place, the maximum length is 32 characters (including ending character)
Address	char		Address, with a maximum length of 72 characters (including terminator)
Notes	char		Note, the maximum length is 64 characters (including terminator)
MjCardFrom	int	0~3	The generating mode of wiegenka number 0: Public card number 1: Automatic generation

			2: Manual input 3: Do not use access card number
WGFacility Code	int (optional)		Facility code; when3.2 door opening conditions When Wiegand = 4 or 5 or 6 or 7 in, together with the mjcardno field, the Wiegand number is formed; when Wiegand = 0 or 1, this parameter has no practical significance.See3.10.5 Wigan access card number and built-in swipe ID card number
MjCardNo	unsigned int		Weigan access card number (userid).When3.2 door opening conditions When Wiegand = 4 or 5 or 6 or 7 in, it is combined with wgfacility code field to form the weigenka number; when Wiegand = 0 or 1, it forms the weigenka number alone.See3.10.5 Wigan access card number and built-in swipe ID card number
RFIDCard	Char (optional)		ID card number, the maximum length is 18 characters. For the built-in card reader (including the end character), please refer to3.10.5 Wigan access card number and built-in swipe ID card number
Tempvalid	int	0~1	Is it a temporary list 0: Permanent effective list

			1: Provisional list 2: Provisional list 2 3: Provisional list 3
CustomizeID	unsigned int		The ID number of the user can be modified by the user ID number.Note: you can't use the same ID to add personnel repeatedly, otherwise it will cause errors in modification, deletion and other operations
PersonUUID	char		The user-defined personnel UUID number (no more than 48 bytes) can be modified and deleted through this ID number to manage the corresponding personnel information.Note: you can't use the same UUID repeatedly to add personnel, otherwise it will cause errors in modification, deletion and other operations
ValidBegin	char	YYYY-MM-DDThh:mm:ss	If it is a provisional list, the start time of the provisional list's entry into force, e.g., 2018-03-12t09:09:20
ValidEnd	char	YYYY-MM-DDThh:mm:ss	If it is a temporary list, the end time of the temporary list taking effect, e.g., 2018-03-12t09:10:00
AccessChannel	int	0 ~ maximum channel number	Channel number of personnel access (used by face multi-channel server)

Temperature	double	37.20	Real time detection of face temperature, when the door open mode with the temperature detection mode, the detection temperature is returned (temperature detection machine version support)
TemperatureAlarm	int	0~1	Real time detection of whether the face temperature exceeds the threshold, 0: not exceeded; 1: over (temperature detection machine version support)
Sendintime	int	0~1	Whether to push information in time, 0: not in time (push time is 10 seconds longer than authentication time) 1: timely push
Direction	int (optional)	0~2	Entrance and exit direction 0: one way 1: Entrance 2: Export
SanpPic	char		Base64 encoding data of real-time captured face images
RegisteredPic	char		Match the base64 encoded data of face images registered in the list database
PushType	int	0~2	Push type 0:reserve 1:reserve 2:call3.32 manual push control recordData return for

e.g.,Raw:

```
-- HEADERS  --
POST /Subscribe/Verify HTTP/1.1
Accept: application/json
Content-Type: application/json; charset=UTF-8
Content-Length: 155265
Accept-Encoding: gzip, deflate
User-Agent: FaceGate-HttpClient/0.0.1
Host:192.168.2.10
Connection: Keep-Alive

--   BODY   --
{
"operator": "VerifyPush",
"info": {
    "DeviceID":1300001,
    "PersonID":1300001,
    "CreateTime":"2018-03-12T09:09:20",
    "Similarity1": 90,
    "Similarity2": 90,
    "VerifyStatus":0,
    "VerfyType":0,
    "PersonType": 0,
    "Name":"hahaha",
    "Gender":0,
    "Nation":1,
    "CardType":0,
    "IdCard":"430923199011044411",
    "Birthday":"1999-11-04",
    "Telnum":"19999999999",
    "Native": Mars,
    "Address": Shenzhen Bao'an,
    "Notes":,
    "MjCardFrom":  2,
    "WGFacilityCode":  9A,
```

```
    "MjCardNo":  1923B,
    "RFIDCard":  "9A01923B",
    "Tempvalid": 0,
    "CustomizeID": 123456,
    "PersonUUID": "4476c20c-23ce-4178-8672-b292d33a3cd8",
    "ValidBegin":"2018-03-12T09:09:20",
    "ValidEnd":"2018-03-12T09:09:20",
    "Sendintime":0
  },
"SanpPic": ".......",
"RegisteredPic": "......."
}
or
{
"operator": "VerifyPush",
"info": {
    "DeviceID":1300001,
    "PersonID":1300001,
    "CreateTime":"2018-03-12T09:09:20",
    "Similarity1": 90,
    "Similarity2": 90,
    "VerifyStatus":0,
    "VerfyType":0,
    "PersonType": 0,
    "Name":"hahaha",
    "Gender":0,
    "Nation":1,
    "CardType":0,
    "IdCard":"430923199011044411",
    "Birthday":"1999-11-04",
    "Telnum":"19999999999",
    "Native": Mars,
    "Address": Shenzhen Bao'an,
    "Notes":,
    "MjCardFrom":  2,
```

```
    "WGFacilityCode":  9A,
    "MjCardNo":  1923B,
    "RFIDCard":  "9A01923B",
    "Tempvalid": 0,
    "CustomizeID": 123456,
    "PersonUUID": "4476c20c-23ce-4178-8672-b292d33a3cd8",
    "ValidBegin":"2018-03-12T09:09:20",
    "ValidEnd":"2018-03-12T09:09:20",
    "Sendintime":1

  },
"RegisteredPic": "......."
}

Or
...
```

3.12.5 QR code reporting

Parameter information:

Key	Type	Values	Description
operator	char	QRCodePush	QR code push
info	json object		concrete content
DeviceID	int		Device ID number of the device
QRcodeInfo	char		QR code content

e.g.,Raw:

```
{
"operator": "QRCodePush",
"info": {
    "DeviceID":1300001,
    "QRcodeInfo":"...."
  }
}
```

3.12.6 reporting of ID card information

Parameter information:

Key	Type	Values	Description
operator	char	IDCardInfoPush	ID card information push
info	json object		concrete content
DeviceID	int		Device ID number of the device
IDCard_Idno	char		ID card No.
IDCard_Name			full name
IDCard_Gender	int		Gender
IDCard_Nation	int		nation:Same as in personnel information
IDCard_Birthday	char		birthday:Year month day
IDCard_Address	char		address
IDCard_Idissue			Issuing authority
IDCard_Idperiod			term of validity:Mm / DD / yyyy - mm / DD / yyyy
IDCard_photo			Photo of ID card

e.g.,Raw:

```
{
    "operator": "IDCardInfoPush",
    "info": {
          "DeviceID": 1300001,
          "IDCard_Idno": "1234567890",
          "IDCard_Name ":" Zhang San ",
          "IDCard_Gender": 1,
          "IDCard_Nation": 1,
          "IDCard_Birthday":"2016-05-06",
```

```
            "IDCard_Address": "xxxxx",
            "IDCard_Idissue": "xxxxxx",
            "IDCard_Idperiod": "20190203-20190304"
        },
        "IDCard_photo": "....."
}
```

3.12.7 report of IC card number certification results (access control)

Parameter information:

Key	Type	Values	Description
operator	char	CardVerify	IC card number authentication result push
info	json object		concrete content
DeviceID	int		Device ID number of the device
CreateTime	char		Certification passing time
CardNo	char		IC card number (no more than 24 bytes)
HasPic	int	0~1	Whether there is a face picture, 0: no face picture, 1: face picture
SanpPic	char		Base64 encoding of captured images

e.g.,Raw:

```
{
"operator": " CardVerify",
"info": {
    "DeviceID":1300001,
    "CreateTime ":"2018-01-01T00:00:00",
    "CardNo ": "……",
    "HasPic ":1,
    "SanpPic": "……"
  }
```

```
}
```

3.12.8 report of password authentication results (access control machine)

Parameter information:

Key	Type	Values	Description
operator	char	PwdVerify	Push password authentication results
info	json object		concrete content
DeviceID	int		Device ID number of the device
CreateTime	char		Certification passing time
HasPic	int	0~1	Whether there is a face picture, 0: no face picture, 1: face picture
SanpPic	char		Base64 encoding of captured images

e.g.,Raw:

```
{
"operator": " PwdVerify ",
"info": {
    "DeviceID":1300001,
    "CreateTime ":"2018-01-01T00:00:00",
    "HasPic ":1,
    "SanpPic": "……"
  }
}
```

3.12.9 query subscribed information

Operator: **GetSubscribe**

URI:**http://<server ipaddr>/action/GetSubscribe**

e.g.,

http://192.168.2.10/action/GetSubscribe

Reply to body

```
{
    "operator": "GetSubscribe",
    "info": {
        "Num": 2,
        "Topics":["Snap", "Verify"],
        "SubscribeAddr":"http://192.168.2.11:8080",
        "SubscribeUrl":{"Snap":"/Subscribe/Snap",
"Verify":"/Subscribe/Verify", "HeartBeat":"/Subscribe/heartbeat"},
        "ResumefromBreakpoint": 0,
        "BeginTime": "2019-11-05T11:44:29",
        "Auth":"none"
    }
}
or
{
    "operator": "GetSubscribe",
    "info": {
        "Num": 1,
        "Topics":["Verify"],
        "SubscribeAddr":"http://192.168.2.11:8080",
        "SubscribeUrl":{"Verify":"/Subscribe/Verify",
"HeartBeat":"/Subscribe/heartbeat"},
        "ResumefromBreakpoint": 1,
        "BeginTime": "2019-11-05T11:44:29",
        "Auth":"Basic",
        "User":"admin",
        "Pwd":"admin"
    }
}
or
{
    "operator": "GetSubscribe",
    "info": {
```

```
        "Num": 1,
        "Topics":["QRCode"],
        "SubscribeAddr":"http://192.168.2.11:8080",
        "SubscribeUrl":{"QRCode":"/Subscribe/QRCode","HeartBeat":"/Su
        bscribe/heartbeat"},
        "ResumefromBreakpoint": 0,
        "BeginTime": "2019-11-05T11:44:29",
        "Auth":"Basic",
        "User":"admin",
        "Pwd":"admin"
    }
}
or
{
    "operator": "GetSubscribe",
    "info": {
        "Num": 0
    }
}
Or
{
    "operator": "GetSubscribe",
    "info": {
        "Num": 2,
        "Topics":["Card", "PassWord"],
        "SubscribeAddr":"http://192.168.2.11:8080",
        "SubscribeUrl":{"Card":"/Subscribe/Card","PassWord
":"/Subscribe/ PassWord", "HeartBeat":"/Subscribe/heartbeat"},
        "ResumefromBreakpoint": 0,
        "BeginTime": "2019-11-05T11:44:29",
        "Auth":"none"
    }
}

or
```

.....

3.13 unsubscribe

Subscription and unsubscribed information, including results of authentication

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	Unsubscribe	Unsubscribe
info	json object		concrete content
DeviceID	int		The device ID number of the equipment to be operated can be accessed through3.9 equipment information acquisition Get.
Num	int	1~2	How many types of information are unsubscribed
Topics	json array	"Snap", "Verify", "VerifyWithSnap", "VerifyWithReg", "VerifyNoPic", "QRCode", "PassWord", "Card"	A collection of single or multiple subscription message types, such as: ["snap"]: unsubscribe real-time snapshot reporting or ["verify": unsubscribe to submit the authentication result or ["verifywithsnap"]: unsubscribe to submit authentication results or ["verifywithreg"]: unsubscribe to submit authentication results

			or ["verifynopic"): unsubscribe from the report of authentication results or ["QRcode": cancel the report of QR code results or ["snap", "verify"] unsubscribe capture and authentication result reporting or "Snap" and ["snap with"] or ["snap", "verifywithreg"] unsubscribe capture and authentication result reporting or ["snap", "verifynopic"] unsubscribe capture and authentication result reporting or ["password", "card"] unsubscribe the report of IC card number authentication result and password authentication result (access control machine)

Operator: **Unsubscribe**

URI:**http://<server ipaddr>/action/Unsubscribe**

e.g.,

http://192.168.2.10/action/Unsubscribe

Issue body

```
{
    "operator": "Unsubscribe",
    "info": {
        "DeviceID": 1300001,
        "Num": 2,
        "Topics":["Snap", "Verify"]
    }
}
Or
{
    "operator": "Unsubscribe",
    "info": {
        "DeviceID": 1300001,
        "Num": 2,
        "Topics":["Snap", "VerifyWithReg"]
    }
}
Or
{
    "operator": "Unsubscribe",
    "info": {
        "DeviceID": 1300001,
        "Num": 1,
        "Topics":["QRCode"]
    }
}
Or
{
    "operator": "Unsubscribe",
    "info": {
        "DeviceID": 1300001,
        "Num": 1,
        "Topics":["PassWord"]
    }
```

```
}
Or
{
    "operator": "Unsubscribe",
    "info": {
        "DeviceID": 1300001,
        "Num": 1,
        "Topics":["Card"]
    }
}
Or
...
```

3.14 subscription heartbeat

The device obtains the address, port and URL of the heartbeat of the subscription from the data subscription information. The device sends the heartbeat information to the subscription address during the whole subscription validity period. The subscriber needs to reply the heartbeat after receiving the heartbeat of the device to maintain the effective connection between the two parties. Once the heartbeat handshake fails, the device will close the connection and try to connect to the subscription address again,The heartbeat interval is set at 30 seconds.The report of heartbeat needs to subscribe to any HTTP subscription (authentication subscription or stranger snapshot subscription, etc.), and cannot subscribe to heartbeat separately.

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	HeartBeat	Unsubscribe
info	json object		concrete content
DeviceID	int		The device ID number of the device to be operated on
Time	char	YYYY-MM-DDThh:m	Device current

		m:ss	time.e.g.,2018-03-25T21:50:05

e.g.,Raw

```
-- HEADERS  --
POST /Subscribe/heartbeat HTTP/1.1
Accept: application/json
Content-Type: application/json; charset=UTF-8
Content-Length: 128
Accept-Encoding: gzip, deflate
User-Agent: FaceGate-HttpClient/0.0.1
Host:192.168.2.10
Connection: Keep-Alive

--   BODY   --
{
    "operator": "HeartBeat",
    "info":{
    "DeviceID": 1300001,
    "Time": "2018-03-12T09:09:20"
    }
}
```

3.15 access camera parameters

This function is aimed at the server device of face capture comparison, which is not supported by the face recognition all-in-one machine.

Get or set the camera parameters, and check the maximum number of cameras that can be connected according to different device models.

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	GetEnterIPC or SetEnterIPC	GetEnterIPC: Get access camera setting parameters SetEnterIPC: Setting access camera

			parameters
info	json object		concrete content
TotalNum	int (optional)		Total number of cameras to be set or returned
IPC_Info	json array (optional)		Set the camera parameter list, and the array member is JSON object
IPC_Channel	int		Camera channel, required when setting camera parameters
IPC_Enable	int (optional)		Camera enable
IPC_URL	char (optional)		IP access to camera (no more than 64 bytes)
IPC_Port	int (optional)		Port to access camera
IPC_Username	char (optional)		User name to access the camera (no more than 32 bytes)
IPC_Password	char (optional)		Password to access camera (no more than 32 bytes)
IPC_Name	char (optional)		Name of access camera (no more than 32 bytes)

3.15.1 access camera parameters

Operator: **GetEnterIPC**

URI:**http://<server ipaddr>/action/GetEnterIPC**

e.g.,

http://192.168.2.10/action/GetEnterIPC

Reply body

```
{
    "operator": "GetEnterIPC",
    "info": {
        "TotalNum": 1,
        "IPC_Info": [
        {
            "IPC_Channel": 0,
            "IPC_Enable": 1,
            "IPC_URL": "192.168.1.1",
            "IPC_Port":5000,
            "IPC_Username": "admin",
            "IPC_Password": "admin",
            "IPC_Name": "ipc1"
        },
        {
            "IPC_Channel": 1,
            "IPC_Enable1": 1,
            "IPC_URL1": "192.168.1.2",
            "IPC_Port1":5000,
            "IPC_Username1": "admin",
            "IPC_Password1": "admin",
            "IPC_Name1": "ipc2"
        },
        ……
        ]
    }
}
```

3.15.2 setting access camera parameters

Operator: **SetEnterIPC**

URI:**http://<server ipaddr>/action/SetEnterIPC**

e.g.,

http://192.168.2.10/action/SetEnterIPC

Issued body

```
{
    "operator": "SetEnterIPC",
    "info": {
        "TotalNum": 4,
        "IPC_Info": [
        {
            "IPC_Channel": 0,
            "IPC_Enable": 1,
            "IPC_URL": "192.168.1.1",
            "IPC_Port":5000,
            "IPC_Username": "admin",
            "IPC_Password": "admin",
            "IPC_Name": "ipc1"
        },
        {
            "IPC_Channel": 1,
            "IPC_Enable": 1,
            "IPC_URL": "192.168.1.1",
            "IPC_Port":5000,
            "IPC_Username": "admin",
            "IPC_Password": "admin",
            "IPC_Name": "ipc2"
            },
        ……
        ]
    }
}
```

3.16 server parameters of face capture comparison

This function is aimed at the server device of face capture comparison, which is not supported by the face recognition all-in-one machine.

