

HTTP Protocol For Face Recognition All-in-One Machine

V2.0.3

1、Documentation

This document is mainly used to interface with the HTTP method of the face recognition all-in-one machine, and is suitable for system developers and maintainers.

2、Interface Description

This data interface specification uses the standard HTTP protocol for communication with the following requirements:

2.1 Request Method

The request method uses the `POST` method, and the download and upload data are placed in the message body (entity-body).

2.2 Data Types And Formats

1. All strings should be encoded in the `UTF-8` character set.
2. The data exchanged between the two parties is uniformly packaged in `JSON` format, with the following basic format:

```
1  {
2      "operator": "<Operator>",
3      "info": {<Info>} ,
4      ....
5 }
```

See the interface-specific test cases below for details.

3. All image data is encoded using `base64` encoding or image `URI`.
4. All HTTP interactions must contain `Content-Length` or `Transfer-Encoding` in the header, noting that it is case-sensitive.

2.3 Grammatical

The format of the requested `URI`:`http://<server_ipaddr>/action/<operator>`。 Where `<server_ipaddr>`:the ip address of the requested Face Recognition All-in-One Machine ; `<operator>`:the content of the action. See the interface-specific test cases below for details.

2.4 Authenticate

In order to ensure the security of data transmission, authentication is performed during formal data transmission, and the `basic` method is used for the time being. Typical data of `Authorization header` is `"Authorization: Basic jdhaHY0="`, where `Basic` means basic authentication, and `jdhaHY0=` is the base64-encoded `user:passwd` string. For example, if the username of the Face Recognition All-in-One Machine is “admin” and the password is ‘admin’, then the base64 encoding of “admin:admin” in the header of the sent data is “admin:admin”, and the base64 encoding of “admin:admin” is “admin:admin”, and the base64 encoding is “admin:admin”. The base64 encoding of “admin:admin” in the header of the sent data is “YWRtaW46YWRtaW4=”, and the ID authentication of the sent data is as follows: “YWRtaW46YWRtaW4=”.

If you are using `postman` as an example to debug the interface, select `Basic Auth` under `Authorization`, enter your username and password, click `Update Request`, and `postman` will encrypt your username and password and add them to the Headers, as shown in the figure:

The screenshot shows the Postman interface. At the top, there are tabs for `POST`, `Enter request URL`, `Params`, `Send`, and `Save`. Below these, a navigation bar includes `Authorization` (selected), `Headers (1)`, `Body`, `Pre-request Script`, `Tests`, and `Generate Code`. Under the `Authorization` tab, there is a dropdown for `Type` set to `Basic Auth`, a `Clear` button, and an `Update Request` button. Below this, there are fields for `Username` (containing `admin`) and `Password` (containing `****`). A note states: `The authorization header will be generated and added as a custom header`. There is also a checked checkbox for `Save helper data to request` and a `Show Password` link.

After setting up, select `POST` request method, enter the corresponding function interface URL, and click `Send`.

3、System Interfaces

3.1 Personnel Management

Personnel management mainly involves the management of personnel interactions between the platform and the Face Recognition All-in-One Machine.

3.1.1 List Editing and Modification

1. Description

Adding and modifying individual list, the parameters to be modified are optional, if they do not need to be modified, the corresponding field values should not appear in the data sent. Add or modify the list according to `CustomizeID` or `PersonUUID`, if `CustomizeID` or `PersonUUID` already exists, then modify the list, if it doesn't exist, then add the list which corresponds to `CustomizeID` or `PersonUUID`; this interface can only choose one or the other of `CustomizeID` or `PersonUUID`. `CustomizeID` or `PersonUUID` can only choose one or the other. The image of the corresponding issued list of people can be issued with a field value of `picinfo` filled with base64 image data, or with a field value of `picURI` filled with the URI address of the image, and the corresponding image data will be obtained by the Face Recognition All-in-One Machine. **These two ways are optional**, when `picinfo` and `picURI` are passed in at the same time, the default is to get the data corresponding to the `picinfo`, **If it is to modify the list of people, it is not involved. If you are modifying the list of people, and there is no image replacement involved, you can not pass in the field values `picURI` and `picinfo`.**

2. API Description

Items	Description
Operator	<code>EditPersonNew</code>
Request URL	<code>http://<server ipaddr>/action/EditPersonNew</code> (Where <code><server ipaddr></code> is the device IP , for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

Key	Type	Values	Description
operator	string	EditPersonNew	Individual personnel additions or modifications
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
IdType	int	0/2	Type of ID to be operated 0:CustomizeID 2:PersonUUID
CustomizeID	unsigned int Must be filled in when IdType=0		User-defined ID You can manage the corresponding personnel information such as modification and deletion by this ID number. Note: You can not use the same ID to add people repeatedly, otherwise it will lead to errors in modifying and deleting operations.
PersonUUID	string Must be filled in when IdType=2		User-defined UUID This UUID number can be used to manage personnel information such as modification and deletion. Note: You can not use the same ID to add people repeatedly, otherwise it will lead to errors in operations such as modification and deletion (not more than 48 bytes)
PersonType	int (optional)	0~1	Type of list 0: white list 1: black list Default 0(white list): when adding people
Name	string (optional)		Name Maximum length is 32 characters (including terminator) Default “” (empty):when adding a new person

Key	Type	Values	Description
Gender	int (optional)	0~1	Genders 0: male 1: female Default 0(male): when adding people
Nation	int (optional)	Reserve	Reserve
CardType	int (optional)		ID Type 0:ID Default 0(ID): when adding people
IdCard	string (optional)		ID Number Maximum length is 32 characters (including terminator) Default “” (empty):when adding a new person
Birthday	string (optional)	YYYY-MM-DD	Birthday e.g., 2018-1-1 Default 1970-00-00:when adding a new person
Telnum	string (optional)		Telephone Number Maximum length is 32 characters (including terminator) Default “” (empty):when adding a new person
Native	string (optional)		Native Maximum length is 32 characters (including terminator) Default “” (empty):when adding a new person
Address	string (optional)		Address Maximum length is 72 characters (including terminator) Default “” (empty):when adding a new person
Notes	string (optional)		Notes Maximum length is 64 characters (including terminator) Default “” (empty):when adding a new person

Key	Type	Values	Description
MjCardFrom	int (optional)	0~3	Wiegand Card Number Generation Method 0: public number 1: automatic generation 2: manual input 3: do not use access card numbers
WiegandType	int (optional)	0~1 or 6~7	The Wiegand protocols that form the basis for the Wiegand card numbers Must be filled in when MjCardFrom=2 ; 0: 26 bits 1: 34 bits 6:26 bits(8+16 facility code+userid (fill in separately)); 7:34 bits(8+24 facility code+userid(fill in separately)) Default:1(34 bits)
WGFacilityCode	int (optional)		Facility code Must be filled in when WiegandType=6 or 7 Use with MjCardNo. Not required WiegandType=0 or 1. See 3.1.6 Wiegand Access Card Number and Built-in Swipe ID Card Number
MjCardNo	unsigned int (optional)		Wiegand Access Card Number(userid) Must be filled in when WiegandType=6 or 7 , Use with WGFacilityCode. Separate composition of Wiegand card numbers when WiegandType=0 or 1 , . See 3.1.6 Wiegand Access Card Number and Built-in Swipe ID Card Number

Key	Type	Values	Description
CardMode	unsigned int (optional)	0~1	<p>Component Access Card Number Model</p> <p>0: Decimal Composition Card Number 1: Hexadecimal Composition Card Number</p> <p>Default 0: Decimal Composition Card Number.</p> <p>See 3.1.6 Wiegand Access Card Number and Built-in Swipe ID Card Number</p>
RFCardMode	unsigned int (optional)	0~1	<p>Component RF (ID) Card Number Model</p> <p>For built-in card machine type</p> <p>0: Decimal Composition Card Number 1: Hexadecimal Composition Card Number</p> <p>Default 1: Hexadecimal Composition Card Number</p>
RFIDCard	string (optional)	If RFCardMode=0 , Fill in the decimal string ("1369406761") ; If RFCardMode=1 , Fill in the hexadecimal string ("519F7D29")	<p>ID Card Number</p> <p>Maximum length is 18 characters,for built-in card machine type(including terminator)</p> <p>See 3.1.6 Wiegand Access Card Number and Built-in Swipe ID Card Number</p>

Key	Type	Values	Description
Tempvalid	int (optional)	0~3	<p>Is it a temporary list 0: Permanent list 1: Temporary list 1 (starting and ending time periods) 2: Temporary list 2 (daily time slots, supported by new database version) 3: Temporary list 3 (number of times valid, supported by new database version) 4: Temporary List 4 (a combination of Temporary List 2 and Temporary List 3, supported by the new database version and after neutral version 9.4)</p>
ValidBegin	string (optional)	YYYY-MM-DDThh:mm:ss	<p>In the case of Temporary List 1, the start time of the entry into force of the Temporary List , e.g., 2018-03-12T09:09:20 If Temporary list 2 or Temporary list 4 , e.g., 2018-03-12T09:09:20 2018-03-12 Year/Month/Day for the commencement of the entry into force of the Temporary list 09:09:20 Hour/Minute/Second for the commencement of the entry into force of the Temporary list ;</p>
ValidEnd	string (optional)	YYYY-MM-DDThh:mm:ss	<p>In the case of Temporary List 1, the end of the effective date of Temporary List 1 , e.g., 2018-03-12T09:10:00 If Temporary list 2 or Temporary list 4 , e.g., 2018-03-12T09:09:20 2018-03-12 Year/Month/Day for the commencement of the entry into force of the Temporary list ; 09:09:20 Hour/Minute/Second for the commencement of the entry into force of the Temporary list ;</p>
EffectNumber	unsigned int (optional)	0 < EffectNumber < 2^32	Effective number of passes through Temporary List 3 or Temporary List 4 1~ 4294967295