Get or set the parameters of the face capture comparison server.

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	GetServerBasicPara or SetServerBasicPara	GetServerBasicPara: Get server parameters SetServerBasicPara: Set server parameters
info	json object		concrete content
InformationRelease	char (optional)		Information release, up to 128 Chinese characters
Channelselection	int (optional)	0,1,2,4,9	The maximum number of paths and adaptive selection, 0: adaptive; 1,2,4,9 correspond to the maximum 1,2,4,9 paths respectively
DisplaySnapVerify	int (optional)	0~1	Time clear snapshot and comparison, 0: not empty, 1: clear.

3.16.1 get server parameters

Operator: **GetServerBasicPara**

URI:**http://<server ipaddr>/action/GetServerBasicPara**

e.g.,

http://192.168.2.10/action/GetServerBasicPara

Reply body

```
{
    "operator": "GetServerBasicPara",
    "info": {
        "Information release": "information release",
        "Channelselection": 0,
        "DisplaySnapVerify": 0
```

```
    }
}
```

3.16.2 setting server parameters

Operator: **SetServerBasicPara**

URI:**http://<server ipaddr>/action/SetServerBasicPara**

e.g.,

http://192.168.2.10/action/**SetServerBasicPara**

Issued body

```
{
    "operator": "SetServerBasicPara",
    "info": {
        "Information release": "information release",
        "Channelselection": 0,
        "DisplaySnapVerify": 0
    }
}
```

3.17 personnel type parameters

This function is aimed at the server device of face capture comparison, which is not supported by the face recognition all-in-one machine.

Gets or sets the personnel type parameter, which supports up to 10 personnel types.

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	GetWorktype orSetWorktype	GetWorktype: Get personnel type SetWorktype: Set personnel type parameters

info	json object		concrete content
TotalNum	int (optional)		Total number of personnel types to be set or returned
WorkTypeInfo	json array		Set the personnel type list, and the array member is JSON object
WorkTypeIndex	int (optional)		How many types of personnel are represented
WorktypeEnable	int (optional)		Worktypeenable indicates that the personnel type is enabled
Worktype	char (optional)		No more than 32 byte personnel type
Num	int (optional)		Personnel type No

3.17.1 get personnel type parameter

Operator: **GetWorktype**

URI:**http://<server ipaddr>/action/GetWorktype**

e.g.,

http://192.168.2.10/action/GetWorktype

Reply body

```
{
    "operator": "GetWorktype",
    "info": {
        "TotalNum":10,
        "WorkTypeInfo":[
        {
            "WorkTypeIndex":0,
```

```
            "WorktypeEnable":1,
            "Worktype": manager,
            "Num": 0
        },
        {
            "WorkTypeIndex":1,
            "WorktypeEnable":1,
            "Worktype": employee,
            "Num": 1
        },
        ……
        ]
    }
}
```


3.17.2 setting personnel type parameters

Operator: **SetWorktype**

URI:**http://<server ipaddr>/action/SetWorktype**

e.g.,

http://192.168.2.10/action/**SetWorktype**

Issued body


```
{
    "operator": "SetWorktype",
    "info": {
        "TotalNum":10,
        "WorkTypeInfo":[
        {
            "WorkTypeIndex":0,
            "WorktypeEnable":1,
            "Worktype": manager,
            "Num": 0
        },
        {
```

```
            "WorkTypeIndex":1,
            "WorktypeEnable1":1,
            "Worktype1": employees,
            "Num1": 0
        },
        ……
        ]
    }
}
```

3.18 face service function

This function is aimed at the server device of face capture comparison, which is not supported by the face recognition all-in-one machine.

The function of face service includes: extracting feature code from image, comparing similarity of feature code, obtaining face image.

3.18.1 image extraction feature code

Operator: **HttpGetFaceSignature**

URI:**http://<server ipaddr>/action/GetFaceSignature**

e.g.,

http://192.168.2.10/action/GetFaceSignature

Issued body

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	GetFaceSignature	Get face image feature code
picinfo	char		Base64 encoded data of face image (no more than 1m)

```
{
```

```
    "operator": "GetFaceSignature",
    "picinfo":"......"
}
```

Reply to the correct body

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	GetFaceSignature	Get face image feature code
info	json object		concrete content
FeatureData	char		Face feature Base64 encoded data
FeatureLen	int		Face feature Base64 encoding data length
Gender	int		Gender: 0: male; 1: uncertain; 2: female
Age	int		Age

```
{
    "operator": "GetFaceSignature",
    "info": {
        "FeatureData":"4AAQSkZJRgABAQAAAQAB......",
        "FeatureLen": "6144",
        "Gender": 0,
        "Age":21
    }
}
```

3.18.2 feature code comparison similarity

Operator: **GetSignatureSimilarity**

URI:**http://<server ipaddr>/action/GetSignatureSimilarity**

e.g.,

http://192.168.2.10/action/GetSignatureSimilarity

Issued body

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	GetSignatureSimilarity	Comparison of similarity between feature codes
Signature1	char		Signature code Base64 encoding data (no more than 1m)
Signature2	char		Signature code Base64 encoding data (no more than 1m)

```
{
    "operator": "GetSignatureSimilarity",
    "Signature1":"d4AAQSkZJRgABAQAAAQAB......",
    "Signature2":"4AAQSkZJRgABAQAAAQAB......"
}
```

Reply to the correct body

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	GetSignatureSimilarity	Get the feature code comparison similarity
info	json object		concrete content
Similarity	float		Feature code similarity

```
{
    "operator": "GetSignatureSimilarity",
    "info": {
        "Similarity":80
     }
}
```

3.18.3 obtaining face images

Operator: **GetImage**

URI:**http://<server ipaddr>/action/GetImage**

e. G., according to the returned file type, file index, file location, get the face image

http://192.168.2.10/action/GetImage

Issued body

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	GetImage	Search local face database by graph
info	json object		concrete content
Filetype	unsigned int	0~2	0: real time photo file type of ID card
Fileindex	unsigned int		File index reference 3.25.2 to search local face database
Filepos	unsigned int		Refer to 3.25.2 for file location to search local face database

```
{
    "operator": "GetImage",
    "info": {
        "Filetype":1,
        "Fileindex":0,
        "Filepos":0
     },
   "picinfo":"....."
}
```

Reply to the correct body

Face feature length + face feature length

Key	Type	Values	Description
operator	char	HttpGetImage	HttpGetImage: Get face image
info	json object		concrete content
FeatureData1	char		Face image data

```
{
"4AAQSkZJRgABAQAAAQAB......"
}
```

3.19 list search query

According to the corresponding search criteria to query the list of search criteria.

Return the body parameter information of the list:

Key	Type	Values	Description
operator	char	SearchPerson or SearchPersonList	SearchPerson: Single list query SearchPersonList: Multiple list queries
info	json object		concrete content
DeviceID	int		The device ID number of the equipment to be operated can be accessed through3.9 equipment information acquisition Get.
LibID	int		List database ID
PersonType	int	0~1	List type 0: White list 1: blacklist
Name	char		Name, maximum length 32 characters (including

			ending)
Gender	int	0~1	Gender 0: male 1: female
Nation	int	1~57	nation 1: "Han" SeeAppendix D.1 Nationalities
CardType	int		Document type 0:ID
IdCard	char		ID number, the maximum length is 32 characters (including ending character)
Birthday	char	YYYY-MM-DD	Birthday, e.g., January 1, 2018
Telnum	char		Phone number, up to 32 characters long (including terminator)
Native	char		Native place, the maximum length is 32 characters (including ending character)
Address	char		Address, with a maximum length of 72 characters (including terminator)
Notes	char		Note, the maximum length is 64 characters (including terminator)
MjCardFrom	int	0~3	The generating mode of wiegenka number 0: Public card number 1: Automatic generation 2: Manual input 3: Do not use access

			card number
WGFacility Code	int (optional)		Facility code; when3.2 door opening conditions When Wiegand = 4 or 5 or 6 or 7 in, together with the mjcardno field, the Wiegand number is formed; when Wiegand = 0 or 1, this parameter has no practical significance. See3.10.5 Wigan access card number and built-in swipe ID card number
MjCardNo	unsigned int		Weigan access card number (userid). When3.2 door opening conditions When Wiegand = 4 or 5 or 6 or 7 in, it is combined with wgfacility code field to form the weigenka number; when Wiegand = 0 or 1, it forms the weigenka number alone. See3.10.5 Wigan access card number and built-in swipe ID card number
RFIDCard	Char (optional)		ID card number, the maximum length is 18 characters. For the built-in card reader (including the end character), please refer to3.10.5 Wigan access card number and built-in swipe ID card

			number
Tempvalid	int	0~3	Is it a temporary list 0: Permanent effective list 1: Provisional list 2: Provisional list 2 3: Provisional list 3
CustomizeID	unsigned int		The ID number of the user can be modified by the user ID number.Note: you can't use the same ID to add personnel repeatedly, otherwise it will cause errors in modification, deletion and other operations.
PersonUUID	char		The user-defined personnel UUID number (no more than 48 bytes) can be modified and deleted through this ID number to manage the corresponding personnel information.Note: the same UUID cannot be used repeatedly to add personnel, otherwise it will cause errors in modification, deletion and other operations.
EffectNumber	int		The effective times of personnel in temporary list 3. When the list

			type is temporary list 3, the valid times are returned
ValidBegin	char	YYYY-MM-DDThh:mm:ss	If it is a provisional list, the start time of the provisional list's entry into force, e.g., 2018-03-12t09:09:20
ValidEnd	char	YYYY-MM-DDThh:mm:ss	If it is a temporary list, the end time of the temporary list taking effect, e.g., 2018-03-12t09:10:00
picinfo	char		Base64 encoding data of face image

3.19.1 single list query

Operator: SearchPerson
URI: http://<server ipaddr>/action/SearchPerson

e. G., query the list based on the customized ID, UUID, or database ID you are looking for
http://192.168.2.10/action/SearchPerson
Issued body
Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	SearchPerson	SearchPerson: List search based on customeid, UUID, or database ID
info	json object		concrete content
DeviceID	int		The ID of the device
SearchType	int	0~2	0:CustomizeID 1:UUID

	(optional)		2:ID database
SearchID	char		Searchid, UUID content, or database ID
Picture	int	0~1	Include picture information 0:List without picture information 1:List with picture information

```
{
    "operator": "SearchPerson",
    "info": {
        "DeviceID":1300001,
        "SearchType":0,
        "SearchID":"1234",
        "Picture":1
    }
}
Or
{
    "operator": "SearchPerson",
    "info": {
        "DeviceID":1300001,
        "SearchType":1,
        "SearchID":"5763a498-2fce-4d25-aa00-45b8278d9788",
        "Picture":1
    }
}
Or
{
    "operator": "SearchPerson",
    "info": {
        "DeviceID":1300001,
        "SearchType":2,
```

```
        "SearchID":"1",
        "Picture":1
    }
}
```

Reply to the correct body

```
{
    "operator": "SearchPerson",
    "info": {
        "DeviceID": 1300001,
        "LibID": 1,
        "PersonType": 0,
        "Name": "test",
        "Gender": 0,
        "Nation": 1,
        "CardType": 0,
        "IdCard": " ",
        "Birthday": "2000-01-01",
        "Telnum": " ",
        "Native": " ",
        "Address": " ",
        "Notes": " ",
        "MjCardFrom":  2,
        "WGFacilityCode":  9A,
        "MjCardNo":  1923B,
        "RFIDCard":  "9A01923B",
        "Tempvalid": 0,
        "CustomizeID": -2,
        "PersonUUID": " ",
        "ValidBegin": "1970-01-01T08:00:00",
        "ValidEnd": "1970-01-01T08:00:00"
     }
    },
    " picinfo ": "......."
```

```
}
Or
....
```

3.19.2 total number of query lists

Operator: **SearchPersonNum**

URI: **http://<server ipaddr>/action/SearchPersonNum**

e. G. returns the total number of qualified lists according to the query criteria

Search Description:

1、 Search by time:Set the start time and end time of search. The name is empty

2、 Search by name or fuzzy Name: Set the start time and end time of search to be empty, and the name should not be empty

http://192.168.2.10/action/SearchPersonNum

Issued body

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	SearchPersonNum	SearchPersonNum: Returns the total number of qualified lists according to the query criteria
info	json object		concrete content
DeviceID	int		The ID of the device
PersonType	int (optional)	0~2	List type 0:Whitelist 1:Blacklist 2:All
BeginTime	char (optional)		Starting time of search
EndTime	char		The end time of the

	(optional)		search
Gender	int (optional)		Gender 0:Male 1:female
Age	char (optional)		Age range:For example, 1-100
MjCardNo	unsigned int (optional)		Access control card number 0:The condition is invalid
Name	char (optional)		Name (no more than 32 bytes)

```
{
    "operator": "SearchPersonNum",
    "info": {
         "DeviceID":1300196,
        "PersonType":0,
        "BeginTime":"2018-06-01T00:00:00",
        "EndTime":"2018-06-19T23:59:59",
        "Gender":2,
        "Age":"0-100",
        "MjCardNo":0,
        "Name":""
  }
}
Or
{
    "operator": "SearchPersonNum",
    "info": {
         "DeviceID":1300196,
        "PersonType":0,
        "BeginTime":"",
        "EndTime":"",
        "Gender":2,
        "Age":"0-100",
        "MjCardNo":0,
```

```
        "Name":"test"
  }
}
Or
....
```

Return parameter information (Note: optional is optional)

MaxListsNum	unsigned int		The maximum total number of lists supported by the device
PersonNum	unsigned int		Number of lists matching query criteria

Reply to the correct body

```
{
    "operator": "SearchPersonNum",
    "info": {
        "DeviceID":1300001,
        "MaxListsNum":  24576,
        "PersonNum":8
     }
}
```

3.19.3 multiple list queries

Operator: **SearchPersonList**

URI: **http://<server ipaddr>/action/SearchPersonList**

e. G. query the list according to the query conditions, the starting position to be searched and the number of lists to be queried

Search Description:

1、 Search by time:Set the start time and end time of search. The name is empty

2、 Search by name or fuzzy Name: Set the start time and end time of search to be empty, and the name should not be empty

http://192.168.2.10/action/SearchPersonList

Issued body

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	SearchPersonList	SearchPersonList: Returns the list based on the starting position and the number of queries
info	json object		concrete content
DeviceID	int		The ID of the device
PersonType	int (optional)	0~2	List type 0:Whitelist 1:黑名单 2:All
BeginTime	char (optional)		Starting time of search
EndTime	char (optional)		The end time of the search
Gender	int (optional)	0~2	Gender 0:Male 1:Female 2:All
Age	char (optional)		Age range:For example, 1-100
MjCardNo	unsigned int (optional)		Access control card number 0:The condition is invalid
Name	char (optional)		full name
BeginNO	int (optional)		Query the starting position of the list, that is, from whom to start

RequestCount	int (optional)		The total number of messages returned from the query list can be up to 100, and only 100 messages can be returned if the setting is more than 100.
Picture	int	0~1	Include picture information 0:List without picture information 1:List with picture information

```
{
    "operator": "SearchPersonList",
    "info": {
        "DeviceID":1300001,
        "PersonType":0,
        "BeginTime":"2018-06-01T00:00:00",
        "EndTime":"2018-06-19T23:59:59",
        "Gender":2,
        "Age":"0-100",
        "MjCardNo":0,
        "Name":"",
        "BeginNO":0,
        "RequestCount":1,
        "Picture":1
    }
}
Or
{
    "operator": "SearchPersonList",
    "info": {
        "DeviceID":1300001,
```

```
        "PersonType":0,
        "BeginTime":"",
        "EndTime":"",
        "Gender":2,
        "Age":"0-100",
        "MjCardNo":0,
        "Name":"test",
        "BeginNO":0,
        "RequestCount":10,
        "Picture":1
    }
}
```

Body format of reply to searchpersonlist:

```
{
    "operator": "SearchPersonList",
    "info": {
        "DeviceID":1300001,
        "Listnum":100,
        "List":[
        {
          PersonInfo
        },
        {
          PersonInfo
        },
        …
        ]
    }
}
```

Reply to the correct body

```
{
    "operator": "SearchPersonList",
```

```
"info": {
    "DeviceID":1300001,
    "Listnum":100,
    "List":[
    {
        "DeviceID": 1300001,
        "LibID": 1,
        "PersonType": 0,
        "Name": "test",
        "Gender": 0,
        "Nation": 1,
        "CardType": 0,
        "IdCard": " ",
        "Birthday": "2000-01-01",
        "Telnum": " ",
        "Native": " ",
        "Address": " ",
         "Notes": " ",
         "MjCardFrom":  2,
         "WGFacilityCode":  9A,
         "MjCardNo":  1923B,
         "RFIDCard":  "9A01923B",
         "Tempvalid": 0,
         "CustomizeID": -2,
         "PersonUUID": " ",
         "ValidBegin": "1970-01-01T08:00:00",
         "ValidEnd": "1970-01-01T08:00:00"
         "Picinfo": "......."
    },
    {
    PersonInfo...
    },
    …
    ]
}
```

```
}
```

3.20 door opening control

Control the door opening.

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	OpenDoor	Open the door directly. Is the specific control switch value or can be checked by weigen 3.2 door opening conditionsWeigan uses a public card number
info	json object		concrete content
DeviceID	int		The device ID number of the equipment to be operated can be accessed through3.9 equipment information acquisition Get.
Chn	int	0~9	This parameter is invalid for face capture comparison server and face recognition all-in-one machine
status	int		If the value is greater than 0, the door can be opened only when the value is greater than 0. It does not need to

			display the content. This parameter can be used with MSG.
msg	char		Set the current display content of the device, such as: please pass, no access, etc., and the content is in UTF-8 format.This parameter is not required to display the content. It is used with status.

Operator: **OpenDoor**

URI:**http://<server ipaddr>/action/OpenDoor**

e.g.,

http://<server ipaddr>/action/OpenDoor

Issue body

```
{
    "operator": "OpenDoor",
    "info": {
        "DeviceID": "1300001",
        "Chn": 0,
        "status": 0,
        "MSG": "please pass"
     }
}

Or：
{
    "operator": "OpenDoor",
    "info": {
        "DeviceID": "1300001",
```

```
        "Chn": 0,
    }
}
```

3.21 password operation

This function is for access control equipment.

3.21.1 temporary password acquisition

Parameter information:

Key	Type	Values	Description
operator	char	GetAccessTempPwd	GetAccessTempPwd: Obtain temporary door opening password
info	json object		concrete content
TempPwd	char		Temporary password (8 bytes)
ValidPeriod	char		The period of validity of the temporary password

Operator: SearchPerson

URI: http://<server ipaddr>/action/GetAccessTempPwd

e.g.,

http://192.168.2.10/action/ GetAccessTempPwd

Reply to body

```
{
    "operator": "GetTempPwd",
    "info": {
        "TempPwd": "195723",
        "ValidPeriod": "2018-11-16 17:00:00 ~ 2018-11-16 17:59:59"
```

```
    }
}
```

3.21.2 password addition

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	AddAccessPwd	AddAccessPwd: Add a new password
info	json object		concrete content
AccessPwd	json array		Cryptoset

Operator: **SearchPerson**

URI: **http://<server ipaddr>/action/**AddAccessPwd

e.g.,

http://192.168.2.10/action/AddAccessPwd

Issue body

```
{
    "operator": "AddAccessPwd",
    "info": {
        "AccessPwd": ["123465","521423","565424","456826","95468"]
    }
}
```

3.21.3 password deletion

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	DelAccessPwd	DelAccessPwd: Delete added password
info	json object		concrete content
AccessPwd	json array		One or more sets of passwords

Operator: **SearchPerson**

URI: **http://<server ipaddr>/action/DelAccessPwd**

e.g.,

http://192.168.2.10/action/DelAccessPwd

Issue body

```
{
    "operator": "DelAccessPwd",
    "info": {
        "AccessPwd": ["123465","521423"]
    }
}
```

3.21.4 all passwords are cleared

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	ClearAccessPwd	ClearAccessPwd: Delete added password
info	json object		concrete content
DeviceID	int		The ID of the device

Operator: **SearchPerson**

URI: **http://<server ipaddr>/action/ClearAccessPwd**

e.g.,

http://192.168.2.10/action/ClearAccessPwd

Issue body

```
{
    "operator": "ClearAccessPwd",
    "info": {
        "DeviceID": 1300000
    }
```

```
}
```

3.22 control record query

The control record query mainly includes the total number of control records and the information query of control record personnel.
Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	SearchControlNum or SearchControl	SearchControlNum:Control the total number of records by condition query SearchControl: Query control records according to conditions
info	json object		concrete content
DeviceID	int		The ID of the device
SearchType	int (optional)	0~1	Search type: 0: search by criteria (name, time, etc.) 1: search by database ID + time. If this field is not set, the default is search by criteria
IdType	int	0~2	If the SearchType is 1, i.e. ID + time, this item is required. 0:CustomizeID 1:LibID 2:PersonUUID
CustomizeID	unsigned int		User defined ID

	(optional)		
LibID	unsigned int (optional)		List database ID (not control record database ID, if it is equal to 0, this data is the control record generated before the list is deleted)
PersonUUID	char (optional)		UUID of list database (no more than 48 bytes)
Name	char (optional)		Name (search according to the name, default does not judge the conditions of condition search); if you are looking for remote door opening control record, please enter "remote door opening"
MjCardNo	unsigned int (optional)		The access card number is 0 by default
Gender	int (optional)	0~2	Gender 0:Male 1:Female 2:All, If this field is not set, the default is all
OpenDoor	int (optional)	0~2	0: All 1: Open the door 2: Reject, do not set this field to all by default
Channel	int (optional)	0~8	Analyze the channel number of the server.

			If the field is not set, the default is all-in-one machine
BeginTime	char		Search start time, required
EndTime	char		Search end time, required
Ascending	int (optional)	0 ~ 1 (default 0)	Search results in ascending or descending order 0: ascending (results move backward from search start time) 1: Descending (results move forward from search end time)
Age	char (optional)		Age range, such as 1-100. If this field is not set, the default value is 0-200
BeginNO	int (optional)		Return the starting sequence number. If it is not set, it will start from 0 by default
RequestCount	int (optional)	0~100	The maximum number of returned records is 100. If it is not set, the maximum number of returned records is 20
Picture	int (optional)	0~3	Include pictures 0:No pictures 1:Include

			registration image 2:Include captured pictures 3:Include registration + capture pictures
RemoteOpenDoor	int (optional)	1	If it is a call3.20 door opening controlOpen door control record of, return this identification.

3.22.1 total number of control records query

Query the total number of control records according to the time condition.

Operator: **SearchControlNum**
URI: **http://<server ipaddr>/action/SearchControlNum**

http://192.168.2.10/action/SearchControlNum
Issued body

```
{
    "operator": "SearchControlNum",
    "info": {
        "DeviceID": 1305433,
        "BeginTime": "2020-01-01T00:00:00",
        "EndTime": "2020-12-13T23:09:00"

    }
}
```

Parameter information returned:

Key	Type	Values	Description
operator	char	SearchControlNum	SearchControlNum:Control the total number of records by condition query
info	json object		concrete content
DeviceID	int		The ID of the device
ControlNum	int		Returns the total number of control records by time condition

Returned body:

The total number of control records returned by condition

```
{
        "operator":  "SearchControlNum",
        "info":  {
                "DeviceID":  1305433,
                "ControlNum":  23
        }
}
```

3.22.2 control record personnel information query

Query and control the personnel information according to the conditions.

Operator: **SearchControl**
URI: **http://<server ipaddr>/action/SearchControl**

http://192.168.2.10/action/SearchControl
Issued body

e.g.,

http://<server ipaddr>/action/SearchControl

Body:

Search by time:

```
{
    "operator": "SearchControl",
    "info": {
        "DeviceID": 1300001,
        "BeginTime": "2018-11-13T00:00:00",
        "EndTime": "2018-11-13T23:59:59",
        "Picture": 2
    }
}
```

Or

Limit the number of returned lists:

```
{
    "operator": "SearchControl",
    "info": {
        "DeviceID": 1300001,
        "BeginTime": "2018-11-13T00:00:00",
        "EndTime": "2018-11-13T23:59:59",
        "RequestCount": 10,
        "Picture": 2
    }
}
```

Or

Limit the number of returned lists and where to start:

```
{
    "operator": "SearchControl",
    "info": {
        "DeviceID": 1300001,
        "BeginTime": "2018-11-13T00:00:00",
        "EndTime": "2018-11-13T23:59:59",
        "BeginNO": 5,
        "RequestCount": 10,
```

```
        "Picture": 2
    }
}
```

Or

According to the name search, you can fuzzy search:

```
{
    "operator": "SearchControl",
    "info": {
        "DeviceID": 1300122,
        "Name": Zhang San,
        "BeginTime": "2018-11-13T00:00:00",
        "EndTime": "2018-11-13T23:59:59",
        "Picture": 3
    }
}
```

Or

Search based on the list of userid: 1, customiid: 0:

```
{
    "operator": "SearchControl",
    "info": {
        "DeviceID": 1300122,
        "SearchType": 1,
        "IdType": 1,
        "LibID":1,
        "BeginTime": "2018-11-13T00:00:00",
        "EndTime": "2018-11-13T23:59:59",
        "Picture": 0
    }
}
```

Or

```
{
    "operator": "SearchControl",
    "info": {
        "DeviceID": 1300122,
        "SearchType": 1,
```

```
        "IdType": 0,
        "CustomizeID":1234,
        "BeginTime": "2018-11-13T00:00:00",
        "EndTime": "2018-11-13T23:59:59",
        "Picture": 0
    }
}
or
{
    "operator": "SearchControl",
    "info": {
        "DeviceID": 1300122,
        "SearchType": 1,
        "IdType": 2,
        "PersonUUID": ".....",
        "BeginTime": "2018-11-13T00:00:00",
        "EndTime": "2018-11-13T23:59:59",
        "Picture": 0
    }
}
Or
The server searches by channel:
{
    "operator": "SearchControl",
    "info": {
        "DeviceID": 1300122,
        "BeginTime": "2018-11-13T00:00:00",
        "EndTime": "2018-11-13T23:59:59",
        "Channel": 1,
        "Picture": 0
    }
}



......
```

Parameter information returned:

Key	Type	Values	Description
operator	char	SearchControl	SearchControl: Query control records according to conditions
info	json object		concrete content
DeviceID	int		The ID of the device
TotalNum	int	0~100	Returns the number of control records. By default, the maximum number of returned records is 100
SearchInfo			Return to search results list
LibID	int		The database ID of the control record
VerfyType	int	1: Or 22 ~ 27 ~ 27 ~ 3 or 22 ~ 3; 2: Special machines: Support mask detection or (|) operation, and 0x100 indicates passing with mask detection; It supports temperature detection or (|) operation, and 0x200 indicates that it has temperature detection; Support mask + body temperature detection or (|) operation. 0x300 indicates that the mask + body temperature detection is available; For example:Mask + whitelist verification (0x101)	Validation type. 1: Whitelist verification 2: ID card verification 3: White list + ID card verification 21:RF card verification (built-in swipe card model) 22:RF card verification + whitelist verification (built-in swipe card model) 24:Wegenka verification 25:Wegenka + whitelist verification 27:HTTP remote door opening

		Body temperature + whitelist verification (0x201) Mask + body temperature + Wigan swipe card + white list verification (0x319)	
Time	char		Certification passing time
VerifyStatus	char	0~2	Personnel access status 0:None: 1Allow 2:refuse
Similarity	float		Similarity
PersonType	int		List type 0:White list: 1blacklist
Name	char		Name (no more than 32 bytes)
WGFacilityCode	int (optional)		Facility code; when3.2 door opening conditions When Wiegand = 4 or 5 or 6 or 7 in, together with the mjcardno field, the Wiegand number is formed; when Wiegand = 0 or 1, this parameter has no practical significance. See3.10.5 Wigan access card number and built-in swipe ID card number
MjCardNo	unsigned int		Weigan access card number (userid). When3.2 door opening conditions When

			Wiegand = 4 or 5 or 6 or 7 in, it is combined with wgfacility code field to form the weigenka number; when Wiegand = 0 or 1, it forms the weigenka number alone. See3.10.5 Wigan access card number and built-in swipe ID card number
RFIDCard	Char (optional)		ID card number, the maximum length is 18 characters, for the built-in card reader (including the end character). See3.10.5 Wigan access card number and built-in swipe ID card number
Gender	int	0~2	Gender 0:Male 1:Female 2:All
Nation	int		nation
IdCard	char		ID card number
Birthday	char		date of birth
Telnum	char		phone number
Native	char		Native place
Address	char		address
CustomizeID	unsigned int		User defined ID
PersonUUID	char		User defined UUID
Temperature	double	37.20	Real time detection of face temperature, when3.27 temperature parametersOnly when facemask tptmode =

			1,4,5 mode is returned (temperature detection machine version support)
TemperatureAlarm	int	0~1	Real time detection of whether the face temperature exceeds the threshold, 0: not exceeded; 1: over (temperature detection machine version support)
RegPicinfo	Char		Base64 encoding of registered images
SnapPicinfo	Char		Base64 encoding of captured images

Returned body:

Search results according to search criteria:


```
{
    "operator": "SearchControl",
    "info": {
        "DeviceID": 1300122,
        "TotalNum": 1,
        "SearchInfo": [
            {
                "LibID": 12,
                "Time": "2018-11-13T16:13:06",
                "VerifyStatus": 1,
                "Similarity": 96.6,
                "PersonType": 0,
                "Name": "test",
                "MjCardFrom":  2,
                "WGFacilityCode":  9A,
                "MjCardNo":  1923B,
                "RFIDCard":  "9A01923B",
                "Gender": 0,
                "Nation": 1,
                "IdCard": " ",
                "Birthday": "1973-11-13",
                "Telnum": " ",
                "Native": " ",
                "Address": " ",
                "SnapPicinfo": "....",
                "RegPicinfo": "...."
            },
            {
                ......
            },
            ......
        ]
    }
}
```

Or

Search based on the ID of the list:

```
{
    "operator": "SearchControl",
    "info": {
        "DeviceID": 1305969,
        "LibID": 9,
        "VerifyStatus": 1,
        "Similarity": 88.3,
        "PersonType": 0,
        "Name": "1537494887517",
        "MjCardFrom":  2,
        "WGFacilityCode":  9A,
        "MjCardNo":  1923B,
        "RFIDCard":  "9A01923B",
        "Gender": 0,
        "Nation": 1,
        "IdCard": " ",
        "Birthday": "1985-11-16",
        "Telnum": " ",
        "Native": " ",
        "Address": " ",
        "CustomizeID": 0,
        "PersonUUID": " ",
        "TotalNum": 2,
        "SearchInfo": [
            {
                "Time": "2018-11-16T15:56:50",
                "SnapPicinfo": "....",
                "RegPicinfo": "...."
            },
            {
                "Time": "2018-11-16T15:56:43",
                "SnapPicinfo": "....",
                "RegPicinfo": "...."
```

```
                }
            ]
        }
}
```

3.23 common configuration settings

Get or set common parameter configuration information.

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	SetGeneralParam or GetGeneralParam	Setgeneralparam: setting common configuration parameters Getgeneral: get common parameters
DeviceID	int		The ID of the device
info	json object		concrete content
FaceThreshold	int (optional)	50 ~ 100	Black and white list comparison threshold
IDCardThreshold	int (optional)	50 ~ 100	Threshold comparison ID card
ControlType	int (optional)	0~2	0:Switch value: 1: Wigan interface 26; 2: Wigan interface 34
LiveThreshold	double (optional)	0~1	Live detection threshold (not settable)
LiveFrameNum	int (optional)		Number of consecutive frames in vivo detection (not settable)
AutoRebootDay	int (optional)	0~8	Device auto restart set date 0:Do not restart; 1: restart every day; 2~8: Restart auto day 1 week
AutoRebootHour	int (optional)	0~23	Device restart on time

Direction	int (optional)	0~2	Entrance and exit direction 0: one way 1: Entrance 2: Export
IPAddr	char (optional)		Device IP address (64 bytes)
Submask	char (optional)		Device subnet mask (32 bytes)
Gateway	char (optional)		Device gateway (32 bytes)
DNS	char (optional)		Device DNS (32 bytes)
DHCP	int (optional)	0~2	

3.23.1 obtaining common setting parameters

Operator: **GetGeneralParam**

URI: **http://<server ipaddr>/action/GetGeneralParam**

e.g.,

http://172.168.2.10/action/GetGeneralParam

Reply to body:


```
{
        "operator":  "GetGeneralParam",
        "DeviceID":  1379743,
        "info":  {
                "FaceThreshold":  90,
                "IDCardThreshold":  50,
                "ControlType":  0,
                "AutoRebootDay":  0,
                "AutoRebootHour":  0,
                "Direction":0,
                "IPAddr":  "172.168.2.93",
                "Submask":  "255.255.255.0",
                "Gateway":  "172.168.2.1",
                "DNS":  "202.96.134.33"
```

```
        }
}
```

3.23.2 setting common parameters

Operator: **SetGeneralParam**
URI: **http://<server ipaddr>/action/SetGeneralParam**

e.g.,
http://172.168.2.10/action/SetGeneralParam
Issue body:

```
{
  "operator": "SetGeneralParam",
  "DeviceID": 1305269,
  "info": {
    "FaceThreshold": 75,
    "IDCardThreshold": 50,
    "ControlType": 0,
    "Direction":  0,
    "AutoRebootDay": 0,
    "AutoRebootHour": 0,
    "IPAddr": "172.168.2.130",
    "Submask": "255.255.255.0",
    "Gateway": "172.168.2.1",
    "DNS": "202.96.134.33"
  }
}
```

3.24 restart the device

Get or set common parameter configuration information.