Key	Type	Values	Description
isCheckSimilarity	int (optional)	0~1	Whether or not to perform image verification (if the similarity of the added image is greater than the black/white list threshold, it indicates that the list already exists) 0:not calibrated 1:calibrated
PersonalPassword	string (optional)		personal password(six-digit access password)
strategyInfo	json object (optional)		List Associated Access Strategy Information Keywords
strategyData	json array (optional)		List Associated Access Policy Information JSON Array Keywords Required if strategyInfo is not empty
strategyID	string (optional)		Access strategy ID Required if strategyData is not empty
picinfo	string Use either with picURI		Base64 encoded data for face images(no more than1M)
picURI	string Use either with picinfo	https://btngps.oss-cn-beijing.aliyuncs.com/image/xxx.jpg	Cloud URI address for face image data

4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/EditPersonNew
2 Content of the request:
3 {
4     "operator": "EditPersonNew",
5     "info": {
6         "DeviceID": 1743725,
7         "IdType": 0,
8         "CustomizeID": 123,
9         "PersonType": 0,
```

```

10     "Name": "test_example",
11     "Gender": 0,
12     "Nation": 1,
13     "CardType": 0,
14     "IdCard": "430923199011044411",
15     "Birthday": "1999-11-04",
16     "Telnum": "19999999999",
17     "Native": "Earth",
18     "Address": "Shenzhen",
19     "Notes": "Note",
20     "MjCardFrom": 2,
21     "WiegandType": 1,
22     "CardMode": 0,
23     "MjCardNo": 45782213,
24     "Tempvalid": 0,
25     "validBegin": "2018-03-12T09:09:20",
26     "validEnd": "2018-03-12T09:09:20",
27     "isCheckSimilarity": 0,
28     "strategyInfo": [
29         "strategyData": [
30             {"strategyID":3}
31         ]
32     ],
33 },
34     "picURI": "https://tse3-mm.cn.bing.net/th/id/OIP-
C.gxPRH969ov5C4qfT9F3IBAHaGX?pid=ImgDet&rs=1"
35 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: `optional` is optional):

Key	Type	Values	Description
operator	string	EditPersonNew	Individual list additions or modifications
info	JSON Object		concrete content
code	int		Command execution error code 200-successes , see also 7.19 Add or Modify for Individual Lists Error Codes
Result	String	“Ok”/“Fail”	Result
Detail	String (optional)		Error message when Result is “Fail”.

6. Example of Reply Message

```

1  {
2      "operator": "EditPersonNew",
3      "code": 200,
4      "info": {
5          "Result": "ok"
6      }
7  }

```

3.1.2 Batch List Additions or Modifications

1. Description

Add or modify the list according to `CustomizeID` or `PersonUUID`, if `CustomizeID` or `PersonUUID` already exists, then modify the list, if not, then add the list corresponding to `CustomizeID` or `PersonUUID`; this interface can only work with either `CustomizeID` or `PersonUUID`. `CustomizeID` or `PersonUUID` can only be used for one or the other. This interface only supports to add person's picture by `URI`. **Maximum number of personnel to be issued at one time is 1000**。 This interface is a combination of Add and Edit. , **So when editing a list of people, fields involving other list attributes don't need to be sent down** , Fields that are not sent down retain the value of the last edit. For example, if you need to change a person's name after adding them to the list for the first time, you only need to issue the person's `CustomizeID` or `PersonUUID` and the name field that needs to be changed.

2. API Description

Items	Description
Operator	<code>EditPersonsNew</code>
Request URL	<code>http://<server_ipaddr>/action/EditPersonsNew</code> (Where <code><server_ipaddr></code> is the device IP , for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

Key	Type	Values	Description
operator	string	EditPersonsNew	Batch list additions or modifications
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
IdType	int	0/2	Type of ID to be operated 0:CustomizeID, 2:PersonUUID
Total	int	maximum values is 1000	Number of people to be added or modified in bulk in this request
info	json object		Concrete content
CustomizeID	unsigned int Must be filled in when IdType=0		User-defined ID You can manage the corresponding personnel information such as modification and deletion by this ID number. Note: You can not use the same ID to add people repeatedly, otherwise it will lead to errors in modifying and deleting operations.
PersonUUID	string Must be filled in when IdType=2		User-defined UUID This UUID number can be used to manage personnel information such as modification and deletion. Note: You can not use the same ID to add people repeatedly, otherwise it will lead to errors in operations such as modification and deletion (not more than 48 bytes)
PersonType	int (optional)	0~1	Type of list 0: white list 1: black list Default 0(white list): when adding people
Name	string (optional)		Name Maximum length is 32 characters (including terminator) Default “” (empty):when adding a new person

Key	Type	Values	Description
Gender	int (optional)	0~1	Genders 0: male 1: female Default 0(male): when adding people
Nation	int (optional)	Reserve	Reserve
CardType	int (optional)		ID type 0:ID Default 0(ID): when adding people
IdCard	string (optional)		ID Number Maximum length is 32 characters (including terminator) Default "" (empty):when adding a new person
Birthday	string (optional)	YYYY-MM-DD	Birthday e.g., 2018-1-1 Default 1970-00-00:when adding a new person
Telnum	string (optional)		Telephone Number Maximum length is 32 characters (including terminator) Default "" (empty):when adding a new person
Native	string (optional)		Native Maximum length is 32 characters (including terminator) Default "" (empty):when adding a new person
Address	string (optional)		Address Maximum length is 72 characters (including terminator) Default "" (empty):when adding a new person
Notes	string (optional)		Notes Maximum length is 72 characters (including terminator) Default "" (empty):when adding a new person

Key	Type	Values	Description
MjCardFrom	int (optional)	0~3	<p>Wiegand Card Number Generation Method</p> <p>0: public number 1: automatic generation 2: manual input 3: do not use access card numbers</p> <p>Default 0(public number):when adding a new person</p>
WiegandType	int (optional)	0~1 or 6~7	<p>The Wiegand protocols that form the basis for the Wiegand card numbers</p> <p>Must be filled in when MjCardFrom=2 ;</p> <p>0: 26 bits 1: 34 bits 6:26 bits(8+16 facility code+userid(fill in separately)); 7:34 bits(8+24 facility code+userid(fill in separately))</p> <p>Default:1(34 bits)</p>
WGFacilityCode	int (optional)		<p>Facility code</p> <p>Must be filled in when WiegandType= 6 or 7. Use with MjCardNo.</p> <p>Not required WiegandType=0 or 1.</p> <p>See 3.1.6 Wiegand Access Card Number and Built-in Swipe ID Card Number</p>
MjCardNo	unsigned int (optional)		<p>Wiegand Access Card Number(userid)</p> <p>Must be filled in when WiegandType= 6 or 7 , Use with WGFacilityCode.</p> <p>Separate composition of Wiegand card numbers when WiegandType=0 or 1</p> <p>See 3.1.6 Wiegand Access Card Number and Built-in Swipe ID Card Number</p>

Key	Type	Values	Description
CardMode	unsigned int (optional)	0~1	<p>Component Access Card Number Model 0: Decimal Composition Card Number 1: Hexadecimal Composition Card Number</p> <p>Default 0: Decimal Composition Card Number.</p> <p>See 3.1.6 Wiegand Access Card Number and Built-in Swipe ID Card Number</p>
RFCardMode	unsigned int (optional)	0~1	<p>Component RF (ID) Card Number Model</p> <p>For built-in card machine type</p> <p>0: Decimal Composition Card Number 1: Hexadecimal Composition Card Number</p> <p>Default 1: Hexadecimal Composition Card Number</p>
RFIDCard	string (optional)	If RFCardMode=0 , Fill in the decimal string ("1369406761") ; If RFCardMode=1 , Fill in the hexadecimal string ("519F7D29")	<p>ID Card Number</p> <p>Maximum length is 18 characters,For built-in card machine type(including terminator)</p> <p>See 3.1.6 Wiegand Access Card Number and Built-in Swipe ID Card Number</p>

Key	Type	Values	Description
Tempvalid	int (optional)	0~3	<p>Is it a temporary list 0: Permanent list 1: Temporary list 1 (starting and ending time periods) 2: Temporary list 2 (daily time slots, supported by new database version) 3: Temporary list 3 (number of times valid, supported by new database version) 4: Temporary List 4 (a combination of Temporary List 2 and Temporary List 3, supported by the new database version and after neutral version 9.4)</p> <p>Default 0:Permanent list</p>
ValidBegin	string (optional)	YYYY-MM-DDThh:mm:ss	<p>In the case of Temporary List 1, the start time of the entry into force of the Temporary List , e.g., 2018-03-12T09:09:20</p> <p>If Temporary list 2 or Temporary list 4 , e.g., 2018-03-12T09:09:20 2018-03-12 Year/Month/Day for the commencement of the entry into force of the Temporary list ; 09:09:20Hour/Minute/Second for the commencement of the entry into force of the Temporary list ;</p>
ValidEnd	string (optional)	YYYY-MM-DDThh:mm:ss	<p>In the case of Temporary List 1, the end of the effective date of Temporary List 1 , e.g., 2018-03-12T09:10:00</p> <p>If Temporary list 2 or Temporary list 4 , e.g., 2018-03-12T09:09:20 2018-03-12 Year/Month/Day for the commencement of the entry into force of the Temporary list ; 09:09:20 Hour/Minute/Second for the commencement of the entry into force of the Temporary list ;</p>
EffectNumber	unsigned int (optional)	0 < EffectNumber < 2^32	Effective number of passes through Temporary List 3 or Temporary List 4,1~4294967295

Key	Type	Values	Description
PersonalPassword	string (optional)		personal password(six-digit access password)
isCheckSimilarity	int (optional)	0~1	Whether or not to perform image verification (if the similarity of the added image is greater than the black/white list threshold, it indicates that the list already exists) 0:not calibrated 1:calibrated
strategyInfo	json object (optional)		List Associated Access Strategy Information Keywords
strategyData	json array (optional)		List Associated Access Policy Information JSON Array Keywords Required if strategyInfo is not empty
strategyID	string (optional)		Access strategy ID Required if strategyData is not empty
picURI	string (optional)	https://btngps.oss-cn-beijing.aliyuncs.com/image/xxx.jpg	Cloud URI address for face image data

4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/EditPersonsNew
2 Content of the request:
3 {
4     "operator": "EditPersonsNew",
5     "DeviceID": 1743725,
6     "IdType": 0,
7     "Total": 2,
8     "info": [
9         {
10            "CustomizeID": 123,
11            "PersonType": 0,
12            "Name": "test1",
13            "Gender": 0,
14            "Nation": 1,
15            "CardType": 0,
16            "IdCard": "430923199011044411",
17            "Birthday": "1999-11-04",
18            "Telnum": "19999999999",

```

```

19      "Native": "Earth",
20      "Address": "Shenzhen",
21      "Notes": "Notes",
22      "MjCardFrom": 2,
23      "wiegandType": 1,
24      "CardMode": 0,
25      "MjCardNo": 1046230,
26      "Tempvalid": 0,
27      "ValidBegin": "2018-03-12T09:09:20",
28      "ValidEnd": "2018-03-12T09:09:20",
29      "picURI": "https://tse4-mm.cn.bing.net/th/id/OIP-C.
30      _BHy_gV0d_Ie7VGTAPHoEgHaFj?pid=ImgDet&rs=1"
31    },
32    {
33      "CustomizeID": 456,
34      "PersonType": 0,
35      "Name": "test2",
36      "Gender": 0,
37      "Nation": 1,
38      "CardType": 0,
39      "IdCard": "430923199011044412",
40      "Birthday": "1999-11-05",
41      "Telnum": "18888888888",
42      "Native": "Fujian",
43      "Address": "Ningde",
44      "Notes": "Notes",
45      "MjCardFrom": 2,
46      "wiegandType": 1,
47      "CardMode": 0,
48      "MjCardNo": 1046240,
49      "Tempvalid": 0,
50      "ValidBegin": "2018-03-12T09:09:20",
51      "ValidEnd": "2018-03-12T09:09:20",
52      "picURI": "https://tse2-mm.cn.bing.net/th/id/OIP-C. -
53      ipt0Fuk2qc7VLu1CiQV4gAAAA?pid=ImgDet&rs=1"
54    }

```

5. Explanation of the Paragraph of the Reply Message

Parameter information(**Note:** optional is optional):

Key	Type	Values	Description
operator		EditPersonsNew	Batch list additions or modifications
code	Int		Instruction Execution Error Codes 200-successes , see also 7.18 Add or Modify Personnel in Bulk Error Codes
info	Object		concrete content
DeviceID	String		ID number of the device to be operated
EditsErrNum	int	0~1000	Number of failed batch additions or modifications, return parameter
EditsErrInfo	Object		Batch add or modify personnel failure information(CustomizeID/PersonUUID + errcode),return parameter , errcode see 7.18 Add or Modify Personnel in Bulk Error Codes
EditsSucNum	Int	0~1000	Number of successful batch additions or modifications,return parameter
EditsSuInfo	Object		Batch add or modify personnel success information(CustomizeID/PersonUUID) ,return parameter
CustomizeID	String (optional)		User-defined ID You can use this ID number to modify, delete, etc. to manage the corresponding personnel information. Note: You cannot add personnel with the same ID repeatedly, otherwise it will cause errors in modification and deletion operations.
PersonUUID	string (optional)		User-defined UUID This UUID number can be used to manage personnel information such as modification and deletion. Note: You can not use the same ID to add people repeatedly, otherwise it will lead to errors in operations such as modification and deletion (not more than 48 bytes)
Result	String	"Ok"/"Fail"	Results of the implementation of the batch increase in personnel instruction
Detail	String (optional)		Error message when Result is "Fail".

6. Example of Reply Message

Bulk addition or modification of persons by `CustomizeID`, reply message:

```
1  {
2      "operator": "EditPersonsNew",
3      "code": 200,
4      "info": {
5          "DeviceID": 1743725,
6          "EditsErrNum": "1",
7          "EditsSucNum": "1",
8          "EditsErrInfo": [
9              {
10                 "CustomizeID": "12389",
11                 "errcode": "475"
12             }
13         ],
14         "EditsSucInfo": [
15             {
16                 "CustomizeID": "456"
17             }
18         ],
19         "Result": "OK"
20     }
21 }
```

Bulk addition or modification of persons by `PersonUUID`, reply message:

```
1  {
2      "operator": "EditPersonsNew",
3      "code": 200,
4      "info": {
5          "DeviceID": 1743725,
6          "EditsErrNum": "0",
7          "EditsSucNum": "2",
8          "EditsErrInfo": [],
9          "EditsSucInfo": [
10             {
11                 "PersonUUID": "abc"
12             },
13             {
14                 "PersonUUID": "efg"
15             }
16         ],
17         "Result": "OK"
18     }
19 }
```

3.1.3 Single or Multiple List Deletions

1. Description

Deletion of the personnel list interface also deletes **the control records (authentication records) of the corresponding personnel list and is unrecoverable**, please proceed with caution. Personnel bindings to the pass policy are also deleted, but not the pass policy. Deletion of a list provides a `LibID` or `customID` or `PersonUUID` deletion method, and `LibID` or `customID` or `PersonUUID` cannot be zero.

2. API Description

Items	Description
Operator	<code>DeletePerson</code>
Request URL	<code>http://<server ipaddr>/action/DeletePerson</code> (Where <code><server ipaddr></code> is the device IP , for example:192.168.1.10)

3. Explanation of the paragraph of the requested paper

Parameter information(Note: `optional` is optional):

Key	Type	Values	Description
operator	string	DeletePerson	Deletion of information on persons in the List database
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
TotalNum	int (optional)	1~256	How many people need to be deleted for this operation
IdType	int	0~2	0: User-defined CustomizedID , 1: Equipment database LibID, 2: PersonUUID
LibID	json array Must be filled in when IdType=1		A collection of one or more LibIDs . LibID is unsigned int type, format is Json array of LibID .
CustomizedID	json array Must be filled in when IdType=0		A collection of one or more CustomizeID CustomizeID is int type , format is Json array of CustomizeID
PersonUUID	json array Must be filled in when IdType=2		A collection of one or more UUID UUID is a string of no more than 48 bytes. , format is Json array of UUID

4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/DeletePerson
2 Content of the request:
3 {
4     "operator": "DeletePerson",
5     "info": {
6         "DeviceID": 1743726,
7         "TotalNum": 2,
8         "IdType": 0,
9         "CustomizeID": [
10             123,
11             456
12         ]
13     }
14 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: optional is optional):

Key	Type	Values	Description
operator	string	DeletePerson	Single or multiple list deletions
info	JSON Object		Concrete content
code	int		Command execution error code 200-successes , see also 7.20 Single or Multiple List Deletion Error Codes
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail".

6. Example of Reply Message

```

1  {
2      "operator": "DeletePerson",
3      "code": 200,
4      "info": {
5          "Result": "ok"
6      }
7  }

```

3.1.4 All Lists Deleted

1. Description

All personnel list deletion interface at the same time will delete all personnel list **control records (authentication records) and can not be restored** , careful operation. Call to delete all personnel list success, face recognition all-in-one opportunity to **automatic restart!**

2. API Description

Items	Description
Operator	<code>DeleteAllPerson</code>
Request URL	<code>http://<server_ipaddr>/action/DeleteAllPerson</code> (Where <code><server_ipaddr></code> is the device IP, for example:192.168.1.10)

3. Explanation of the paragraph of the requested paper

Parameter information(Note: `optional` is optional):

Key	Type	Values	Description
operator	string	DeleteAllPerson	All lists deleted
info	json object		Concrete content
DeleteAllPersonCheck	json array	1	Required if operator is DeleteAllPerson.

4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/DeleteAllPerson
2 Content of the request:
3 {
4     "operator": "DeleteAllPerson",
5     "info": {
6         "DeleteAllPersonCheck": 1
7     }
8 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: `optional` is optional):

Key	Type	Values	Description
operator	string	DeleteAllPerson	All lists deleted
info	JSON Object		Concrete content
code	int		Command execution error code 200-successes , see also 7.21 All Lists Delete Error Codes
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail".

6. Example of Reply Message

```

1 {
2     "operator": "DeleteAllPerson",
3     "code":200,
4     "info": {
5         "Result": "ok"
6     }
7 }
```

3.1.5 Getting the Database Version

1. Description

The new database supports Temporary List 2 and Temporary List 3. The old database is factory restored in the latest version, the device is rebooted, and the device boots to the latest database.

2. API Description

Items	Description
Operator	GetDatabasever
Request URL	<code>http://<server ipaddr>/action/GetDatabasever</code> (Where <server ipaddr> is the device IP, for example:192.168.1.10)

3. Example of Request Message

```
1 URL of the request:http://192.168.2.10/action/GetDatabasever
2 Content of the request: (NULL)
```

4. Explanation of the Paragraph of the Reply Message

Parameter information (Note: optional is optional):

Key	Type	Values	Description
operator	string	GetDatabaseVer	Getting the database version
info	json object		Concrete content
DatabaseVersion	int	0~1	Database version 0:Old database 1>New database

5. Example of Reply Message