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	RebootDevice	RebootDevice:reboot device
info	json object		concrete content
DeviceID	int		The ID of the device
IsRebootDevice	int (optional)	0~1	0:Do not restart the device

			1:reboot device

Operator: RebootDevice

URI: http://<server ipaddr>/action/RebootDevice

e.g.,

http://172.168.2.10/action/RebootDevice

body:

```
{
  "operator": "RebootDevice",
  "info": {
    "DeviceID": 1305269,
    "IsRebootDevice": 1
  }
}
```

3.25 image service function

Image service functions include: image similarity comparison, local face database search, face detection and panoramic image acquisition.

3.25.1 picture comparison similarity

Operator: GetPictureSimilarity

URI:http://<server ipaddr>/action/GetPictureSimilarity

e.g.,

http://192.168.2.10/action/GetPictureSimilarity

Issued body

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	GetPictureSimilarity	Get the similarity of personnel pictures
picinfo1	char		Base64 encoded data of face image (no more than 1m)
picinfo2	char		Base64 encoded data of face image (no more than

			1m)

```
{
"operator":"GetPictureSimilarity",
"picinfo1":"......",
"picinfo2":"......"
}
```

Reply to the correct body

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	GetPictureSimilarity	Get the similarity of personnel pictures
info	json object		concrete content
Similarity	float		Face image similarity

```
{
    "operator": "GetPictureSimilarity",
    "info": {
        "Similarity":80
     }
}
```

3.25.2 search local face database by graph

Operator: **GetPictureSearch**

URI:**http://<server ipaddr>/action/GetPictureSearch**

e.g.,

http://192.168.2.10/action/GetPictureSearch

Issued body

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	GetPictureSearch	Search local face database by graph

info	json object		concrete content
MaxSimilarity	float		Similarity threshold
MaxNum	int		Maximum number
picinfo	char		Base64 encoded data of face image (no more than 1m)

```
{
    "operator": "GetPictureSearch",
    "info": {
        "MaxSimilarity":80,
        "MaxNum":5
     },
  "picinfo":"......"
}
```

Reply to the correct body

Parameter information: personnel information + personnel information + personnel information + personnel information

(the detailed description of the field can be referred to3.10 addition, editing and modification of the list)

Key	Type	Values	Description
operator	char	GetPictureSearch	Get the information and pictures that meet the requirements of face images
info	json object		concrete content
TotalNum	int		The total number of lists returned by search results
SearchInfo			List of returned lists
Uid	unsigned int		ID database
Type	int	0~1	List type 0: White list: 1 blacklist

Name	char		Name (no more than 64 bytes)
Cardtype	int		Enter card number type
MjCardNo	unsigned int		Access card number
Sex	int		Gender
Nation	int		nation
Certype	int		Document type
Cernumber	char		ID card number (no more than 32 bytes)
Birth	char		date of birth
Phone	char		phone number
Place	char		Native place (no more than 32 bytes)
Addr	char		Address (no more than 72 bytes)
Notes	char		Remarks (no more than 64 bytes)
Filetype	int		file type
Fileindex	unsigned int		Document No
Filepos	unsigned int		position
CustomizeID	unsigned int		The ID number of the user can be modified by the user ID number.Note: you can't use the same ID to add personnel repeatedly, otherwise it will cause errors in modification, deletion and other operations.
PersonUUID	char		The user-defined personnel UUID

			number (no more than 48 bytes) can be modified and deleted through this ID number to manage the corresponding personnel information.Note: the same UUID cannot be used repeatedly to add personnel, otherwise it will cause errors in modification, deletion and other operations.
Time	char		Creation time


```
{
    "operator": "GetPictureSearch",
    "info": {
        "TotalNum":1,
        "SearchInfo":[
        {
            "Uid":0,
            "Type": 0,
            "Name":"test",
            "Cardtype":0,
            "MjCardNo":0,
            "Sex":0,
            "Nation":0,
            "Certype":0,
            "Cernumber":"421128188905061144",
            "Phone":"13691111112",
            "Place": Shenzhen Bao'an,
```

```
            "Addr": Shenzhen Bao'an,
            "Notes": "notes",
            "Filetype": 0,
            "Fileindex": 0,
            "Filepos": 0,
            "Time":"2018-03-12/09:09:20"
        }
       ]
    }
}
```

3.25.3 face detection

Operator: **DetectFaceFromPic**

URI:**http://<server ipaddr>/action/DetectFaceFromPic**

e.g.,

http://192.168.2.10/action/DetectFaceFromPic

Issued body

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	DetectFaceFromPic	Face detection
info	json object		concrete content
picinfo	char		Base64 encoded data of face image (no more than 1m)

```
{
    "operator": "DetectFaceFromPic",
    "info": {
     },
  "picinfo":"......"
}
```

Reply to the correct body

Parameter information: whether face is detected

Key	Type	Values	Description
operator	char	DetectFaceFromPic	Face detection
info	json object		concrete content
DetectFace	int	0~1	Face detection results: 0: no face was detected 1: Face detected

```
{
    "operator": "DetectFaceFromPic",
    "info": {
        "DetectFace":1,
    }
}
```

3.25.4 manual capture

The manual capture interface is only supported in special version (the beginning version of V14). This interface supports the acquisition of panoramic images of devices or the return of face images.

Operator: **FrontalFaceSnap**

URI:**http://<server ipaddr>/action/FrontalFaceSnap**

e.g.,

http://192.168.2.10/action/FrontalFaceSnap

Issued body

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	FrontalFaceSnap	Capture panorama
info	json object		concrete content
DeviceID	int		Device ID
Overall	int	0~1	Picture type 0: get face image

			(return for timeout if failed) 1: Capture panorama

```
{
"operator": "FrontalFaceSnap",
"info": {
      "DeviceID": 1300001,
      "Overall":1
     }
}
```

Reply to the correct body

Parameter information:

Key	Type	Values	Description
operator	char	FrontalFaceSnap	Manual capture
FacePic	char		Base64 encoding data of the image (no more than 1.5m), return data

```
{
    "operator": "FrontalFaceSnap",
    "info": {
    "FacePic":"......"
    }
}
```

3.26 capture record query

The snapshot record query is about the stranger snapshot record query, if it is the personnel information of the pass comparison, it is not stored in the capture record; the snapshot record query mainly includes the total number of snapshot records query and the snapshot record information

query.

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	SearchCaptureNum or SearchCapture	SearchCaptureNum:Query the total number of snapshot records according to the conditions SearchCapture: Query snapshot records according to conditions
info	json object		concrete content
DeviceID	int		The ID of the device
BeginTime	char		Search start time, required
EndTime	char		Search end time, required
Ascending	int (optional)	0 ~ 1 (default 0)	Search results in ascending or descending order 0: ascending (results move backward from search start time) 1: Descending (results move forward from search end time)
BeginNO	int (optional)		Return the starting sequence number. If it is not set, it will start from 0 by default
RequestCount	int (optional)	0~100	The maximum number of returned records is

			100. If it is not set, the maximum number of returned records is 15

3.26.1 query of total number of snapshot records

Query the total number of snapshot records according to the time condition.

Operator: **SearchCaptureNum**
URI: **http://<server ipaddr>/action/SearchCaptureNum**

http://192.168.2.10/action/SearchCaptureNum

Issued body

```
{
    "operator": "SearchCaptureNum",
    "info": {
        "DeviceID": 1305433,
        "BeginTime": "2020-01-01T00:00:00",
        "EndTime": "2020-12-13T23:09:00"

    }
}
```

Parameter information returned:

Key	Type	Values	Description
operator	char	SearchCaptureNum	SearchCaptureNum:Query the total number of snapshot records according to the

			conditions
info	json object		concrete content
DeviceID	int		The ID of the device
CaptureNum	int		Returns the total number of snapshot records by time condition

Returned body:

The total number of snapshot records returned according to the condition

```
{
        "operator":  "SearchCaptureNum",
        "info":  {
                "DeviceID":  1305433,
                "CaptureNum":  485
        }
}
```

3.26.2 personnel information query of capture record

Query and query the personnel information of snapshot record according to the conditions.

Key	Type	Values	Description
operator	char	SearchCapture	SearchCapture: Query snapshot records according to conditions
info	json object		concrete content
DeviceID	int		The ID of the device
CaptureNum	int		Returns the total number of snapshot records by time

			condition
Listnum	int (optional)		The number of personnel information of snapshot records returned by condition query
LibSnapID	int (optional)		The snapshot library ID of the returned snapshot record information
CreateTime	Char	YYYY-MM-DDThh:mm:ss	Capture time
Temperature	double	37.20	Real time detection of face temperature, when3.27 temperature parametersOnly when facemask tptmode = 1,4,5 mode is returned (temperature detection machine version support)
TemperatureAlarm	int	0~1	Real time detection of whether the face temperature exceeds the threshold, 0: not exceeded; 1: over (temperature detection machine version support)
SnapPicinfo	Char		Base64 encoding of captured images

Operator: **SearchCapture**

URI: **http://<server ipaddr>/action/SearchCapture**

http://192.168.2.10/action/**SearchCapture**

Issued body

e.g.,

http://<server ipaddr>/action/SearchCapture

Body:

Search by time:

```
{
    "operator": "SearchCapture",
    "info": {
        "DeviceID": 1305433,
        "BeginTime": "2020-01-13T00:00:00",
        "EndTime": "2020-01-13T23:59:59"

    }
}
```

Or

Limit the number of snapshot records returned:

```
{
    "operator": "SearchCapture",
    "info": {
        "DeviceID": 1305433,
        "BeginTime": "2020-01-01T00:00:00",
        "EndTime": "2020-01-13T23:59:59",
        "RequestCount": 10
    }
}
```

Or

Limit the number of snapshot records returned and the starting position:

```
{
    "operator": "SearchCapture",
    "info": {
        "DeviceID": 1305433,
        "BeginTime": "2020-01-01T00:00:00",
        "EndTime": "2020-01-13T23:59:59",
        "BeginNO": 5,
        "RequestCount": 10
    }
```

```
}
```

Returned body:

According to the time conditions, return the capture record personnel information results:


```
{
    "operator": "SearchCapture",
    "info": {
        "DeviceID": 1305433,
        "Listnum": 15,
        "List": [
            {
                "LibSnapID": 3303,
                "CreateTime": "2020-01-13T20:02:43",
                "SnapPicinfo": "......
        },
            {
                "LibSnapID": 3302,
                "CreateTime": "2020-01-13T19:36:06",
                "SnapPicinfo": "......
        },
            {
                "LibSnapID": 3301,
                "CreateTime": "2020-01-13T18:34:15",
                "SnapPicinfo": "......
        },
            ......
            {
                "LibSnapID": 3289,
                "CreateTime": "2020-01-13T16:31:26",
                "SnapPicinfo": "......
        }
        ]
    }
```

```
}
```

Or

The number of snapshot records returned is limited to 10

```
{
    "operator": "SearchCapture",
    "info": {
        "DeviceID": 1305433,
        "Listnum": 10,
        "List": [
            {
                "LibSnapID": 3303,
                "CreateTime": "2020-01-13T20:02:43",
                "SnapPicinfo": "......
        },
            {
                "LibSnapID": 3302,
                "CreateTime": "2020-01-13T19:36:06",
                "SnapPicinfo": "......
        },
            {
                "LibSnapID": 3301,
                "CreateTime": "2020-01-13T18:34:15",
                "SnapPicinfo": "......
        },
            ......
            {
                "LibSnapID": 3294,
                "CreateTime": "2020-01-13T16:31:38",
                "SnapPicinfo": "......
        }
        ]
    }
}
```

Or

Limit the number of returned snapshot records to 10 and start position:


```
{
    "operator": "SearchCapture",
    "info": {
        "DeviceID": 1305433,
        "Listnum": 10,
        "List": [
            {
                "LibSnapID": 3298,
                "CreateTime": "2020-01-13T14:32:38",
                "SnapPicinfo": "......
        },
            {
                "LibSnapID": 3397,
                "CreateTime": "2020-01-13T14:32:36",
                "SnapPicinfo": "......
        },
            {
                "LibSnapID": 3396,
                "CreateTime": "2020-01-13T14:32:34",
                "SnapPicinfo": "......
        },
            ......
            {
                "LibSnapID": 3289,
                "CreateTime": "2020-01-13T16:31:26",
                "SnapPicinfo": "......
        }
        ]
    }
}
```

3.27 temperature parameters

The temperature parameter is mainly related to the temperature operation parameters of the face recognition all-in-one machine which supports the temperature detection.
Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	GetTemperature or SetTemperature	GetTemperature:Get temperature parameters SetTemperature:Setting temperature parameters
info	json object		concrete content
DeviceID	int		The ID of the device
TemperatureMode	int (optional)	0~1	Temperature display mode 0: centigrade temperature 1:fahrenheit
ShowAbnormalTemp	int (optional)	0~1	Display abnormal temperature Do not display 0: 1:display
TemperatureCheck	double (optional)	0.0	Temperature calibration
TemperatureLow	double (optional)	34.00 (default for clause C); 28.00 (default except for clause C)	Low temperature threshold
TemperatureHigh	double	37.3	Temperature alarm threshold (default: 37.3)
EnvTemperature	double (optional)		Ambient temperature (reserved)
EnvTemperatureCheck	double (optional)		Ambient temperature calibration value

			(reserved)
OpenLaser	int (optional)	0~1	Switch on (laser reserved or not)
TempFaceMinW	int (optional)	100~500	The minimum face recognition pixel width of temperature measurement; the lower the temperature measurement distance, the farther the temperature measurement recognition distance is (default 350)
TempFaceMinH	int (optional)	50~1000	The larger the height, the smaller the recognition area

3.27.1 obtaining temperature parameters

Operator: GetTemperature

URI:**http://<server ipaddr>/action/GetTemperature**

e.g.,
http://192.168.2.10/action/GetTemperature

Reply to body

```
{
        "operator":  "GetTemperature",
        "info":  {
                "TemperatureMode":  0,
                "ShowAbnormalTemp":  0,
                "TemperatureCheck":  0.00,
```

```
                "TemperatureLow":  28.00,
                "TemperatureHigh":  37.30,
                "EnvTemperature":  0.00,
                "EnvTemperatureCheck":  0.00,
                "OpenLaser":  0,
                "TempFaceMinW":  350,
                "TempFaceMinH":  560
        }
}
```


3.27.2 setting temperature parameters

Operator: **SetTemperature**

URI:**http://<server ipaddr>/action/SetTemperature**

e.g.,
http://192.168.2.10/action/**SetTemperature**
Issue body


```
{
"operator": "SetTemperature",
"info": {
    "DeviceID": 1305433,
    "TemperatureMode": 0,
    "ShowAbnormalTemp": 0,
    "TemperatureCheck": 0.00,
    "TemperatureLow": 28.00,
    "TemperatureHigh": 37.30,
    "EnvTemperature": 0.00,
    "EnvTemperatureCheck": 0.00,
    "OpenLaser": 0,
    "TempFaceMinW": 350,
    "TempFaceMinH": 560
```

```
 }
}
```

3.28 handshake protocol data

Handshake protocol data is mainly related to the client docking platform, which can write some data content to the face recognition all-in-one machine for saving. Generally, it is the third-party encrypted data content or the third-party authentication data, and the size of the data content cannot exceed 4K bytes.

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	GetHandSharkData or SetHandSharkData	GetHandSharkData:Get handshake protocol data SetHandSharkData:Set handshake protocol data
info	json object		concrete content
DeviceID	int		The ID of the device
HandSharkInfo	char		Data content, no more than 4K bytes

3.28.1 obtaining handshake protocol data

Operator: **GetHandSharkData**

URI:**http://<server ipaddr>/action/GetHandSharkData**

e.g.,

http://192.168.2.10/action/**GetHandSharkData**

Reply body

```
{
    "operator": "GetHandSharkData",
    "info": {
          "HandSharkInfo":"xxxx"
     }
}
```

3.28.2 setting handshake protocol data

Operator: **SetHandSharkData**

URI:**http://<server ipaddr>/action/SetHandSharkData**

e.g.,

http://192.168.2.10/action/SetHandSharkData

Issued body

```
{
    "operator": "SetHandSharkData",
    "info": {
        "DeviceID": "1310001",
        "HandSharkInfo":"xxxx"
     }
}
```

Version 3.29 upgrade

stay3.9 equipment informationThe software version of the current all-in-one face recognition machine can be obtained. Check that the version to be upgraded and the current software version of the all-in-one face recognition machine are in line with the corresponding version. After the upgrade version is successful, the all-in-one face recognition machine will restart automatically.