```
1 {
2     "operator": "GetDatabasever",
3     "info": {
4         "DatabaseVersion": 1
5     }
6 }
```

3.1.6 Wiegand Access Card Number and Built-in Swipe ID Card Number

1. Description

Wiegand access control card number is mainly for the external card reader models, with the card mode under the comparison of the pass need to fill in this card number; external card reader Wiegand output are used in this Wiegand access control card number. In the mode where the Wiegand protocol is selected as **8+16** or **8+24**, the `WGFacilityCode` and `MjCardNo` fields together form the Wiegand access card number. The Wiegand protocol is either **26-bit** or **34-bit** mode, the `MjCardNo` field alone constitutes the Wiegand access card number.

The built-in card swiping model of the face recognition all-in-one machine uses the `RFIDCard` (ID card number) field for the swipe card **comparison pass**, and if the built-in swipe card model wants to output the Wiegand card number, it is also necessary to fill in the corresponding Wiegand access card number in accordance with the [3.1 List Editing and Modification](#) rules;

That is, the `RFIDCard` field is used for comparison pass and Wiegand output **in swipe mode**, while the built-in swipe model outputs Wiegand access control card number when swiping face pass, the built-in swipe model needs to fill in the same field according to the corresponding rules in order to output the same Wiegand card number in face swipe and swipe mode.

The Wiegand access card number fields returned in [4.4 Reporting of Certification Results](#), [3.6 List Search and Query](#) and [3.7 Control Record Inquiry](#) are all returned according to the `wiegand` and `CardMode` parameters of [6.1.2 Setting of Door Opening Conditions and Output Control Parameters](#). When the system parameter **Wiegand is 4 or 5 or 6 or 7**, the returned `WGFacilityCode` and `MjCardNo` fields together form the Wiegand access card number; when **Wiegand is 0 or 1**, the `MjCardNo` field alone forms the Wiegand access card number. A `CardMode` card mode of 0 (decimal) returns the Wegen access card number in decimal, and a `CardMode` card mode of 1 (hexadecimal) returns the Wiegand access card number in hexadecimal. The `RFIDCard` field is returned as a string, and when adding/modifying the list, the corresponding decimal/hexadecimal value will be deposited depending on the value of `RFCardMode`.

3.2 Photo Ads

The version of Face Machine software with (AD) in the version number supports polling time to play the advertisement picture, the picture format supports png/jpg/bmp format picture, and currently supports up to 10 advertisement pictures. Default advertisement effect: Stranger advertisement picture does not disappear, the UI of the face machine will show the main video picture when the personnel passes the state, continue to verify the reset time, and switch back to the advertisement picture.

5 inch machine advertisement picture pixel size 720*1280, 7 inch machine advertisement picture pixel size 600*800, 8 inch regular machine advertisement picture pixel size 800*1068, 8 inch temperature measuring machine advertisement picture pixel size 800*1117, 8 inch touch screen machine advertisement picture pixel size 800*1280. Other sizes of equipment does not support advertising function for the time being

3.2.1 Upload Ads

1. Description

Add or modify advertisements.

2. API Description

Items	Description
Operator	EditAD
Request URL	<code>http://<server ipaddr>/action/EditAD</code> (Where <server ipaddr> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information (Note: `optional` is optional):

Key	Type	Values	Description
operator	String	EditAD	Add or modify advertisements.
info	Object		Concrete content
DeviceID	int (optional)		ID number of the device to be operated See 6.8.1 Getting Device Information
addid	String(optional)	Operation ID	reserve
adslot	int	0~9	Advertising Slot
path	String		Image download path
polltime	int (optional)	Default 10 seconds	Length of time each advertisement is polled

4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/EditAD
2 Content of the request:
3 {
4     "operator": "EditAD",
5     "info": {
6         "adid": "",
7         "path":
8             "http://pics.sc.chinaz.com/files/pic/pic9/201903/zzpic16841.jpg",
9             "adslot": 0,
10            "polltime": 10
11        }
11 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: optional is optional):

Key	Type	Values	Description
operator	string	EditAD	Upload Ads
info	JSON Object		Concrete content
code	int		Command execution error code 200-successes , see also 7.39 Upload Ads Error Codes
Result	String	“Ok”/ “Fail”	Operating result
Detail	String (optional)		Error message when Result is “Fail”.

6. Example of Reply Message

```

1 {
2     "operator": "EditAD",
3     "code":200,
4     "info": {
5         "Result": "ok"
6     }
7 }
```

3.2.2 Drop Ads

1. Description

Drop Ads.

2. API Description

Items	Description
Operator	DelAD
Request URL	<code>http://<server_ipaddr>/action/DelAD</code> (Where <code><server_ipaddr></code> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

Key	Type	Values	Description
operator	String	DelAD	Drop Ads
info	Object		Concrete content
DeviceID	int (optional)		ID number of the device to be operated See 6.8.1 Getting Device Information
adid	String(optional)	Operation ID	reserve
adslot	int	0~9	Advertising Slot

4. Example of Request Message

```
1 URL of the request:  
2 Content of the request:  
3 {  
4     "operator": "DelAD",  
5     "info": {  
6         "adid": "",  
7         "adslot": 0  
8     }  
9 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: `optional` is optional):

Key	Type	Values	Description
operator	string	DelAD	Drop Ads
info	JSON Object		Concrete content
code	int		Command execution error code 200-successes , see also 7.40 Drop Ads Error Codes
Result	String	"Ok"/ "Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail".

6. Example of Reply Message

```

1  {
2      "operator": "DelAD",
3      "code": 200,
4      "info": {
5          "Result": "ok"
6      }
7  }
```

3.3 QR Code Display

The QR code section can be divided into two parts:

One part is that the QR code image can be displayed on the whole UI interface of the All-in-One machine. The All-in-One PC supports two forms of displaying the QR code image: one is to directly send down the string data of the QR code image to be encoded, and the All-in-One Machine generates the QR code image; the other is to directly send down the base64 image data of the QR code, and the All-in-One PC directly displays the image.

The other part is that the 485 interface of the all-in-one machine supports the external QR code scanner to upload the QR code scanning result data directly through the transmission. For the face recognition MFP that supports external QR code scanner, under the setting of QR code scanning information uploading mode, the parameter setting is shown in [4.5 QR Code Reporting](#).

For machines with different screen sizes, you need to calculate the starting position and image size to avoid out-of-bounds. If you send the base64 data of the image, you need to specify the original real image format of the image, otherwise the image data can not be displayed normally.

3.3.1 Setting the QR Code Image

1. Description

Setting the QR code image.

2. API Description

Items	Description
Operator	ShowQRCode
Request URL	<code>http://<server_ipaddr>/action/showQRCode</code> (Where <code><server_ipaddr></code> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

Key	Type	Values	Description
operator	string	ShowQRCode	Setting the QR code image.
info	json object		Concrete content
ShowStatus	int (optional)		Whether to display QR code image 0:Cancel display 1:Display Default 1:Display
ImageType	Int (optional)	1~4	Display Image Type 1:String of QR code images to be displayed 2:The format of the image to be displayed is png 3:The format of the image to be displayed is jpg 4:The format of the image to be displayed is bmp Default 1:String of QR code images to be displayed.
AbsX	Int (optional)	10~Maximum value for different UI heights Default:10	Display image based on UI start position X-value
AbsY	Int (optional)	10~Maximum value for different UI widths Default:10	Display image based on UI start position Y-value
ImageW	Int (optional)	10~400(Default:200)	Display image width
ImageH	Int (optional)	10~400(Default:200)	Display image height
QRCodeData	string	32K Bytes(including terminator)	String data for the QR code image to be encoded when ImageType = 1 BASE64 data for the png image to be displayed when ImageType = 2 BASE64 data for the jpg image to be displayed when ImageType = 3 BASE64 data for the bmp image to be displayed when ImageType = 4

4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action>ShowQRCode
2 Content of the request:
3 {
4     "operator": "ShowQRCode",
5     "info": {
6         "ImageType": 1,
7         "AbsX": 10,
8         "AbsY": 10,
9         "ImageW": 200,
10        "ImageH": 200,
11        "QRCodeData": "A1B2C3D4E5r6t7y8u9Pn"
12    }
13 }

```

5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: optional is optional):

Key	Type	Values	Description
operator	string	ShowQRCode	Setting the QR code image.
info	JSON Object		Concrete content
code	int		Command execution error code 200-successes,see also 7.41 Setting QR Code Image Error Codes
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```

1 {
2     "operator": "ShowQRCode",
3     "code": 200,
4     "info": {
5         "Result": "ok"
6     }
7 }

```

3.4 Photo Services

Image service functions include: image comparison similarity, searching local face database by image, detecting image faces, and obtaining panoramic image.

3.4.1 Image Similarity Comparison

1. Description

This interface provides for comparing the similarity of two images.

2. API Description

Items	Description
Operator	GetPictureSimilarity
Request URL	<code>http://<server_ipaddr>/action/GetPictureSimilarity</code> (Where <server_ipaddr> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information (Note: `optional` is optional):

Key	Type	Values	Description
operator	string	GetPictureSimilarity	Getting the similarity of people's images
picinfo1	string		Base64 encoded data of face images (no more than 1M)
picinfo2	string		Base64 encoded data of face images (no more than 1M)

4. Example of Request Message

```
1 URL of the request:  
2 Content of the request:  
3 {  
4     "operator": "GetPictureSimilarity",  
5     "picinfo1": "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQAB.....",  
6     "picinfo2": "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQAB....."  
7 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information (Note: `optional` is optional):

Key	Type	Values	Description
operator	string	GetPictureSimilarity	Getting the similarity of people's images
info	json object		Concrete content
Similarity	float		Face Image Similarity
code	int		Command execution error code 200-successes, see also 7.35 Image Comparison Similarity Error Codes
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```

1 | {
2 |     "operator": "GetPictureSimilarity",
3 |     "info": {
4 |         "Similarity": 93.4
5 |     }
6 | }
```

3.4.2 Search Local Face Database by Image

1. Description

The interface provides the comparison with the picture and the local face database of the face machine to get the corresponding results.

2. API Description

Items	Description
Operator	<code>GetPictureSearch</code>
Request URL	<code>http://<server_ipaddr>/action/GetPictureSearch</code> (Where <code><server_ipaddr></code> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information (Note: `optional` is optional):

Key	Type	Values	Description
operator	string	GetPictureSearch	Search local face database by image
info	json object		Concrete content
MaxSimilarity	float		Similarity threshold
MaxNum	int		Maximum number
picinfo	string		Base64 encoded data of face images (no more than 1M)

4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/GetPictureSearch
2 Content of the request:
3 {
4     "operator": "GetPictureSearch",
5     "info": {
6         "MaxSimilarity":80,
7         "MaxNum":5
8     },
9     "picinfo":"data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQAB...."
10 }
```

5. Explanation of the Paragraph of the Reply Message

Key	Type	Values	Description
operator	string	GetPictureSearch	Get the information and image of the face image that satisfies the condition
info	json object		Concrete content
TotalNum	int		Total number of lists returned from search results (up to 20)
SearchInfo	Array		List of returns
Uid	unsigned int		Database ID
Type	int	0~1	Type of list 0: white list 1: black list
Name	string		Name (not more than 64 bytes)
Cardtype	int		Card Number Type
MjCardNo	unsigned int		Access card number
Sex	int		Genders
Nation	int		Nation
Certype	int		Type of document
Cernumber	string		Identity card number (not more than 32 bytes)
Birth	string		Birth year
Phone	string		Telephone number
Place	string		Native (not more than 32 bytes)
Addr	string		Address (not more than 72 bytes)
Notes	string		Notes (not more than 64 bytes)
Filetype	int		Document type
Fileindex	unsigned int		Document serial number
Filepos	unsigned int		File Location

Key	Type	Values	Description
CustomizeID	unsigned int		User-defined ID This ID number can be used to modify, delete, and manage personnel information. Note: You can not use the same ID to add people repeatedly, otherwise it will lead to errors in modifying and deleting operations.
PersonUUID	string		User-defined UUID(not more than 48 bytes) This ID number can be used to modify, delete, and manage personnel information. Note: You can not use the same UUID to add people repeatedly, otherwise it will lead to errors in modifying and deleting operations.
Time	string		Creation time
code	int		Command execution error code 200-successes, see also 7.36 Search for Local Face Database by Image Error Codes
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```

1 | {
2 |     "operator": "GetPictureSearch",
3 |     "info": {
4 |         "TotalNum": 1,
5 |         "SearchInfo": [
6 |             {
7 |                 "Uid": 1,
8 |                 "Type": 0,
9 |                 "Name": "test_example",
10 |                 "Cardtype": 0,
11 |                 "MjCardNo": 1,
12 |                 "Sex": 0,
13 |                 "Nation": 1,
14 |                 "Certype": 0,
15 |                 "Cernumber": " ",
16 |                 "Birth": "2000-01-01",
17 |                 "Phone": " ",
18 |                 "Place": " ",
19 |                 "Addr": " ",
20 |                 "Notes": " "

```

```

21         "Filetype": 0,
22         "Fileindex": 0,
23         "Filepos": 0,
24         "CustomizeID": 0,
25         "PersonUUID": " ",
26         "Time": "2022-12-20/18:02:24"
27     }
28   ]
29 }
30 }
```

3.4.3 Detecting Faces in Image

1. Description

This interface provides rough detection of whether a face can be extracted from an image.

2. API Description

Items	Description
Operator	<code>DetectFaceFromPic</code>
Request URL	<code>http://<server ipaddr>/action/DetectFaceFromPic</code> (Where <server ipaddr> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

Key	Type	Values	Description
operator	string	<code>DetectFaceFromPic</code>	Detecting Faces in Images
picinfo	string		Base64 encoded data of face images (no more than 1M)

4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/DetectFaceFromPic
2 Content of the request:
3 {
4   "operator": "DetectFaceFromPic",
5   "picinfo": "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQAB....."
6 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information:Whether face is detected or not

Key	Type	Values	Description
operator	string	DetectFaceFromPic	Detecting Faces in Images
info	json object		Concrete content
DetectFace	int	0~1	Detecting Image Face Results: 0:No face detected 1:Face detected
code	int		Command execution error code 200-successes, see also 7.37 Detecting Image Face Error Codes
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```

1 | {
2 |   "operator": "DetectFaceFromPic",
3 |   "info": {
4 |     "DetectFace": 1
5 |   }
6 | }
```

3.4.4 Manual Snapshot

1. Description

This interface is only supported in special versions (versions beginning with V14). This interface supports getting the panorama capture image or face image returned by the device.

2. API Description

Items	Description
Operator	<code>FrontalFaceSnap</code>
Request URL	<code>http://<server_ipaddr>/action/FrontalFaceSnap</code> (Where <code><server_ipaddr></code> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information (Note: `optional` is optional):

Key	Type	Values	Description
operator	string	FrontalFaceSnap	Get a snapshot panorama
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
Overall	int	0~1	Image Type 0:Get face image(get failed as timeout return) 1:Get a snapshot panorama
TimeOut	int (optional)	0~30	Manual capture timeout, default value is 15, unit: s

4. Example of Request Message

```

1 URL of the request:
2 Content of the request:
3 {
4     "operator": "FrontalFaceSnap",
5     "info": {
6         "DeviceID": 1743726,
7         "overall": 1
8     }
9 }
```

5. Explanation of the Paragraph of the Reply Message

Key	Type	Values	Description
operator	string	FrontalFaceSnap	Manual snapshot
FacePic	string		Base64 encoded data of the image (no more than 1.5M), return data
code	int		Command execution error code 200-successes, see also 7.38 Manual Snapshot Error Codes
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```

1  {
2      "operator": "FrontalFaceSnap",
3      "code": 200,
4      "info": {
5          "Result": "ok"
6      },
7      "FacePic": "data:image/jpeg;base64,/9j/4AAQSkZ....."
8  }

```

3.4.5 Get Face Image

1. Description

Get face images in the device based on parameters such as file type, file index, and file location.

2. API Description

Items	Description
Operator	GetImage
Request URL	<code>http://<server ipaddr>/action/GetImage</code> (Where <code><server ipaddr></code> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

Key	Type	Values	Description
operator	string	GetImage	Search local face database by image
info	json object		Concrete content
dwfiletype	unsigned int	0~2	Document type 0:Black and white list image files 1:ID card image files 2:Real-time captured image files (Only black and white list images are currently supported)
dwfileindex	unsigned int		Document index reference 3.4.2 Search Local Face Database by Image
dwfilepos	unsigned int		Document Location Reference 3.4.2 Search Local Face Database by Image

4. Example of Request Message

```
1 URL of the request:http://192.168.2.10/action/GetImage
2 Content of the request:
3 {
4     "operator": "GetImage",
5     "info": {
6         "dwfiletype": 0,
7         "dwfileindex": 0,
8         "dwfilepos": 0
9     }
10 }
```

5. Explanation of the Paragraph of the Reply Message

If getting the image is successful, the reply message body is the image data.

If getting the image fail , Parameter information(Note: optional is optional):

Key	Type	Values	Description
operator	string	HttpGetImage	Get face image
info	JSON Object		Concrete content
code	int		Command execution error code 200-successes,see also 7.43 Get Face Image Error Codes
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```
1 {
2     "operator": "HttpGetImage",
3     "code": 463,
4     "info": {
5         "Result": "Fail",
6         "Detail": "Unkonw Parameter"
7     }
8 }
```

3.5 Playing Voice Files

Gets the name of an audio file that can be played in the device, or you can play a specified voice file.

3.5.1 Get the Number of Files to Play and Their Names

1. Description

Get a list of voice file names that can be played on the device

2. API Description

Items	Description
Operator	GetAudio
Request URL	<code>http://<server_ipaddr>/action/GetAudio</code> (Where <code><server_ipaddr></code> is the device IP, for example:192.168.1.10)

3. Example of Request Message

```
1 | URL of the request: http://172.168.2.10/action/GetAudio
2 | Content of the request: (空)
```

4. Explanation of the Paragraph of the Reply Message

Parameter information (Note: `optional` is optional):

Key	Type	Values	Description
operator	string	GetAudio	Get a list of voice file names that can be played on the device
info	JSON Object		Concrete content
AudioNum	int		Number of audio files
AudioName	JSON array		List of audio file names in the format of a JSON array of audio file names
AudioCustomerNum	int		Number of user-defined sound files
AudioCustomerName	JSON array		User-defined sound file name collection

5. Example of Reply Message

```
1 | {
2 |   "operator": "GetAudio",
```

```

3   "info": {
4       "AudioNum": 58,
5       "AudioName": [
6           "listExpired.wav",
7           "noIDCardReader.wav",
8           "welcome.wav",
9           ...
10          "SLYellowSorry.wav",
11          "tempertureOk.wav",
12          "unRecorded.wav",
13          "greenCodewelcome.wav"
14      ],
15      "AudioCustomerNum": "0",
16      "AudioCustomerName": []
17  }
18 }

```

3.5.2 Playing Audio Files

1. Description

Play an audio file with the specified filename.

2. API Description

Items	Description
Operator	<code>SetAudio</code>
Request URL	<code>http://<server ipaddr>/action/SetAudio</code> (Where <code><server ipaddr></code> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

Key	Type	Values	Description
operator	string	SetAudio	Play an audio file with the specified filename
info	JSON Object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
AudioType	int	0~1	Types of Playback Files 0:Playing Local Files 1:Playing customized files
AudioName	string		Name of the audio file to be played (Must be a wav file, sample rate:16000Hz, sample bit:16 bit, mono. Maximum file name length is 64 bytes)

4. Example of Request Message