3.29.1 version upgrade interface 1

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	Upgrade	Upgrade:Version upgrade
info	json object		concrete content
DeviceID	int		The ID of the device
Name	char		Version name
Path	char	For example: https://hq.oss-cn-shenzhen.aliyuncs.com/face/xxx.swx	The download path (HTTP or HTTPS) of the version upgrade file must be ". SWX"

Operator: **Upgrade**

URI:**http://<server ipaddr>/action/Upgrade**

e.g.,

http://192.168.2.10/action/Upgrade

Issued body

```
{
"operator":"Upgrade",
"info":
    {
    "DeviceID":1300001,
    "Name": latest version,
```

```
    "Path":"https://hq.oss-cn-shenzhen.aliyuncs.com/face/xxx.swx"
    }
}
```

3.30 system parameters

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

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator		GetSysCfg/ SetSysCfg	GetSysCfg:Get system parameters SetSysCfg:Setting system parameters
info			concrete content
Language	int (optional)	0~5	Device language, 0: English 1: Simplified Chinese 2: Chinese traditional 3: Portuguese 4: Korean 5: Russian (special version support), 6: Italian, 7: French, 8: Spanish, 9: Japanese; if the device language is changed, the machine will restart
DataBaseEnable	int (optional)	0~1	Record snapshot + record ID card + record authentication (0 No, 1 yes); default: 1, if it is not enabled, snapshot, ID card and authentication image data will not be saved
IDcardType	int (optional)	0~3	ID card reader type, 0:Central control (idm30), Tengyan, Huashi (cvr-100b), Boya; 1:Idr210 was used as the control; 2:Central control (idm30, idm10); 3:Huashi (cvr-100uc)

CardReaderType	int (optional)	reserve	IC card reader type
CardOpenDoorWay	int (optional)	reserve	Card opening mode 0: face + card 1: face or card
FaceDisplay	int (optional)	0 ~ 1, the default is 1	Whether to display face frame 0:No 1:yes
LiveDetectType	int (optional)	0 ~ 2, default 1	In vivo detection mode 0: Live detection is always on, 1: turn it off, 2: turn it on according to the time period
LiveDetectTimeBeg	String (optional)	e.g.,07:00:00	Start time point of live detection every day Required when livedetecttype = 2
LiveDetectTimeEnd	String (optional)	e.g.,19:00:00	The end time of living body test every day Required when livedetecttype = 2
LiveThreshold	Double (optional)	e.g.,90.000000	Live detection threshold (not settable)
LiveFrameNum	int (optional)		The number of consecutive frames in vivo detection, the larger the number of frames, the longer the recognition time (can not be set)
LedLightType	int (optional)	0~5	Enable white light type 0: never 1: time control 2: photosensitive control 3: face sensing 4: face or time 5 face or light perception
LedBrightness	int (optional)		Use when white light is enabled
LedTimeBeg	String (optional)	e.g.,19:00:00	Start time of white light activation every day (white light activation time), which is required when ledlighttype = 1,4
LedTimeEnd	String (optional)	e.g.,07:00:00	The end time of white light activation (turn off white light time) is required when

			ledlighttype = 1,4
LedDisableAfterSec	int (optional)		Turn off the white light (face sensing) after a few seconds. Required when ledlighttype = 3,4,5
LcdBLDisable	int (optional)		Do you want to turn off the screen when there is no one Never, 1: turn off the backlight when no face is detected
LcdBLDisableAfterSec	int (optional)		When lcdbldisable = 1, it is required to close the screen in seconds
ScreenBrightness	int (optional)	Default:50	Screen brightness (reserved)
WebTimeOut	int (optional)	2 ~ 10 default: 5	Web page login timeout (minutes)

3.30.1 obtaining system parameters

Operator: **GetSysCfg**

URI:**http://<server ipaddr>/action/GetSysCfg**

e.g.,

http://192.168.2.10/action/GetSysCfg

Reply to body


```
{
  "operator":  "GetSysCfg",
  "info":  {
      "Language":  1,
      "DataBaseEnable":  1,
      "IDcardType":  0,
      "CardReaderType":  1,
      "CardOpenDoorWay":  0,
      "FaceDisplay":  1,
      "LiveDetectType":  0,
      "LiveDetectTimeBeg":  "07:00:00",
      "LiveDetectTimeEnd":  "19:00:00",
```

```
        "LiveThreshold":  "90.000000",
        "LiveFrameNum":  2,
        "LedLightType":  4,
        "LedTimeBeg":  "19:00:00",
        "LedTimeEnd":  "07:00:00",
        "LedBrightness":  50,
        "LedDisableAfterSec":  30,
        "LcdBLDisable":  1,
        "LcdBLDisableAfterSec":  60,
        "ScreenBrightness":  50,
        "WebTimeOut":  10
    }
}
```


3.30.2 setting system parameters

Operator: SetSysCfg

URI:http://<server ipaddr>/action/SetSysCfg

e.g.,

http://192.168.2.10/action/SetSysCfg

Issue body


```
{
    "operator": "SetSysCfg",
    "info": {
        "LedLightType": 4,
        "LedTimeBeg": "19:00:00",
        "LedTimeEnd": "06:00:00",
        "ScreenBrightness": 50,
        "WebTimeOut": 10
    }
}
```

3.31 mqtt parameters

The mqtt parameters are mainly related to the mqtt service running parameters of the face recognition all-in-one machine. Setting the important parameters of this interface will make the face recognition all-in-one machine and the mqtt server reconnected.

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator		GetMQTTParam/ SetMQTTParam	GetMQTTParam:Get mqtt parameters SetMQTTParam:Setting mqtt parameters
info			concrete content
MQEnable	int (optional)	0~1	Turn mqtt service on / off 0: close 1: Open
MQCloudID	String (optional)		Mqtt gate cloud ID number Recommended native ID (1300001)
MQAddr	String (optional)		Mqtt cloud address
MQPort	int (optional)		Mqtt cloud port
MQUser	String (optional)		Mqtt cloud user name
MQPwd	String (optional)		Mqtt cloud password
MQTopic	String (optional)		Mqtt cloud topic
StrangerUploadType	int (optional)	0~1	Upload the snapshot information of strangers (default: 0) 0: Upload 1: Do not upload
RecordUploadType	int (optional)	0~2	Default information upload (1) 0:Do not upload 1:Identification record upload with captured pictures 2:Upload image without identification
Direction	int	0~2	Import and export direction

	(optional)		of all in one machine 0:Imported 1:exit 2:No direction
QRCode	int (optional)	0~1	Default: QR code scanning result 0: do not upload 1: Upload
ResumefromBreakpoint	int (optional)	0~1	Whether the breakpoint continuous transmission of mqtt stranger snapshot information and identification record is enabled (in the mode of stranger snapshot upload or identification record upload), 0: not enabled, 1: enabled.It does not enable the breakpoint continuous transmission function, only ensures the push data, and does not need the platform (cloud server) to return.7.7. For the details, please refer to the mqtt authentication function, 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.
BeginTime	String (optional)	YYYY-MM-DDThh:mm:ss	The default start time of mqtt breakpoint continuation can be left blank.The default time is to set the time for stranger snapshot upload or identification record upload and enable breakpoint continuous transmission function.When the stranger snapshot and authentication record information push

			before the breakpoint is completed, this time will become the time to complete the breakpoint continuous transmission and push.e.g., 2020-05-25T09:10:00

3.31.1 getting mqtt parameters

Operator: **GetMQTTParam**

URI:**http://<server ipaddr>/action/GetMQTTParam**

e.g.,

http://192.168.2.10/action/GetMQTTParam

Reply to body

```
{
   "operator":  "GetMQTTParam",
   "info":  {
      "MQEnable":  1,
      "MQAddr":  "172.168.2.89",
      "MQPort":  61613,
      "MQUser":  "admin",
        "MQPwd":  "password",
        "MQTopic":  "mqtt/face/1306612",
        "MQCloudID":  "1306612",
        "StrangerUploadType":  1,
        "RecordUploadType":  0,
        "Direction":  0,
        "QRCode":  0,
        "ResumefromBreakpoint":  0,
        "BeginTime":  "2020-05-20T16:34:28"
    }
}
```

3.31.2 setting mqtt parameters

Operator: SetMQTTParam

URI:http://<server ipaddr>/action/SetMQTTParam

e.g.,

http://192.168.2.10/action/SetMQTTParam

Issue body

```
{
    "operator": "SetMQTTParam",
    "info": {
      "StrangerUploadType":  0,
      "RecordUploadType":  1
    }
}
```

3.32 manual push control record

Manual push control record interface is mainly to solve the problem of HTTP server3.12.4 reporting of certification resultsIf the control record reported by the interface is lost, the all-in-one machine will upload the authentication results within the time period to the server by manual setting again.This interface requires3.12 data subscriptionPart of the subscription address and port settings are correct, and authentication result reporting subscription is enabled.This interface is a control record that is forced to be pushed and searched. No matter whether or not the network interruption and continuous transmission mode is adopted, the control record uploaded by this interface does not need the server's reply. At the same time, it should be noted that the data reported by this interface may be saved for multiple times because the same record has been reported to the server before.

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator		ManualPushRecords	ManualPushRecords:Manual push control record
info			concrete content
DeviceID	int		Device ID
TimeS	string	YYYY-MM-DDThh:mm:ss	Start time of control record to be pushed.e.g., 2020-07-29T21:50:05
TimeE	string	YYYY-MM-DDThh:mm:ss	The end time of the control record to be pushed.e.g.,

			2020-07-29T21:50:05
Name	string (optional)		Control record matching exact name (reserved)
RecordNum	int (optional)		Total number of control records matched (return value), 0: no matching data was found

3.32.1 setting manual push control record

Operator: ManualPushRecords

URI:**http://<server ipaddr>/action/**ManualPushRecords

e.g.,

http://192.168.2.10/action/ManualPushRecords

Issue body

```
{
"operator": "ManualPushRecords",
"info": {
"DeviceID":1326491,
"TimeS":"2020-07-28T9:00:00",
"TimeE":"2020-08-07T9:00:00"
}
}
```

Reply to body

```
{
"operator":  "ManualPushRecords",
"code":  200,
"info":  {
      "Result":  "Ok",
      "RecordNum":  "8",
      "Confirm  connection  to  HTTP  server  is  Ok  ?  Find  8  rec
```

```
ords,  try  to  push  now"
}
}
```

3.33 WiFi parameters

WiFi parameters mainly involve the WiFi parameter setting of the device, which needs to be coordinated3.4 network parameterisThe default route in is used. Only the device model and version that supports WiFi models have this parameter.

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	GetNetWiFi or SetNetWiFi	GetNetWiFi: Get WiFi parameters SetNetWiFi: Setting WiFi parameters
info	json object		concrete content
Enable	int (optional)		WiFi enabled 0: not enabled 1: Enable
WorkMode	int	Default: 0	Working mode 0:Sta mode
SecurityMode	int	0~2	safe mode 0: no encryption 1: WPA-PSK/WPA2-PSK 2: WPA/WPA2
SSID	String		SSID (up to 32 bytes)
PassWord	String		Password (up to 128 bytes)
DHCP	int	0~1	DHCP enabled 0: not enabled 1: Enable
IPAddr	char (optional)		Device IP address (maximum 16 bytes),

			required when DHCP = 0
NetMask	char (optional)		Device IP subnet mask (maximum 16 bytes), required when DHCP = 0
GateWay	char (optional)		Device IP gateway (maximum 16 bytes), required when DHCP = 0
DNS1	char (optional)		DNS1
DNS2	char (optional)		DNS2

3.33.1 getting WiFi parameters

Operator: **GetNetWiFi**

URI:**http://<server ipaddr>/action/GetNetWiFi**

e.g.,

http://192.168.2.10/action/**GetNetWiFi**

Reply body


```
{
        "operator":  "GetNetWiFi",
        "info":  {
                "Enable":  1,
                "WorkMode":  0,
                "DHCP":  1,
                "SecurityMode":  1,
                "SSID":  "TP-LINK_4755",
                "PassWord":  "testpassword",
                "IPAddr":  "192.168.1.104",
                "NetMask":  "255.255.255.0",
                "GateWay":  "0.0.0.0",
                "DNS1":  "202.96.134.33",
                "DNS2":  "202.96.134.33"
```

```
        }
}
```

3.33.2 setting WiFi parameters

Operator: **SetNetWiFi**

URI:**http://<server ipaddr>/action/SetNetWiFi**

e.g.,

http://192.168.2.10/action/**SetNetWiFi**

Issued body

```
{
    "operator": "SetNetWiFi",
    "info": {
        "Enable": 1,
        "WorkMode": 0,
        "DHCP": 1,
        "SecurityMode": 1,
        "SSID": "TP-LINK_4755",
        "PassWord": "testpassword",
        "IPAddr": "192.168.1.119",
        "NetMask": "255.255.255.0",
        "GateWay": "192.168.1.0",
        "DNS1": "202.96.134.33",
        "DNS2": "202.96.134.33"
    }
}
```

3.34 face recognition parameters

Face recognition parameters are mainly related to the recognition parameters of face recognition all-in-one machine.The recognition distance (corresponding to the minimum face pixel) can be modified through the interface.The X and Y values of the face detection area represent the starting position of the video picture detection area, and the width and height of the face detection area represent the width and height of the video picture detected based on X

and y.The width and height of face detection need to match the X and Y values of the face detection area. When x > 0, the face detection width should be less than (maximum face detection width - x).Generally, only the recognition distance (corresponding to the minimum pixel of face) needs to be changed, and other parameters do not need to be changed again.

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator	char	GetFaceParam or SetFaceParam	GetFaceParam: Get face recognition parameters SetFaceParam: Setting face recognition parameters
recDistance	Int	30 ~ 200 (unit: cm)	Recognition distance (CM)
faceMinPixel	Int	0~960	Face minimum pixel (obsolete, use recognition distance instead)
detectArea_x	Int	0 ~ 960 (default 0)	Start point of face detection area X (even number)
detectArea_y	Int	0 ~ 1280 (default 0)	Y start point of face detection area (even number)
detectArea_w	Int	0 ~ 960 (default 960)	Face detection area width (even)
detectArea_h	Int	0 ~ 1280 (default 1280)	Face detection area height (even number)

3.34.1 obtaining face recognition parameters

Operator: **GetFaceParam**

URI:**http://<server ipaddr>/action/GetFaceParam**

e.g.,

http://192.168.2.10/action/GetFaceParam

Reply body

```
{
        "operator":  "GetFaceParam",
        "info":  {
                "recDistance":  "200",
                "faceMinPixel":  "122",
                "detectArea_x":  0,
```

```
                "detectArea_y":  0,
                "detectArea_w":  960,
                "detectArea_h":  "1280"
        }
}
```

3.34.2 setting face recognition parameters

Operator: SetFaceParam

URI:**http://<server ipaddr>/action/**SetFaceParam

e.g.,

http://192.168.2.10/action/SetFaceParam

Issued body

```
{
        "operator":  "SetFaceParam",
        "info":  {
                "recDistance":  "100",
                "detectArea_x":  0,
                "detectArea_y":  0,
                "detectArea_w":  960,
                "detectArea_h":  "1280"
        }
}
```

Appendix A:Revision history

date	author	Version number	Change record
2018-03-25	LiangSY	1.0	Draft scheme
2018-04-03	LiangSY	1.1	1. Fix some errors in the document. 2. Amendment3.3 setting user name and passwordKey. 2. Modification3.2.1 obtain the setting parameters of door opening conditionsThe content of the reply. 3. Modification3.2.2 setting door opening condition parameters。 4. Modification3.6 NTP parametersTime zone parameter in. 5. Increase3.9.2 setting device informationItem. 6. Amendment3.2. Door opening conditionsParameter. 7. Amendment3.3 setting user name and password, 3.7 central connection, 3.9 equipment information, 3.10 addition, editing and modification of the list, 3.12 data subscription, the character length setting in. 8. Amendment3.10 addition, editing and modification of the list and3.12.4 reporting of certification resultsThe definition of the generating mode of the Wegener card number in.
2018-04-12	LiangSY	1.2	1. Fix some errors in the document. 2. IncreaseAppendix B:Authentication failure or message reply of setting interface。 3. Modification3.12.3 real time capture and reportand3.12.4 reporting of certification resultsFor example. 4. The key in info should be capitalized uniformly. 5. Modification3.14 subscription heartbeatExamples in

2018-05-04	LiangSY	1.3	1. Modification3.12.4 reporting of certification resultsAdd the report of personid.
2018-05-13	XuLS	1.3	Add the relevant interface of face capture comparison server. 3.15. Access camera parameters 3.16. Face capture comparison server parameters 3. Personnel type parameters 3.18. Face service function
2018-06-21	WangXY	1.3	Add list search query interface 3.19. List search query
2018-06-26	LiangSY	1.4	1. Modify some parameters of relevant interface of face capture comparison server 2. Modify some parameters of the list search query interface 3. Increase3.12.5 query subscribed information 43.20 door opening control
2018-07-05	XuLS	1.5	1. Modification3.2 door opening conditions, add door opening mode 2. Modification3.10.2 list editing and modification、3.11. Deletion of list、3.19.1 single list query、3.19.3 multiple list queriesTo increase the operation mode of libid of equipment database
2018-07-05	ChenCH	1.5	1. Increase Appendix C:Specific functions of packet capture interface
2018-07-09	XuLS	1.6	1. Modify 3.1 sound settings
2018-07-11	WangXY	1.7	1. Modification3.19.1 single list query、3.19.3 multiple list queriesThe UUID field is added to the reply message 2. modify3.10.1 single list addition、3.10.2 list editing and modification、3.11. Deletion of listThe UUID field is added by sending information 3. modify3.12 data subscription, add the value type of topics to control the picture information transmission of subscription