```

1 URL of the request:http://172.168.2.10/action/SetAudio
2 Content of the request:
3 {
4     "operator": "SetAudio",
5     "info": {
6         "DeviceID":1300001,
7         "AudioType":0,
8         "AudioName":"welcome.wav"
9     }
10 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: optional is optional):

Key	Type	Values	Description
operator	string	SetAudio	Play an audio file with the specified filename
info	JSON Object		Concrete content
code	int		Command execution error code 200-successes,see also 7.3 Playing Audio Files Error Codes
Result	String	"Ok"/ "Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```
1 | {
2 |     "operator": "SetAudio",
3 |     "code": 200,
4 |     "info": {
5 |         "Result": "ok"
6 |     }
7 | }
```

3.6 List Search and Query

Query the list that matches the search criteria based on the corresponding search criteria.

3.6.1 Individual List Search

1. Description

Query the list based on the `CustomizeID`, `UUID`, or database ID you are looking for.

2. API Description

Items	Description
Operator	<code>SearchPerson</code>
Request URL	<code>http://<server_ipaddr>/action/SearchPerson</code> (Where <code><server_ipaddr></code> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

Key	Type	Values	Description
operator	string	SearchPerson	Query the list based on the <code>CustomizeID</code> , <code>UUID</code> , or database ID you are looking for.
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See [6.8.1 Getting Device Information](
SearchType	int (optional)	0~2	0:CustomizeID 1:UUID 2:Database ID Default 0
SearchID	string		CustomizeID、UUID or DatabaseID
Picture	int	0~1	Whether to include image information 0>List without picture information 1>List with picture information

4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/SearchPerson
2 Content of the request:
3 {
4     "operator": "SearchPerson",
5     "info": {
6         "DeviceID": 1743726,
7         "SearchType": 2,
8         "SearchID": "1",
9         "Picture": 1
10    }
11 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: `optional` is optional):

Key	Type	Values	Description
operator	string	SearchPerson	Individual list search
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
LibID	int		List database ID
PersonType	int	0~1	List Type 0: White list 1: Black list
Name	string		Name Maximum length 32 character length (including terminator)
Gender	int	0~1	Genders 0: male 1: female
Nation	int	Reserve	Reserve
CardType	int		ID Type 0:ID
IdCard	string		ID Number Maximum length is 32 characters (including terminator)
Birthday	string	YYYY-MM-DD	Birthday e.g., 2018-1-1
Telnum	string		Telephone Number Maximum length is 32 characters (including terminator)
Native	string		Native Maximum length is 32 characters (including terminator)
Address	string		Address Maximum length is 72 characters (including terminator)
Notes	string		Notes Maximum length is 64 characters (including terminator)

Key	Type	Values	Description
PersonalPassword	string (optional)		personal password(six-digit access password)
strategyNum	int		Number of access strategy tied to personnel
strategyID	json array	int array	Access strategy ID
MjCardFrom	int	0~3	Wiegand Card Number Generation Method 0: public number 1: automatic generation 2: manual input 3: do not use access card numbers
WGFacilityCode	int (optional)		Facility code When Wiegand=4 or 5 or 6 or 7 in 6.1 Door Opening Conditions and Output Control Parameters and the MjCardNo field together form the Wiegand card number When Wiegand=0 or 1 , this parameter has no practical meaning. See 3.1.6 Wiegand Access Card Number and Built-in Swipe ID Card Number
MjCardNo	unsigned int		Wiegand access card number (userid) When Wiegand=4 or 5 or 6 or 7 in 6.1 Door Opening Conditions and Output Control Parameters and the WGFacilityCode field together form the Wiegand Card Number When Wiegand=0 or 1, alone constitutes a Wiegand card number. See 3.1.6 Wiegand Access Card Number and Built-in Swipe ID Card Number
RFIDCard	string (optional)		ID Card Number Maximum length is 18 characters,for built-in card machine type(including terminator) See 3.1.6 Wiegand Access Card Number and Built-in Swipe ID Card Number

Key	Type	Values	Description
Tempvalid	int	0~3	<p>Is it a temporary list 0: Permanent list 1: Temporary list 1 (starting and ending time periods) 2: Temporary list 2 (daily time slots, supported by new database version) 3: Temporary list 3 (number of times valid, supported by new database version) 4: Temporary List 4 (a combination of Temporary List 2 and Temporary List 3, supported by the new database version and after neutral version 9.4)</p>
CustomizedID	unsigned int		<p>User-defined ID You can manage the corresponding personnel information such as modification and deletion by this ID number. Note: You can not use the same ID to add people repeatedly, otherwise it will lead to errors in modifying and deleting operations.</p>
PersonUUID	string		<p>User-defined UUID (not more than 48 bytes) This UUID number can be used to manage personnel information such as modification and deletion. Note: You can not use the same ID to add people repeatedly, otherwise it will lead to errors in operations such as modification and deletion</p>
EffectNumber	int		Effective number of passes through Temporary List 3 or Temporary List 4
ValidBegin	string	YYYY-MM-DDThh:mm:ss	In the case of Temporary List 1 or Temporary List 4, the start time of the entry into force of the Temporary List e.g., 2018-03-12T09:09:20
ValidEnd	string	YYYY-MM-DDThh:mm:ss	In the case of Temporary List 1 or Temporary List 4, the end of the effective date of Temporary List e.g., 2018-03-12T09:10:00
picinfo	string (optional)		Base64 encoded data for face images

Parameter information of the reply message in case of error.

Key	Type	Values	Description
operator	string	SearchPerson	Individual list search
info	JSON Object		Concrete content
code	int		Command execution error code 200-successes, see also 7.27 Individual List Search Error Codes
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```
1  {
2      "operator": "SearchPerson",
3      "info": {
4          "DeviceID": 1743726,
5          "LibID": 1,
6          "PersonType": 0,
7          "Name": "test_example",
8          "Gender": 0,
9          "Nation": 1,
10         "CardType": 0,
11         "IdCard": " ",
12         "Birthday": "2000-01-01",
13         "Telnum": " ",
14         "Native": " ",
15         "Address": " ",
16         "Notes": " ",
17         "strategyNum": 2,
18         "strategyID": [
19             1,
20             2
21         ],
22         "MjCardFrom": 0,
23         "MjCardNo": 1,
24         "RFIDCard": "0",
25         "Tempvalid": 0,
26         "CustomizeID": 0,
27         "PersonUUID": " ",
28         "EffectNumber": "0",
29         "ValidBegin": "0000-00-00T00:00:00",
30         "ValidEnd": "0000-00-00T00:00:00"
```

```
31     },
32     "picinfo": "data:image/jpeg;base64,Qk2W....."
33 }
```

3.6.2 Total Number of List Queries

1. Description

Returns the total number of eligible lists based on the query criteria.

Search Description:

- 1、Search by time: set the start time and the end time of the search, the name is empty.
- 2、Search by name or fuzzy search by name: set the start time and end time of the search to be empty, the name is not empty.

2. API Description

Items	Description
Operator	SearchPersonNum
Request URL	<code>http://<server ipaddr>/action/SearchPersonNum</code> (Where <code><server ipaddr></code> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

Key	Type	Values	Description
operator	string	SearchPersonNum	Returns the total number of eligible lists based on the query criteria.
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
PersonType	int (optional)	0~2	List Type 0:White list 1:Black list 2:All Default 0
BeginTime	string (optional)		Starting point of search Defaults to an empty string
EndTime	string (optional)		End point of search Defaults to an empty string
Name	string (optional)		Name (not more than 32 bytes) Defaults to an empty string
Gender	int (optional)		Genders 0:Male 1:Female 2:All Default 2
Age	string (optional)		Age range:e.g.1-100 Default 0-100
MjCardNo	unsigned int (optional)		Access card number 0:The condition is invalid Default 0

4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/SearchPersonNum
2 Content of the request:
3 {
4     "operator": "SearchPersonNum",
5     "info": {
6         "DeviceID": 1743726,
7         "PersonType": 0,
8         "BeginTime": "2018-06-01T00:00:00",
9         "EndTime": "2022-12-21T23:59:59",

```

```

10         "Gender": 2,
11         "Age": "0-100",
12         "MjCardNo": 0,
13         "Name": ""
14     }
15 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: `optional` is optional):

Key	Type	Values	Description
operator	string	SearchPersonNum	Total number of list queries
info	JSON Object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
MaxListsNum	unsigned int		Maximum total number of lists supported by the device
PersonNum	unsigned int		Total number of lists matching the search criteria
code	int		Command execution error code 200-successes, see also 7.28 Total Number of List Queries Error Codes
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```