2018-07-16	WangXY	1.7	1. modify3.12 data subscription, add QR code subscription function 2. increase3.12.5 QR code reporting 3. modify3.13 unsubscribe, add QR code unsubscribe function 4. modify3.12.6 query subscribed messages, add the value type of topics, control the picture information transmission and QR code subscription query
2018-07-31	XuLS	1.7	1. modify3.2 door opening conditions, add the open door mode field: opendoorway to control the door opening mode 2. modify3.10 addition, editing and modification of the list, add the channel Authority x field of X channel (face multi-channel server) 3. modify3.12.4 reporting of certification results, add the personnel channel number accesschannel field (for face multi-channel server) 4. modify3.12.3 real time capture and report, add the picturetype field of the captured face image type
2018-11-16	LiangSY	1.8	1. Add relevant parameters of personnel list for access control machine 2. Increase access control 3.21 password operation
2018-11-19	WangXY	1.9	1. modify3.15 access camera parameters, using the form of JSON array instead of the original subscript representation 2. modify3.17 personnel type parameters, using the form of JSON array instead of the original subscript representation 3. increase3.22 control record query

2019-01-21	WangXY	1.10	1. Modification3.12.1 push information does not require authentication、3.12.2 user name and password shall be provided during subscription, and authentication is required for submissionAdd the subscription of swiping card authentication and password authentication for access control machine 2.3.12.6 query the subscribed information and modify it to3.12.7 query subscribed informationAnd add the access control card authentication and password cancel authentication subscription 3. Increase3.12.6 report of IC card number certification results (access control)and3.12.7 report of password authentication results (access control machine)
2019-03-8	LaiWS	1.11	1. Use optional to indicate which fields are optional. If optional is not indicated in the distribution information, it is required 2. The type of info field is changed from char to JSON object, and other non-standard types are corrected. The length of some string types is explained below 3. increase3.23.1 obtaining common setting parametersand3.23.2 setting common parameters 4. modify3.15 access camera parametersChange the coninfo field of the body issued in and reply to the IPC field in the body_Info is consistent,3.17 types of personnelThe coninfo field of the issued body is changed to be consistent with the field worktypeinfo in the reply body
2019-04-03	LaiWS	1.12	1. Increase3.10.2 addition of multiple lists
2019-09-10	LaiWS	1.13	1. Increase3.24 restart the device

2019-09-26	CaiFF	1.14	1. Modify 3.12.3 real time snapshot push to3.12.3 strangers snapshot Report 2. Modify 3.18.2 picture comparison similarity by3.25.1 picture comparison similarity 3. Modify 3.18.4 to search local face database as3.25.2 search local face database by graph 4. Modify 3.18.3 feature code comparison similarity to3.18.2 feature code comparison similarity 5. Modify 3.18.5 to obtain face image as3.18.3 obtaining face images 6. Increase3.25.3 face detection
2019-10-22	CaiFF	1.15	1、3.10.1 single list addition 3.2 add more than 10 listsAdd image verification field 2、3.10.1 single list addition 3.10.3 list editing and modification Return message to prompt modification 3、3.19 list search queryAdd field description of effective times of temporary list 3
2019-11-05	LaiWS	1.16	1、3.12.6 reporting of ID card informationAdd ID card
2019-11-05	CaiFF	1.16	1、3.12 data subscriptionAdd breakpoint continuous transmission function 2、3.12.1 push information does not require authentication 3.12.2 user name and password shall be provided during subscription, and authentication is required for submissionAdd breakpoint resume keyword 3、3.12.3 strangers snapshot Report 3.12.4 reporting of certification resultsAdd sendintime to push keywords in time 4、3.12.9 query subscribed informationAdd breakpoint resume and breakpoint resume time keyword return
2019-11-19	LiangSY	1.17	1. 3.12 data subscriptionIncrease the heartbeat interval setting for the subscription

2019-11-29	CaiFF	1.18	1. 3.10 addition, editing and modification of the listThe distribution list image supports URI and is compatible with Base64 encoding , and adding a URI to get an image example
2019-12-04	Chench	1.19	1、2.4 identity authenticationAdd postman authentication screenshot. 2. 3.20 door opening controlStatus controls whether to open the door or not; adds MSG field to prompt information; (compatible with previous door opening methods) 3. Modification and updateAppendix C:Specific functions of packet capture interfaceScreenshot.
2019-12-13	CaiFF	1.20	1. Modify 3.11 and delete the list as 3.11.1 deletion of single or multiple lists 2. increase 3.11.2 deletion of all personnel list
2019-12-25	CaiFF	1.21	1. Modification 3.1 sound settings, add field 2. Modification 3.2 door opening conditions, add field 3. Modification 3.11.2 all personnel list deletion interface 4. Modification3.12 data subscription, add field 5.3.10 addition, editing and modification of the list, add different card number processing methods, and modify the example
2019-12-28	CaiFF	1.21	1. Increase3.10.5 Wigan access card number and built-in swipe ID card number
2020-01-03	CaiFF	1.21	1. Modification2.4 identity authenticationexplain
2020-01-13	CaiFF	1.22	1. Increase3.22.1 total number of control records query 2. Increase3.26 capture record query
2020-01-16	CaiFF	1.22	1. 3.22 control record queryAdd hhtp remote door opening control record query return

2020-02-18	CaiFF	1.22	1.3.22.2 control record personnel information queryand3.12.4 reporting of certification resultsAdd validation type 2. modify3.11.1 deletion of single or multiple listsDescription of totalnum field
2020-02-29	CaiFF	1.22	1.3.12.3 strangers snapshot ReportAdd fields such as temperature report 2.3.12.4 reporting of certification resultsAdd fields such as temperature report 3. Increase3.27 temperature parameters
2020-03-03	CaiFF	1.23	1. Modification3.27 temperature parametersMask temperature detection mode
2020-03-07	CaiFF	1.24	1. Increase3.27 temperature parametersDistance field 2.3.22.2 control record personnel information queryAdd fields such as temperature 3.3.26.2 personnel information query of capture recordAdd fields such as temperature

2020-03-21	CaiFF	1.25	1. 3.22.2 control record personnel information queryModify validation type description 2. 3.12.4 reporting of certification resultsModify validation type description 3. 3.2 door opening conditionsModify verification type description 4 3.27 temperature parametersCancel facemask tptmode setting 5. IncreaseC. 12.4.1 reply the data packet with the server of network interruption and continuous transmission
2020-05-07	CaiFF	1.26	1. Increase3.28 handshake protocol data
2020-05-08	CaiFF	1.27	1. increaseVersion 3.29 upgrade 2. 3.22 control record queryand3.26 capture record queryIncrease ascending / descending results return
2020-05-14	CaiFF	1.27	1. modify3.10.5 Wigan access card number and built-in swipe ID card number 2. increase3.30 system parameters Add RFID card mode to card 3
2020-05-25	CaiFF	1.27	1. Increase3.31 mqtt parameters
2020-05-28	CaiFF	1.28	1. Increase3.2.3 introduction of door opening mode
2020-06-09	CaiFF	1.28	1. IncreaseC. 10.1.1 add error code to single list
2020-07-27	CaiFF	1.29	1. modify3.1 sound settings, add the comparison success display field 2. modify3.2 door opening conditionsTo increase the verification reset time 3. modify3.27 temperature parameters 4. modify3.23 common configuration settings, increase the direction of entrance and exit 5. modify3.4 network parametersAdd DHCP
2020-07-29	CaiFF	1.30	1. Increase3.32 manual push control record
2020-09-26	CaiFF	1.31	1. Modification3.19.2 total number of query lists, increase the maximum number of lists supported by the device
2020-10-21	CaiFF	1.31	1. Modification3.4 network parameters 2. Add appendix D D. 1 nationAnd modify the definition of nationality in the document 3. Modification3.12.4 reporting of certification results, add push type

2020-11-05	CaiFF	1.32	1. Modification 3.1 sound settings, add field 2. Modification 3.2 door opening conditions, add field 3. IncreaseFace recognition parameters
2020-11-25	CaiFF	1.33	1. Increase3.25.4 capture panorama
2020-12-05	CaiFF	1.33	1. Modification3.25.4 capture panoramaby3.25.4 manual capture

Appendix B:Authentication failure or message reply of setting interface

B. 1 authentication failed

```
{
    "operator": "authentication",
    "info":{
    "Result": "Fail",
    "Detail": "Unsupport authentication protocol type"
    }
}

Or

{
    "operator": "authentication",
    "info":{
    "Result": "Fail",
    "Detail": "Unknown user or password"
    }
}
```

B. 2 set message reply

Set successfully:

```
{
    "operator": "<Operator>",
    "code": 200,
    "info":{
    "Result": "Ok"
```

```
    }
}
```

Setting failed:

```
{
    "operator": "<Operator>",
    "info":{
    "Result": "Fail",
    "Detail": "<detial>"
    }
}
```

Appendix C:Specific functions of packet capture interface

C. 1 sound settings

C. 1.1 get audio setting parameters

```
POST /action/GetSound HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 0
Authorization: Basic YWRtaW46YWRtaW4=
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Postman-Token: cf11e027-a704-098c-5968-5715cd8b4aab
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 17:42:54 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

b0
{"operator":"GetSound", "info":{"VerifySuccAudio":1, "VerifyFailAudio":1, "RemoteCtrlAudio":1,
"Volume":90, "VerifySuccGuiTip":1, "VerifyFailGuiTip":1, "UnregisteredGuiTip":1}}
0
```

C. 1.2 setting audio parameters

```
POST /action/SetSound HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 194
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/69.0.3497.81 Safari/537.36
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: text/plain;charset=UTF-8
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: 8c47997c-3444-47e5-6c08-622a496f7fa4
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
"operator": "SetSound",
"info":
{
"VerifySuccAudio":1,
"VerifyFailAudio":1,
"RemoteCtrlAudio":1,
"Volume":50,
"VerifySuccGuiTip":1,
"VerifyFailGuiTip":1,
"UnregisteredGuiTip":1
}
}HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 17:46:48 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

4a
{
"operator": "SetSound",
"code":200,
"info": {
"Result": "Ok"
}
}
```

C. 1.3 get the number and file name of playing files

```
POST /action/GetAudio HTTP/1.1
Host: 172.168.2.236
Connection: keep-alive
Content-Length: 0
Authorization: Basic YWRtaW46YWRtaW4=
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Postman-Token: 7a7f683e-d078-7e42-c8cc-2d5f6078b805
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 09:45:39 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

14e
{"operator":"GetAudio", "info":{"AudioNum":16,"AudioName":
["welcome_pt.wav","verifyfail.wav","welcome_en.wav","BrushIDcard.wav","VerifyFail.wav","sorry_en
.wav","verifyfail_pt.wav","welcome.wav","sorry.wav","VerifySuccess.wav","unrecorded.wav","SwipeC
ard.wav","FaceCollection.wav","FailVerify.wav","sorry_pt.wav","verifysucc_pt.wav"]}}
0
```

C. 1.4 play specified file sound

```
POST /action/SetAudio HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 107
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: e4e5f46d-4db2-2359-4e3d-7099e74d20ce
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/69.0.3497.81 Safari/537.36
Content-Type: application/json
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
"operator": "SetAudio",
"info": {
"DeviceID":1305138,
"AudioType":0,
"AudioName":"welcome.wav"
}
}HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 11:25:41 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

4a
{
"operator": "SetAudio",
"code":200,
"info": {
"Result": "Ok"
}
}

0
```

C. 2 door opening conditions

C. 2.1 setting of door opening conditions

```
POST /action/GetDoorCondition HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 0
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: fa98bd57-da5e-e644-0724-b83142fbdc1b
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Content-Type: application/json
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 17:48:16 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

e3
{"operator": "GetDoorCondition","info": {"FaceThreshold": 90,"IDCardThreshold":
50,"OpendoorWay": 1,"VerifyMode": 2,"ControlType": 0,"Wiegand": 4,"PublicMjCardNo":
1,"AutoMjCardBgnNo": 1,"AutoMjCardEndNo": 1,"IOStayTime": 200}}
0
```

0r

```
POST /action/GetDoorCondition HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 0
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: e9a04c72-c7b7-1e95-1f44-c892691612b0
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Content-Type: application/json
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 17:48:57 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

a4
{"operator": "GetDoorCondition","info": {"FaceThreshold": 90,"IDCardThreshold":
50,"OpendoorWay": 1,"VerifyMode": 1,"ControlType": 1,"IOType": 1,"IOStayTime": 200}}
0
```

C. 2.2 setting door opening condition parameters

```
POST /action/SetDoorCondition HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 253
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/69.0.3497.81 Safari/537.36
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: text/plain;charset=UTF-8
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: 72c8b84a-3525-52dd-38b2-4f6bf6052b95
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
"operator": "SetDoorCondition",
"info": {
"FaceThreshold": 90,
"IDCardThreshold": 50,
"OpendoorWay": 0,
"VerifyMode": 1,
"ControlType": 0,
"Wiegand": 0,
"PublicMjCardNo": 2,
"AutoMjCardBgnNo": 2,
"AutoMjCardEndNo": 4,
"IOStayTime": 5
}
}HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 17:50:04 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

52
{
"operator": "SetDoorCondition",
"code":200,
"info": {
"Result": "Ok"
}
}
```

C. 3. Set user name and password

```
POST /action/SetUserPwd HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 79
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: text/plain;charset=UTF-8
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: 92acea54-ebd7-80b9-88f1-afebb3ed5b04
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
"operator": "SetUserPwd",
"info": {
"User": "admin",
"Pwd": "admin"
}
}HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 17:51:05 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

4c
{
"operator": "SetUserPwd",
"code":200,
"info": {
"Result": "Ok"
}
}
```

C. 4 network parameters

C. Obtaining network parameters

```
POST /action/GetNetParam HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 0
Authorization: Basic YWRtaW46YWRtaW4=
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Postman-Token: 2ab80ddf-9a79-950b-3611-d4e5e28e47c4
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 17:51:41 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

94
{"operator": "GetNetParam","info": {"IPAddr": "172.168.2.238","Submask":
"255.255.255.0","Gateway": "172.168.2.1","ListenPort": 6666,"WebPort": 80}}
0
```

C. 4.2 setting network parameters

```
POST /action/SetNetParam HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 166
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: text/plain;charset=UTF-8
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: 3b74578f-2758-ee20-a481-42044358d91a
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
"operator": "SetNetParam",
"info": {
"IPAddr": "172.168.2.238",
"Submask": "255.255.255.0",
"Gateway": "172.168.2.1",
"ListenPort": 5000,
"WebPort": 80
}
}HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 17:52:26 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

4d
{
"operator": "SetNetParam",
"code":200,
"info": {
"Result": "Ok"
}
}
```

C. 5 time parameters

C. 5.1 obtaining system time

```
POST /action/GetSysTime HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 0
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: 5335b56d-395f-067a-890c-1d9a432f38a0
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Content-Type: application/json
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 17:53:04 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

6a
{"operator": "GetSysTime","info": {"Year": 2019,"Month": 12,"Day": 4,"Hour": 17,"Minute":
53,"Second": 4}}
0
```

C. 5.2 setting system time

```
POST /action/SetSysTime HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 127
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: text/plain;charset=UTF-8
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: eec924b1-6854-85b1-2e75-bc2ef1df1acc
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
"operator": "SetSysTime",
"info": {
"Year": 2018,
"Month": 10,
"Day": 11,
"Hour": 16,
"Minute": 10,
"Second": 22
} }HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Thu Oct 11 16:10:22 2018
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

4c
{
"operator": "SetSysTime",
"code":200,
"info": {
"Result": "Ok"
}
}
```

C. 6 NTP parameters

C. 6.1 obtaining NTP parameters

```
POST /action/GetSysNTP HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 0
Authorization: Basic YWRtaW46YWRtaW4=
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/69.0.3497.81 Safari/537.36
Postman-Token: 97e1c9c7-9e89-eb93-9f44-f70698b7d3b4
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 17:54:14 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

7d
{"operator": "GetSysNTP","info": {"NtpEnable": 1,"NtpUrl": "172.168.2.65","NtpPort":
123,"NtpTimeZone": 25,"NtpInterval": 0}}
0
```

C. 6.2 setting NTP parameters

```
POST /action/SetSysNTP HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 147
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: text/plain;charset=UTF-8
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: d9affbfb-c944-f92e-8607-900cff9b44b7
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
"operator": "SetSysNTP",
"info": {
"NtpEnable": 0,
"NtpUrl": "time.windows.com",
"NtpPort": 123,
"NtpTimeZone": 14,
"NtpInterval": 1
}
}HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 17:54:49 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

4b
{
"operator": "SetSysNTP",
"code":200,
"info": {
"Result": "Ok"
}
}
```

C. 7 center connection

C. 7.1 obtaining central connection parameters

```
POST /action/GetCenter HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 0
Authorization: Basic YWRtaW46YWRtaW4=
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Postman-Token: 0187f90e-cab6-29b6-3e93-3b6ef6f7d96d
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 17:55:18 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

b9
{"operator": "GetCenter","info": {"ConnectCenter": 0,"CenterUrl": "192.168.2.11","CenterPort":
6666,"CenterUser": "admin","CenterPwd": "admin","SendSnapImage": 0,"SendVerifyResult": 0}}
0
```

C. 7.2 setting central connection parameters

```
POST /action/SetCenter HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 207
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/69.0.3497.81 Safari/537.36
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: text/plain;charset=UTF-8
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: 84e17a5d-5b84-bc41-10f5-4d86bdad31a8
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
"operator": "SetCenter",
"info": {
"ConnectCenter": 1,
"CenterUrl": "192.168.2.10",
"CenterPort": 6666,
"CenterUser": "admin",
"CenterPwd": "admin",
"SendSnapImage": 1,
"SendVerifyResult": 1
}
}HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 17:55:43 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

4b
{
"operator": "SetCenter",
"code":200,
"info": {
"Result": "Ok"
}
}
```

C. 8 restore factory

```
POST /action/SetFactoryDefault HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 342
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: 790d2326-5d7d-1d7a-3c88-daed0183e142
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/69.0.3497.81
Safari/537.36
Content-Type: application/json
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
"operator": "SetFactoryDefault",
"info": {
"DefaltDoorSet": 1,
"DefaltSoundSet": 0,
"DefaltNetPar": 0,
"DefaltCenterPar": 0,
"DefaltCapture": 0,
"DefaltLog": 0,
"DefaltPerson": 0,
"DefaltRecord": 0,
"DefaltMaintainTime": 0,
"DefaltSystemSettings": 0,
"DefaltEnterIPC": 0,
"DefaltServerBasicPara": 0,
"DefaltWorktype": 0
}
}HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 17:57:05 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

53
{
"operator": "SetFactoryDefault",
"code":200,
"info": {
"Result": "Ok"
```

分组 75. 1 客户端 分组. 1 服务器 分组. 1 turn(s). 点击选择.