1 {
2     "operator": "SearchPersonNum",
3     "info": {
4         "DeviceID": 1743726,
5         "MaxListsNum": 24576,
6         "PersonNum": 1
7     }
8 }
```

3.6.3 Multiple List Searches

1. Description

Search for lists based on the search criteria as well as the starting position to be searched and the number of lists to be searched.

Search Description:

- 1、Search by time: set the start time and the end time of the search, the name is empty.
- 2、Search by name or fuzzy search by name: set the start time and end time of the search to be empty, the name is not empty.

2. API Description

Items	Description
Operator	SearchPersonList
Request URL	<code>http://<server ipaddr>/action/SearchPersonList</code> (Where <code><server ipaddr></code> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

Key	Type	Values	Description
operator	string	SearchPersonList	Return lists based on starting position and number of queries
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
PersonType	int (optional)	0~2	List Type 0: White list 1: Black list 2: All Default 0
BeginTime	string (optional)		Starting point of search Defaults to an empty string
EndTime	string (optional)		End point of search Defaults to an empty string
Name	string (optional)		Name (not more than 32 bytes) Defaults to an empty string
Gender	int (optional)	0~2	Genders 0:Male 1:Female 2:All Default 2
Age	string (optional)		Age range:e.g.1-100 Default 0-100
MjCardNo	unsigned int (optional)		Access card number 0:The condition is invalid Default 0
BeginNO	int (optional)		Queries the starting position of the list, i.e., from which person Default 0
RequestCount	int (optional)		The total number of messages returned by the query list, the maximum number of messages returned is 100, and only 100 messages are returned even if the setting exceeds 100. Default 15

Key	Type	Values	Description
Picture	int	0~1	Whether to include image information 0:List without picture information 1:List with picture information Default 0

4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/SearchPersonList
2 Content of the request:
3 {
4     "operator": "SearchPersonList",
5     "info": {
6         "DeviceID":1743726,
7         "PersonType":0,
8         "BeginTime":"2018-06-01T00:00:00",
9         "EndTime":"2022-12-21T23:59:59",
10        "Gender":2,
11        "Age":"0-100",
12        "MjCardNo":0,
13        "Name":"",
14        "BeginNO":0,
15        "RequestCount":100,
16        "Picture":0
17    }
18 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: `optional` is optional):

Returns information about the parameters of the list.

Key	Type	Values	Description
operator	string	SearchPersonList	Multiple list searches
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
ListNum	int		Number of lists in the reply message
TotalNum	int		Total number of matches in the device list database
List	json array		Specific list information in the reply message
LibID	int		List database ID
PersonType	int	0~1	List Type 0: White list 1: Black list
Name	string		Name Maximum length 32 character length (including terminator)
Gender	int	0~1	Genders 0: male 1: female
Nation	int	Reserve	Reserve
CardType	int		ID Type 0:ID
IdCard	string		ID Number Maximum length is 32 characters (including terminator)
Birthday	string	YYYY-MM-DD	Birthday e.g., 2018-1-1
Telnum	string		Telephone Number Maximum length is 32 characters (including terminator)
Native	string		Native Maximum length is 32 characters (including terminator)

Key	Type	Values	Description
Address	string		Address Maximum length is 72 characters (including terminator)
Notes	string		Notes Maximum length is 64 characters (including terminator)
MjCardFrom	int	0~3	Wiegand Card Number Generation Method 0: public number 1: automatic generation 2: manual input 3: do not use access card numbers
PersonalPassword	string (optional)		Personal password(six-digit access password)
strategyNum	int		Number of access strategy tied to personnel
strategyID	json array		Access strategy ID
WGFacilityCode	int (optional)		Facility code When Wiegand=4 or 5 or 6 or 7 in 6.1 Door Opening Conditions and Output Control Parameters and the MjCardNo field together form the Wiegand card number When Wiegand=0 or 1 , this parameter has no practical meaning. See 3.1.6 Wiegand Access Card Number and Built-in Swipe ID Card Number
MjCardNo	unsigned int		Wiegand access card number (userid) When Wiegand=4 or 5 or 6 or 7 in 6.1 Door Opening Conditions and Output Control Parameters and the WGFacilityCode field together form the Wiegand Card Number When Wiegand=0 or 1, alone constitutes a Wiegand card number. See 3.1.6 Wiegand Access Card Number and Built-in Swipe ID Card Number

Key	Type	Values	Description
RFIDCard	string (optional)		<p>ID Card Number</p> <p>Maximum length is 18 characters,for built-in card machine type(including terminator)</p> <p>See 3.1.6 Wiegand Access Card Number and Built-in Swipe ID Card Number</p>
Tempvalid	int	0~3	<p>Is it a temporary list</p> <p>0: Permanent list</p> <p>1: Temporary list 1 (starting and ending time periods)</p> <p>2: Temporary list 2 (daily time slots, supported by new database version)</p> <p>3: Temporary list 3 (number of times valid, supported by new database version)</p> <p>4: Temporary List 4 (a combination of Temporary List 2 and Temporary List 3, supported by the new database version and after neutral version 9.4)</p>
CustomizeID	unsigned int		<p>User-defined ID</p> <p>You can manage the corresponding personnel information such as modification and deletion by this ID number.</p> <p>Note: You can not use the same ID to add people repeatedly, otherwise it will lead to errors in modifying and deleting operations.</p>
PersonUUID	string		<p>User-defined UUID (not more than 48 bytes)</p> <p>This UUID number can be used to manage personnel information such as modification and deletion.</p> <p>Note: You can not use the same ID to add people repeatedly, otherwise it will lead to errors in operations such as modification and deletion</p>
EffectNumber	int		Effective number of passes through Temporary List 3 or Temporary List 4

Key	Type	Values	Description
ValidBegin	string	YYYY-MM-DDThh:mm:ss	In the case of Temporary List 1 or Temporary List 4, the start time of the entry into force of the Temporary List . e.g., 2018-03-12T09:09:20
ValidEnd	string	YYYY-MM-DDThh:mm:ss	In the case of Temporary List 1 or Temporary List 4, the end of the effective date of Temporary List . e.g., 2018-03-12T09:10:00
picinfo	string		Base64 encoded data for face images

Parameter information of the reply message in case of error.

Key	Type	Values	Description
operator	string	SearchPersonList	Multiple list searches
info	JSON Object		Concrete content
code	int		Command execution error code 200-successes, see also 7.29 Multiple List Searches Error Codes
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```

1  {
2      "operator": "SearchPersonList",
3      "info": {
4          "DeviceID": 1743726,
5          "Listnum": 3,
6          "Totalnum": 64,
7          "List": [
8              {
9                  "LibID": 5,
10                 "PersonType": 0,
11                 "Name": "example60",
12                 "Gender": 0,
13                 "Nation": 1,
14                 "CardType": 0,
15                 "IdCard": " ",
16                 "Birthday": "1970-01-01",

```

```
17      "Telnum": " ",
18      "Native": " ",
19      "Address": " ",
20      "Notes": " ",
21      "MjCardFrom": 0,
22      "strategyNum": 0,
23      "strategyID": [],
24      "MjCardNo": 0,
25      "RFIDCard": "0",
26      "Tempvalid": 0,
27      "CustomizeID": 0,
28      "PersonUUID": " ",
29      "validBegin": "0000-00-00T00:00:00",
30      "validEnd": "0000-00-00T00:00:00"
31    },
32    {
33      "LibID": 3,
34      "PersonType": 0,
35      "Name": "example62",
36      "Gender": 1,
37      "Nation": 1,
38      "CardType": 0,
39      "IdCard": " ",
40      "Birthday": "1970-01-01",
41      "Telnum": " ",
42      "Native": " ",
43      "Address": " ",
44      "Notes": " ",
45      "MjCardFrom": 0,
46      "strategyNum": 0,
47      "strategyID": [],
48      "MjCardNo": 1,
49      "RFIDCard": "20",
50      "Tempvalid": 0,
51      "CustomizeID": 0,
52      "PersonUUID": " ",
53      "validBegin": "0000-00-00T00:00:00",
54      "validEnd": "0000-00-00T00:00:00"
55    },
56    {
57      "LibID": 2,
58      "PersonType": 0,
59      "Name": "example63",
60      "Gender": 1,
61      "Nation": 1,
62      "CardType": 0,
63      "IdCard": " ",
64      "Birthday": "1970-01-01",
65      "Telnum": " ",
66      "Native": " ",
```

```

67         "Address": " ",
68         "Notes": " ",
69         "MjCardFrom": 0,
70         "strategyNum": 0,
71         "strategyID": [],
72         "MjCardNo": 1,
73         "RFIDCard": "0",
74         "Tempvalid": 0,
75         "CustomizeID": 0,
76         "PersonUUID": " ",
77         "validBegin": "0000-00-00T00:00:00",
78         "validEnd": "0000-00-00T00:00:00"
79     }
80 ]
81 }
82 }
```

3.7 Control Log Inquiry

Control record query mainly includes querying the total number of control records and querying the control record personnel information.

3.7.1 The Total Number of Control Log Queried

1. Description

Total number of control log queried.

2. API Description

Items	Description
Operator	SearchControlNum
Request URL	<a href="http://<server_ipaddr>/action/SearchControlNum">http://<server_ipaddr>/action/SearchControlNum (Where <server_ipaddr> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: optional is optional):

Key	Type	Values	Description
operator	string	SearchControlNum	Total number of control log according to conditions
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
SearchType	int (optional)	0~1	Search type 0: Search according to the conditions (name, time and other conditions, take the concatenation that meets each condition). 1: Search according to the ID + time Default to search according to conditions without setting this field
IdType	int	0~2	This field is valid when SearchType = 1. Required if SearchType = 1, i.e., search by ID + time. 0:CustomizeID 1:LibID 2:PersonUUID
CustomizeID	unsigned int Required if IdType=0		This field is valid when SearchType = 1 User-defined ID
LibID	unsigned int Required if IdType = 1		This field is valid when SearchType = 1 List database ID (not the control log database ID, if it is equal to 0 it means this data is a control log generated before this list was deleted)
PersonUUID	string Required if IdType = 2		This field is valid when SearchType = 1 UUID of the list database (no more than 48 bytes)

Key	Type	Values	Description
Name	string (optional)		<p>This field is valid when SearchType = 0</p> <p>Name (according to the name search, the default does not judge the conditions of the conditions of the search); if you are looking for remote door opening control records, please enter "Remote door open"</p>
MjCardNo	unsigned int (optional)		<p>This field is valid when SearchType = 0</p> <p>Access card number</p> <p>Default 0</p>
Gender	int (optional)	0~2	<p>This field is valid when SearchType = 0</p> <p>Genders</p> <p>0:Male 1:Female 2>All</p> <p>Not setting this field defaults to 2</p>
OpenDoor	int (optional)	0~2	<p>0: All 1: Open door 2: Rejection ,</p> <p>Not setting this field defaults to 0</p>
BeginTime	string		Search starting time , mandatory field
EndTime	string		Search ending time , mandatory field
Age	string (optional)		<p>Age range</p> <p>e.g.1-100 , Not setting this field defaults to 1-200</p>