C. 9 setting information

C. 9.1 obtaining equipment information

```
POST /action/GetSysParam HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 0
Authorization: Basic YWRtaW46YWRtaW4=
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Postman-Token: b5dbbd2f-8a72-863d-b596-7b7ce059fb78
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 17:58:10 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

6a
{"operator": "GetSysParam","info": {"Name": "8866","DeviceID": 1305138,"Version":
"v14.7.6L6.S2-1.0.6.9"}}
0
```

C. 9.2 setting device information

```
POST /action/SetSysParam HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 71
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: text/plain;charset=UTF-8
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: 10e6a947-455f-6df9-764e-df8910d1a301
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
"operator": "SetSysParam",
"info": {
"Name": "facegate_test"
}
}HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 17:58:36 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

4d
{
"operator": "SetSysParam",
"code":200,
"info": {
"Result": "Ok"
}
}
```

C. 10 addition, editing and modification of the list

C. 10.1 single list addition

```
POST /action/AddPerson HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 77281
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: cf37eff6-e05c-a46f-e2f1-d8ae94ab0784
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Content-Type: application/json
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
"operator": "AddPerson",
"info": {
"DeviceID":1305138,
"PersonType": 0,
"Name":".........",
"Gender":0,
"Nation":0,
"CardType":0,
"IdCard":"430923199011044411",
"Birthday":"1990-11-04",
"Telnum":"18888888888",
"Native":"......",
"Address":"............",
"Notes":"......",
"MjCardFrom": 0,
"MjCardNo": 1234,
"Tempvalid": 0,
"CustomizeID": 123456
},
"picinfo":"
v7+/v7+/v7+/v7+/v7+/v7+/v7+/v7+/v7+/f/8/v3//v7+//7///39/Pz///v+//z+opCTrZ6ZtKSdm4+T59rpt7G/
```

……

```
9gWU5fWk5jWk5hY1RqYVVnaV9va11ycWh3hnqHnZaf5ubm7Ovq/Pn6npqg//////7+/v7+/
v7+ytW0ytqxyde1ydu0y9y3zNq3zdy2yti0zty6zty6zNm40N29zNy4ztq40ty4zNu40ty6ytq4zt29y9u8yNq1yNi3ydm5ydW2
0N2+yta9y9e7yNK8ws25wtC4ztXIlqKWrLism6GWhYOLpKOvenCBZGBzUFBqU1FnS0paOzlXQz5bQDtYPz1aPT9ePjtbQj9mQUN
lTVF0UE9xT1N5UVZ9WWKIU1+IXWSVWmmYWWaQXGqaW2iWWWaXV2eTWWyZWWyXW2yUW2+TWnCTUGKHUmOKUWWKTmeMTGCGVGiOTF
6DVGWGU1uDUFZ6SEtxQkRmRkVlTUdmREBdTEdiQD5UQUNbRkNdSklhSkJcREFXSkReSkRcTUZfTkVdTUdgUEheVExiUEpcU01gU
U5eUktcWVBkV1FhW1NkYlZqYVBkZFhsXlJma19sa19wdmx4enV+4d7j5OTe6ujm9/P4mZmf/v3+/v/9/v7+/v7+"
}HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 17:59:47 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

4b
{
"operator": "AddPerson",
"code":200,
"info": {
"Result": "Ok"
}
}
```

C. 10.1.1 add error code to single list

errcode	Type	Values	Description
461	int	Unknown operation instruction	Unknow operator
462	int	Info (missing parameter)	Parameter error
463	int	Deviceid mismatch	Unkonw DeviceID
464	int	No picinfo or picuri was passed in	Unkonw picinfo and get picURI error
465	int		Other
466	int	Customizeid or UUID already exists	CustomizeID or UUID had existed
467	int		reserve
468	int		reserve
469	int	The wegenka already exists	WG_CardNo already exist
470	int	ID (rfcard) card number already exists; (for built-in swipe card model)	ID_CardNo already exist
471	int	Personnel list already exists	Person already exist
472	int		reserve
473	int	No face detected	Face Undetected
474	int	Failed to decode Base64 image	picinfo Base64 decode error
475	int	Error resolving URI server address	Get URI server ip error
476	int	Failed to connect to server IP when adding image as URL mode	Get picinfo and connect URI IP error
477	int	Getting URL image data is too short	Get URI pic data too short
478	int	Error getting wgfacility code	Get WGFacilityCode error
479	int	Error getting mjcardno	Get MjCardNo error

C. 10.2 multiple lists added

```
POST /action/AddPersons HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 126027
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: e8080aa8-f5df-954c-0749-e9dd7e254d74
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/69.0.3497.81 Safari/537.36
Content-Type: application/json
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
"operator":"AddPersons",
"DeviceID":1305138,
"Total":2,
"Personinfo_0":{
"PersonType":0,
"Name":"test",
"Gender":0,
"Nation":0,
"CardType":0,
"IdCard":"430923199011044411",
"Birthday":"1990-11-04",
"Telnum":"18888888888",
```

……

```
wBcJf8A0VXyBf8A/I/T/wDA/wD2zrbCfovyifwp9OCMf+IX1vdX8fDO9lvzy128397PclYiONvvEoc7ueo/
yR6HB61Xn6Rj+50/H/DsBgD04GJv+WEX/XOoZa9Xp84/of4lvb5L9CjNKwkgjHAkHPrx6dRz34PqMHmpVXakwH8DcH
+L5ZAuM+/8XcnBBGBirP8A8fNn/ut/Krn/AD9f75/9HCir
+i06CX6fqdBpthDeQ3MbtLGMQv8AuZNrfOu5k3fMdp6cEMByrBvmr6y/Y18d+PvgXd/En4hfBvxz4o+G/
wCOPhfBvxz4o+G/wCOPhfBvxz4o+G/wCOPhfBvxz4o+G/wCOPhfBvxz4o+G/wCOPhfBvxz4o+G/wCOPh
```

C. 10.3 list editing and modification

```
POST /action/EditPerson HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 77300
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: 3ca13955-c832-247e-4dd9-a2f4f59316b8
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Content-Type: application/json
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
"operator": "EditPerson",
"info": {
"DeviceID":1305138,
"IdType":0,
"CustomizeID": 123456,
"PersonType": 1,
"Name":".........-edit",
"Gender":1,
"Nation":0,
"CardType":0,
"IdCard":"430923199011044411",
"Birthday":"1990-09-10",
"Telnum":"18888888888",
"Native":"......",
"Address":".............",
"Notes":"......",
"MjCardFrom": 1,
"MjCardNo": 1234,
"Tempvalid": 0
},
"picinfo":"
```

……

```
lTVF0UE9xT1N5UVZ9WWKIU1+IXWSVWmmYWWaQXGqaW2iWWWaXV2eTWWyZWWyXW2yUW2+TWnCTUGKHUmOKUWWKTmeMTGCGVGiOTF
6DVGWGU1uDUFZ6SEtxQkRmRkV1TUdmREBdTEdiQD5UQUNbRkNdSklhSkJcREFXSkReSkRcTUZfTkVdTUdgUEheVExiUEpcU01gU
U5eUktcWVBkV1FhW1NkY1ZqYVBkZFhsXlJma19sa19wdmx4enV+4d7j5OTe6ujm9/P4mZmf/v3+/v/9/v7+/v7+"
}HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 18:01:19 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

4c
{
"operator": "EditPerson",
"code":200,
"info": {
"Result": "Ok"
}
}
```

C. 10.4 getting the old and new database versions

```
POST /action/GetDatabaseVer HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 0
Authorization: Basic YWRtaW46YWRtaW4=
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Postman-Token: 85bb0fa1-cbd0-7cee-1698-4e9b50e5b969
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 11:35:13 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

3b
{"operator":"GetDatabaseVer", "info":{"DatabaseVersion":1}}
0
```

C. 11 list deleted

```
POST /action/DeletePerson HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 120
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: text/plain;charset=UTF-8
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: f5be909a-2dbf-dc98-2b6d-ff415cfc78d3
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
"operator": "DeletePerson",
"info": {
"DeviceID": 1305138,
"TotalNum": 1,
"IdType": 0,
"CustomizeID":[123453]
}HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 18:02:25 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

4e
{
"operator": "DeletePerson",
"code":200,
"info": {
"Result": "Ok"
}
}
```

C. 12 data subscription

C. 12.1 push messages do not require authentication

```
POST /action/Subscribe HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 318
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: text/plain;charset=UTF-8
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: 13af34ce-2aaa-ba07-ec76-5d147a1ce4e3
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
"operator": "Subscribe",
"info": {
"DeviceID": 1305138,
"Num": 2,
"Topics":["Snap", "Verify"],
"SubscribeAddr":"http://192.168.2.11:8080",
"SubscribeUrl":{"Snap":"/Subscribe/Snap",
"Verify":"/Subscribe/Verify", "HeartBeat":"/Subscribe/heartbeat"},
"Auth":"none",
" bTimedPush ":0,
" PushInterval ":0
}
}HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 18:03:21 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

4b
{
"operator": "Subscribe",
"code":200,
"info": {
"Result": "Ok"
}
}
```

C. 12.2 user name and password shall be provided during subscription, and authentication is required for submission

```
POST /action/Subscribe HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 314
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: text/plain;charset=UTF-8
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: a0112839-2e0c-e9f5-4cc9-d83e95a25085
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
"operator": "Subscribe",
"info": {
"DeviceID": 1305138,
"Num": 2,
"Topics":["Snap", "Verify"],
"SubscribeAddr":"http://172.168.2.65:8021",
"SubscribeUrl":{"Snap":"/Subscribe/Snap",
"Verify":"/Subscribe/Verify", "HeartBeat":"/Subscribe/heartbeat"},
"Auth":"Basic",
"User": "admin",
"Pwd": "amdin"
}
}HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 18:03:28 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

4b
{
"operator": "Subscribe",
"code":200,
"info": {
"Result": "Ok"
}
}
```

C. 3.12 report to strangers

```
POST /Subscribe/Verify HTTP/1.1
Accept: application/json
Content-Type: application/json; charset=UTF-8
Content-Length: 11762
Accept-Encoding: gzip, deflate
User-Agent: FaceGate-HttpClient/0.0.1
Host:172.168.2.65
Connection: Keep-Alive

{
"operator": "VerifyPush",
"info": {
"DeviceID":1305138,
"PersonID":58,
"CreateTime":"2019-12-04T18:08:05",
"Similarity1": 95.097183,
"Similarity2": 0.000000,
"VerifyStatus":1,
"VerfyType":1,
"PersonType": 0,
"Name":".........",
"Gender":0,
"Nation":1,
"CardType":0,
"IdCard":" ",
"Birthday":"1970-01-01",
"Telnum":" ",
"Native":" ",
"Address":" ",
"Notes":" ",
"MjCardFrom": 0,
"MjCardNo": 1,
"Tempvalid": 0,
"CustomizeID": 0,
"PersonUUID": " ",
"ValidBegin":"0000-00-00T00:00:00",
"ValidEnd":"0000-00-00T00:00:00",
"RFIDCard":"",
"Sendintime":1
},
"RegisteredPic": "
2wBDAAIBAQIBAQICAgICAgICAwUDAwMDAwYEBAMFBwYHBwcGBwcICQsJCAgKCAcHCg0KCgsMDAwMBwkODw0MDgsMDAz/
```

……

```
ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usl
Gx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/
8QAtREAAgECBAQDBAcFBAQHTTP/1.1 200 OK
Content-Type: application/json
Date: Wed, 04 Dec 2019 10:08:05 GMT
Connection: keep-alive
Transfer-Encoding: chunked

18
{"code":200,"desc":"OK"}
0
```

C. 12.4 reporting of certification results

```
POST /Subscribe/Verify HTTP/1.1
Accept: application/json
Content-Type: application/json; charset=UTF-8
Content-Length: 11762
Accept-Encoding: gzip, deflate
User-Agent: FaceGate-HttpClient/0.0.1
Host:172.168.2.65
Connection: Keep-Alive

{
"operator": "VerifyPush",
"info": {
"DeviceID":1305138,
"PersonID":58,
"CreateTime":"2019-12-04T18:06:56",
"Similarity1": 95.719673,
"Similarity2": 0.000000,
"VerifyStatus":1,
"VerfyType":1,
"PersonType": 0,
"Name":".........",
"Gender":0,
"Nation":1,
"CardType":0,
"IdCard":" ",
"Birthday":"1970-01-01",
"Telnum":" ",
"Native":" ",
"Address":" ",
"Notes":" ",
"MjCardFrom": 0,
"MjCardNo": 1,
"Tempvalid": 0,
"CustomizeID": 0,
"PersonUUID": " ",
"ValidBegin":"0000-00-00T00:00:00",
"ValidEnd":"0000-00-00T00:00:00",
"RFIDCard":"",
"Sendintime":1
```

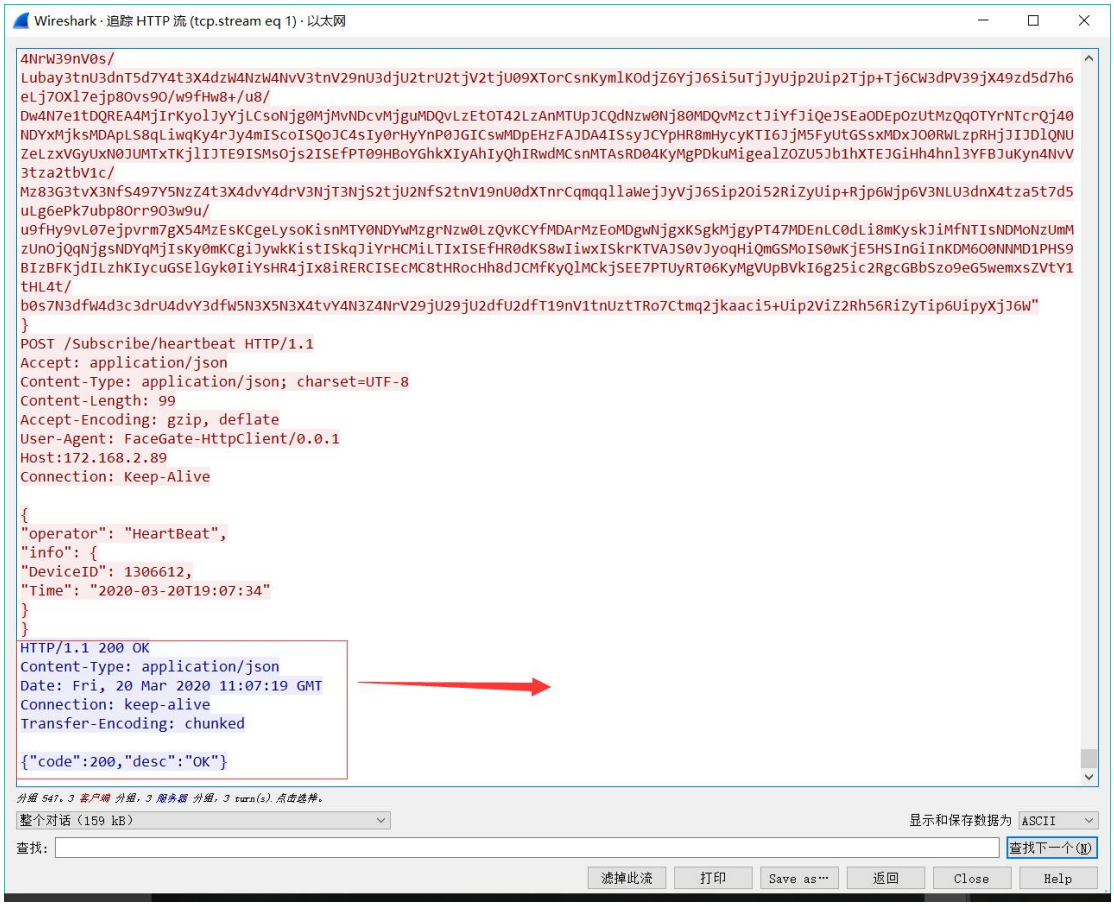
……

```
ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKT1JWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMX
Gx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQAAAAAAAAECAwQFBgcICQoL/
8QAtREAAgECBAQDBAcFBAQHTTP/1.1 200 OK
Content-Type: application/json
Date: Wed, 04 Dec 2019 10:08:05 GMT
Connection: keep-alive
Transfer-Encoding: chunked

18
{"code":200,"desc":"OK"}
0
```

C. 12.4.1 reply the data packet with the server of network interruption and continuous transmission

Note that the HTTP header contains content length, which is case sensitive.



C. 12.5 reporting of ID card information

```
POST /Subscribe/IDCard HTTP/1.1
Accept: application/json
Content-Type: application/json; charset=UTF-8
Content-Length: 64998
Accept-Encoding: gzip, deflate
User-Agent: FaceGate-HttpClient/0.0.1
Host:172.168.2.65
Connection: Keep-Alive

{
"operator": "IDCardInfoPush",
"info": {
"DeviceID": 1305138,
"IDCard_Idno": "450521199209100568",
"IDCard_Name": ".........",
"IDCard_Gender": 1,
"IDCard_Nation": 1,
"IDCard_Birthday":"1992-09-10",
"IDCard_Address": ".....................................................21...",
"IDCard_Idissue": "...................",
"IDCard_Idperiod": "20180427-20280427"
},
"IDCard_photo": "
```

C. 13 unsubscribe

```
POST /action/Unsubscribe HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 108
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: text/plain;charset=UTF-8
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: 1c43c194-5a70-0224-ee22-5aa4d4827ec0
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
"operator": "Unsubscribe",
"info": {
"DeviceID": 1305138,
"Num": 2,
"Topics":["Snap", "Verify"]
}
}HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Thu Dec  5 09:04:39 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

4d
{
"operator": "Unsubscribe",
"code":200,
"info": {
"Result": "Ok"
}
}
```

C. 14 subscription heartbeat

```
POST /Subscribe/heartbeat HTTP/1.1
Accept: application/json
Content-Type: application/json; charset=UTF-8
Content-Length: 99
Accept-Encoding: gzip, deflate
User-Agent: FaceGate-HttpClient/0.0.1
Host:172.168.2.65
Connection: Keep-Alive

{
"operator": "HeartBeat",
"info": {
"DeviceID": 1305138,
"Time": "2019-12-04T18:09:54"
}
}
HTTP/1.1 200 OK
Content-Type: application/json
Date: Wed, 04 Dec 2019 10:09:54 GMT
Connection: keep-alive
Transfer-Encoding: chunked

18
{"code":200,"desc":"OK"}
0
```

C. 19 search list

C. 19.1 single list query

```
POST /action/SearchPerson HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 120
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: 5b97748b-e150-ed7a-cef4-148cf813c7c7
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Content-Type: application/json
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
"operator": "SearchPerson",
"info": {
"DeviceID":1305138,
"SearchType":0,
"SearchID":"123456",
"Picture":1
}
}HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 18:11:14 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

3fdf
{
"operator": "SearchPerson",
"info": {
"DeviceID": 1305138,
"LibID": 106,
"PersonType": 1,
"Name": ".........-edit",
"Gender": 1,
"Nation": 0,
"CardType": 0,
"IdCard": "430923199011044411",
"Birthday":"1990-09-10",
"Telnum": "18888888888",
"Native": "      "
```

C. 19.2 total number of query lists

```
POST /action/SearchPersonNum HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 231
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: 4dbbc6b2-902e-bc28-f796-3dbc6a1d8b85
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Content-Type: application/json
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
"operator": "SearchPersonNum",
"info": {
"DeviceID": 1305138,
"SearchType":0,
"PersonType":0,
"BeginTime":"2019-06-01T00:00:00",
"EndTime":"2019-12-19T23:59:59",
"Gender":2,
"Age":"0-100",
"MjCardNo":0,
"Name":""
}
}HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 18:12:32 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

5b
{
"operator": "SearchPersonNum",
"info": {
"DeviceID": 1305138,
"PersonNum": 53
}
}
```

C. 19.3 multiple list queries

```
POST /action/SearchPersonList HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 262
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: d44c96e7-2f24-6930-4535-61f1e9231c12
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Content-Type: application/json
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
"operator": "SearchPersonList",
"info": {
"DeviceID":1305138,
"PersonType":0,
"BeginTime":"2018-06-01T00:00:00",
"EndTime":"2020-06-19T23:59:59",
"Gender":2,
"Age":"0-100",
"MjCardNo":0,
"Name":"",
"BeginNO":0,
"RequestCount":10,
"Picture":1
}
}HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 18:13:24 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

3fdf
{
"operator": "SearchPersonList",
"info": {
"DeviceID": 1305138,
"Listnum": 10,
"List":[
{
```

……

```
{
"operator": "SearchPersonList",
"info": {
"DeviceID": 1305138,
"Listnum": 10,
"List":[
{
"LibID":55,
"PersonType":0,
"Name":".........",
"Gender":0,
"Nation":1,
"CardType":0,
"IdCard":" ",
"Birthday":"1970-01-01",
"Telnum":" ",
"Native":" ",
"Address":" ",
"Notes":" ",
"MjCardFrom":0,
"MjCardNo":1,
"Tempvalid":0,
"CustomizeID":0,
"PersonUUID":" ",
"ValidBegin":"0000-00-00T00:00:00",
"ValidEnd":"0000-00-00T00:00:00",
"Picinfo": "
```

C. 20 door opening control

C. 20.1 door opening control

```
POST /action/OpenDoor HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 130
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: 1fcc5118-dae5-73c3-ca38-bef00c3b8188
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/69.0.3497.81 Safari/537.36
Content-Type: application/json
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
"operator": "OpenDoor",
"info": {
"DeviceID": "1305138",
"Chn": 0,
"status":9,
"msg": "请通行！！！！"
    }
}
HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 17:38:51 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

4a
{
"operator": "OpenDoor",
"code":200,
"info": {
"Result": "Ok"
}
}
```

C. 22 control record query

Condition search method:

```
POST /action/SearchControl HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 202
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: 3519c5f1-6b75-b440-434c-1aef91c92474
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Content-Type: application/json
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
    "operator": "SearchControl",
    "info": {
        "DeviceID": 1305138,
        "BeginTime": "2019-12-04T14:30:00",
        "EndTime": "2019-12-04T23:59:59",
        "Picture": 1
    }
}
HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 18:15:29 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

3fdf
{
"operator": "SearchControl",
"info": {
"DeviceID": 1305138,
"TotalNum": 20,
"SearchInfo":[
{
"LibID": 58,
"PersonType": 0,
"Name": ".........",
"MjCardNo": 1,
"Gender": 0,
"Nation": 1,
```

ID number search method:

```
POST /action/SearchControl HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 271
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: 820927f3-e1c6-d150-660b-9e9b9b5d6c78
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Content-Type: application/json
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
    "operator": "SearchControl",
    "info": {
        "DeviceID": 1305138,
        "SearchType": 1,
        "IdType": 1,
        "LibID":58,
        "BeginTime": "2018-11-13T00:00:00",
        "EndTime": "2020-11-13T23:59:59",
        "Picture": 0
    }
}
HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 18:16:58 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

729
{
"operator": "SearchControl",
"info": {
"DeviceID": 1305138,
"LibID": 58,
"PersonType": 0,
"Name": ".........",
"MjCardNo": 1,
"Gender": 0,
"Nation": 1,
```

C. 23 common setting parameter setting

C. 23.1 obtaining common setting parameters

```
POST /action/GetGeneralParam HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 0
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: 27c3c4ec-e6f2-98a8-7474-4b7ab27fb547
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Content-Type: application/json
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 18:17:52 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

104
{"operator": "GetGeneralParam","DeviceID": 1305138,"info": {"FaceThreshold": 90,"IDCardThreshold":
50,"ControlType": 0,"AutoRebootDay": 0,"AutoRebootHour": 0,"IPAddr": "172.168.2.238","Submask":
"255.255.255.0","Gateway": "172.168.2.1","DNS": "202.96.134.33"}}
0
```

C. 23.2 setting common parameters

```
POST /action/SetGeneralParam HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 332
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: 5a08d998-af35-7992-6a2d-4b45986e57f3
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Content-Type: application/json
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
  "operator": "SetGeneralParam",
  "DeviceID": 1305138,
  "info": {
    "FaceThreshold": 75,
    "IDCardThreshold": 50,
    "ControlType": 0,
    "AutoRebootDay": 0,
    "AutoRebootHour": 0,
    "IPAddr": "172.168.2.238",
    "Submask": "255.255.255.0",
    "Gateway": "172.168.2.1",
    "DNS": "202.96.134.33"
  }
}HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 18:18:10 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

4d
{
"operator": "SetWorktype",
"code":200,
"info": {
"Result": "Ok"
}
}
```

C. 24 restart device

C. 24.1 restarting the device

```
POST /action/RebootDevice HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 106
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: 53adb48c-b55a-b7e6-0fe8-0f1c7463f65d
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
69.0.3497.81 Safari/537.36
Content-Type: application/json
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
  "operator": "RebootDevice",
  "info": {
     "DeviceID": 1305138,
     "IsRebootDevice": 1
  }
}HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 11:46:50 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

4e
{
"operator": "RebootDevice",
"code":200,
"info": {
"Result": "Ok"
}
}
```

C. 25 picture service function

C. 25.1 picture comparison similarity

```
POST /action/GetPictureSimilarity HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 88123
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: 236f356c-20b0-9ebb-6f17-6c0b7388801a
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/69.0.3497.81 Safari/537.36
Content-Type: application/json
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
"operator":"GetPictureSimilarity",
"picinfo1":"
2wBDAAIBAQIBAQICAgICAgICAwUDAwMDAwYEBAMFBwYHBwcGBwcICQsJCAgKCAcHCg0KCgsMDAwMBwkODw0MDgsMDAz/
2wBDAQICAgMDAwYDAwYMCAcIDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAz/
wAARCACZAIADASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/
8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo
```

……

```
u5HLEZ5HPHet3R9VvFuk8uWSFlGDKhwY/T/GuQ8Nfcf8A366jSOjf75r8txVSVWcpT9TSVNU/djsd74I+KlvoOsR/
2raw3F1g+XczS+TA46HzDjCY9+Djr2rp/jD8EbP9qDQdAaHXLfw+unyNNDHb3UF1FdiTZk/MM5AXaCpP3znPFeVWv37X/
r4Feh6T/wAgWP8A6/D/AOhCnl+bYvAzc8JP1XVbp+qZ5eYZThcXBRrwu+j6o//Z",
"picinfo2":"
v7+/v7+/v7+/v7+/v7+/v7+/v7+/v7+/v7+/f/8/v3//v7+//7///39/Pz///v+//z
+opCTrZ6ZtKSdm4+T59rpt7G/xsLIenZ1g3ZzgHZ44dTj1dLo1tDp3N3tx8DHhYV7kYqBkYmIyL/
Mv7PJwrzN2NPo5Nrry8XGkIp/mJCDkZCDlY+Q7+vxmZSX0czZ59zy3Nzvyszgoqa0QkFgKjRQOENqU2CLcou0dYq
+bXzCIzJ9bH67VGuiWXWnXHWlWHGjVnGfUWuaTWiXTGSUTWeWTWWTS2SQRF
+SRGGOQWGMRmCORmGNSGCOQ2CNSGOPQVuKQ16KRFyLP1+IR16QQFqGQ1yLQFyLRmCKQ16IR2CRRFyRR12YOEKRJTOCHjJ3
RWGYSmqbUHCbUnGeU3SiWXamWHmrXH6sVHuoXn6rXX6nWXqcdIqgucXXxL7UzcbS1sjU18bJeWRjf3Rsg3px/v7+/v7+/
v7+/v7+/v7+/v7+/v7+/v7+/v7+/v7+/v7+/v7+/v7+/v7+/v7+/v7+/v79/P3+//
3+w7G1sKCYs6WhqJiX5djsubHAxcTHhHx5hXZyhX+A4NXm2dPo1c/q4OPvwLzCi4V7jIt
+jYWFycLKvLTLwbnK1NPk4dns1dHVjYiAlpCEk5GBjIqH7+/urqyunJSi6N/
03tvu0dHkjpKhODxUKzVROERjT12FYXSddIi6cn7IGCp3bH2/TWacXHapV3KjWHCiWG
+fSmmYTWeVT2eZS2WUTmOSSWOUR2SQR2CPRmKOR1+MR2KOR1+NQ16MQVyIQ1+KQVyJRmGKRGKLSWCRSWKMQ1+OQV
+IPlyGRl
+NQmGLR2CRR2CVSFiWNTmRGy98NVCNU2ukUXKdTm2eVHOeWnSpU3akU3elW3upWnuoXX6oXXunVHqZgpm0vsLWwcPUy8LS
```

……

```
v3+/v/9/v7+/v7+"
}
HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 13:37:54 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

41
{"operator": "GetPictureSimilarity","info": {"Similarity": 93.9}}
0
```

C. 25.2 search local face database by graph

```
POST /action/GetPictureSearch HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 77005
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: 8432335c-a3ad-33b8-4c65-4051954aed0c
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/69.0.3497.81 Safari/537.36
Content-Type: application/json
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
    "operator": "GetPictureSearch",
"info": {
"MaxSimilarity":80,
"MaxNum":5
    },
"picinfo":"
v7+/v7+/v7+/v7+/v7+/v7+/v7+/v7+/v7+/v7+/f/8/v3//v7+//7///39/Pz///v+//z
+onCIr767tKSdm4+I59rnt7G/xsLIen71g37zgHZ44dIj1dLo1tDn3N3tx8DHhYV7kYgBkYmIvL/
```

.....

```
v3+/v/9/v7+/v7+"
}
HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 13:39:56 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

1b6
{"operator": "GetPictureSearch","info": {"TotalNum": 1,"SearchInfo": [{"Uid": 2,"Type":
0,"Name": "陈[redacted]","Cardtype": 2,"MjCardNo": 1369406761,"Sex": 0,"Nation": 1,"Certype":
0,"Cernumber": "430923199011044411","Birth": "1990-11-04","Phone": "18888888888","Place": "广
东","Addr": "深圳宝安","Notes": "备注","Filetype": 0,"Fileindex": 0,"Filepos":
65536,"CustomizeID": 123456,"PersonUUID": " ","Time": "2019-12-02/11:40:42"}]}}
0
```

C. 25.3 face detection in pictures

```
POST /action/DetectFaceFromPic HTTP/1.1
Host: 172.168.2.238
Connection: keep-alive
Content-Length: 76971
Authorization: Basic YWRtaW46YWRtaW4=
Postman-Token: f845e3bc-f1d0-199d-2d46-49705274a358
Cache-Control: no-cache
Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/69.0.3497.81 Safari/537.36
Content-Type: application/json
Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9

{
    "operator": "DetectFaceFromPic",
"info": {
    },
"picinfo":"
```

……

```
v3+/v/9/v7+/v7+"
}HTTP/1.1 200 OK
Server: FaceGate/4.0.0-1.0
Date: Wed Dec  4 13:41:52 2019
Transfer-Encoding: chunked
Connection: keep-alive
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: chrome-extension://fhbjgbiflinjbdggehcddcbncdddomop
Content-Type: application/json; charset=UTF-8

3b
{"operator": "DetectFaceFromPic","info": {"DetectFace": 1}}
0
```

Appendix D others

D. 1 nation

National numerical code (int)	nation
1	Chinese
2	Mongolia
3	return
4	hide
5	Uygur
6	seedling
7	Yi Nationality
8	strong
9	Bouyei
10	North Korea
11	full
12	Dong
13	Yao
14	white
15	Tujia
16	Hani
17	Kazakh
18	Dai nationality
19	Li
20	Lisu
21	Wa
22	She
23	mountain
24	Lahu
25	water
26	Dongxiang
27	Naxi
28	Jingpo
29	Kirgiz
30	Soil
31	daur
32	Mulao
33	Qiang Nationality
34	Brown

35	Sarah
36	Maonan
37	gelao
38	Xibe
39	Achang
40	Pumi
41	Tajikistan
42	anger
43	Uzbek
44	Russia
45	Ewenki
46	De ang
47	security staff
48	Guyu
49	Beijing
50	Tatar
51	Derung
52	Oroqen
53	Hezhen
54	Menba
55	loba
56	Gino
57	other