4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/SearchControlNum
2 Content of the request:
3
4 Search according to the ID + time
5 {
6     "operator": "SearchControlNum",
7     "info": {
8         "DeviceID": 1743726,
9         "SearchType": 1,
10        "IdType": 1,
11        "LibID": 1,
12        "BeginTime": "2020-01-01T00:00:00",
13        "EndTime": "2022-12-21T23:09:00"
14    }
15 }
16
17 Search according to the conditions (name, time and genders):
18 {

```

```

19     "operator": "SearchControlNum",
20     "info": {
21         "DeviceID": 1743726,
22         "SearchType": 0,
23         "Name": "test",
24         "Gender": 2,
25         "BeginTime": "2020-01-01T00:00:00",
26         "EndTime": "2023-12-21T23:09:00"
27     }
28 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: optional is optional):

Key	Type	Values	Description
operator	string	SearchControlNum	Query the total number of control log according to the conditions
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
ControlNum	int		Returns the total number of control log by time condition
code	int		Command execution error code 200-successes, see also 7.30 The Total Number of Control Log Queried Error Codes
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```

1  {
2     "operator": "SearchControlNum",
3     "info": {
4         "DeviceID": 1743726,
5         "ControlNum": 4
6     }
7 }
```

3.7.2 Control Log Personnel Information Queries

1. Description

Queries control log personnel information based on search criteria.

2. API Description

Items	Description
Operator	SearchControl
Request URL	<code>http://<server_ipaddr>/action/searchControl</code> (Where <code><server_ipaddr></code> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: optional is optional):

Key	Type	Values	Description
operator	string	SearchControl	Queries control log personnel information based on search criteria.
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
SearchType	int (optional)	0~1	Search type 0: Search according to the conditions (name, time and other conditions, take the concatenation that meets each condition). 1: Search according to the ID + time Default to search according to conditions without setting this field
IdType	int	0~2	This field is valid when SearchType = 1. Required if SearchType = 1, i.e., search by ID + time. 0:CustomizeID 1:LibID 2:PersonUUID
CustomizeID	unsigned int Must be filled in when IdType=0		This field is valid when SearchType = 1 User-defined ID
LibID	unsigned int Must be filled in when IdType=1		This field is valid when SearchType = 1 List database ID (not the control log database ID, if it is equal to 0 it means this data is a control log generated before this list was deleted)
PersonUUID	string Must be filled in when IdType=2		This field is valid when SearchType = 1 UUID of the list database (no more than 48 bytes)

Key	Type	Values	Description
Name	string (optional)		<p>This field is valid when SearchType = 0</p> <p>Name (according to the name search, the default does not judge the conditions of the conditions of the search); if you are looking for remote door opening control records, please enter "Remote door open"</p>
MjCardNo	unsigned int (optional)		<p>This field is valid when SearchType = 0</p> <p>Access card number</p> <p>Default 0</p>
Gender	int (optional)	0~2	<p>This field is valid when SearchType = 0</p> <p>Genders</p> <p>0:Male 1:Female 2>All</p> <p>Not setting this field defaults to 2</p>
OpenDoor	int (optional)	0~2	<p>0: All 1: Open door 2: Rejection</p> <p>Not setting this field defaults to 0</p>
BeginTime	string		Search starting time , mandatory field
EndTime	string		Search ending time , mandatory field
Ascending	int (optional)	0~1(Default 0)	<p>Search results in ascending or descending order</p> <p>0:ascending (results moved backward from search start time)</p> <p>1:descending (results moved forward from search end time)</p>
Age	string (optional)		<p>Age range</p> <p>e.g.1-100 , Not setting this field defaults to 1-200</p>
BeginNO	int (optional)		<p>Starting number of the return</p> <p>No setting defaults to start at 0</p>
RequestCount	int (optional)	0~100	<p>Number of log returned</p> <p>Maximum return of 100 items, no setting default maximum return of 20 items</p>
Picture	int (optional)	0~3	<p>Whether to include images</p> <p>0:Not include images</p> <p>1:Include registered images</p> <p>2:Include captured images</p> <p>3:Include registered+captured images</p> <p>Default is 0</p>

4. Example of Request Message

```
1 URL of the request:http://192.168.2.10/action/SearchControl
2 Content of the request:
3
4 Search according to the conditions:
5 {
6     "operator": "SearchControl",
7     "info": {
8         "DeviceID": 1743726,
9         "SearchType": 0,
10        "Name": "test_example",
11        "MjCardNo": 1,
12        "Gender": 1,
13        "Ascending": 1,
14        "BeginTime": "2018-11-13T00:00:00",
15        "EndTime": "2023-12-21T23:59:59",
16        "Picture": 0,
17        "RequestCount": 20
18    }
19 }
20
21 Search according to the ID + time
22 {
23     "operator": "SearchControl",
24     "info": {
25         "DeviceID": 1743726,
26         "SearchType": 1,
27         "IdType": 1,
28         "LibID": 67,
29         "Ascending": 1,
30         "BeginTime": "2018-11-13T00:00:00",
31         "EndTime": "2023-12-21T23:59:59",
32         "BeginNO": 1,
33         "Picture": 0,
34         "RequestCount": 20
35     }
36 }
```

5. Explanation of the Paragraph of the Reply Message

Key	Type	Values	Description
operator	string	SearchControl	Queries control log personnel information based on search criteria.
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated
ControlNum	int		Total number of eligible logs in the control log database
TotalNum	int	0~100	Return the number of control logs, the maximum return 100, do not set the default maximum return 20
SearchInfo	json array		Back to search results (list)
LibID	int		Database ID of the control log
VerfyType	int	1:Universal model 1~3 or 21~22 or 24~25 or 27 ; 2:Special model: Support for mask detection or () operation 0x100 indicates a pass with mask detection; Supports body temperature detection or () operation 0x200 indicates a pass with temperature detection ;	Authentication Type 1: Whitelist Verification 2: ID Verification 3: Whitelist + ID Verification 21:RF Card Verification(Built-in card swiping model) 22:RF Card Verification + Whitelist Verification(Built-in card swiping model) 24:Wergand Card Verification 25. Wigand Card + Whitelist Verification 27:HTTP Remote Door Opening

Key	Type	Values	Description
		<p style="color: red;">Support mask + body temperature detection</p> <p>Or () operation 0x300 means with mask + temperature detection pass; e.g.Masks + whitelist verification (0x101) Body Temperature + Whitelist Verification (0x201) Mask + Body Temperature + Wiegand Swipe + Whitelist Verification (0x319)</p>	
PersonType	int		List Type 0: White list 1: Black list
Name	string		Name Maximum length 32 character length (including terminator)
Gender	int	0~2	Genders 0: Male 1: Female 2: All
Nation	int		Nation
IdCard	string		ID Number
Birthday	string		Birthday

Key	Type	Values	Description
Telnum	string		Telephone Number
Native	string		Native
Address	string		Address
CustomizedID	unsigned int		User-defined ID
PersonUUID	string		User-defined Uuid
MjCardFrom	int	0~3	<p>Wiegand Card Number Generation Method 0: public number 1: automatic generation 2: manual input 3: do not use access card numbers</p>
MjCardNo	unsigned int		<p>Wiegand access card number (userid) When Wiegand=4 or 5 or 6 or 7 in 6.1 Door Opening Conditions and Output Control Parameters and the WGFacilityCode field together form the Wiegand Card Number When Wiegand=0 or 1, alone constitutes a Wiegand card number. See 3.1.6 Wiegand Access Card Number and Built-in Swipe ID Card Number</p>
WGFacilityCode	int (optional)		<p>Facility code When Wiegand=4 or 5 or 6 or 7 in 6.1 Door Opening Conditions and Output Control Parameters and the MjCardNo field together form the Wiegand card number When Wiegand=0 or 1, this parameter has no practical meaning. See 3.1.6 Wiegand Access Card Number and Built-in Swipe ID Card Number</p>
RFIDCard	string (optional)		<p>ID Card Number Maximum length is 18 characters,for built-in card machine type(including terminator). See 3.1.6 Wiegand Access Card Number and Built-in Swipe ID Card Number</p>

Key	Type	Values	Description
Temperature	double (optional)	37.20	Detecting face temperature in real time, returning to detect temperature only when FaceMaskTPMode=1, 4, 5 mode in 6.15 Temperature Parameters (Temperature detection machine version support)
TemperatureAlarm	int (optional)	0~1	Real-time detection of whether the face temperature exceeds the threshold (Temperature detection machine version support) 0:not exceeded 1:exceeded
TemperatureMode	int (optional)	0~1	Temperature Display Mode 0: Celsius 1: Fahrenheit
Time	string		Certification Passing Time
VerifyStatus	string	0~2	Personnel access status 0:None 1:Allowed 2:Denied
Similarity	float		Similarity
RegPicinfo	string (optional)		Register the base64 encoding of the image
SnapPicinfo	string (optional)		Base64 encoding of captured images
RemoteOpenDoor	int (optional)	1	If it is an open door control record for a call to 5.3 Remote Open Door , return this identifier
code	int		Command execution error code:200-successes,see also 7.31 Control Log Personnel Information Queries Error Codes
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```

1 | Search according to the conditions: (SearchType = 0)
2 | {
3 |     "operator": "SearchControl",

```

```
4 "info": {
5     "DeviceID": 1743726,
6     "ControlNum": 4,
7     "TotalNum": 4,
8     "SearchInfo": [
9         {
10            "LibID": 1,
11            "VerfyType": 1,
12            "PersonType": 0,
13            "Name": "test_example",
14            "Gender": 0,
15            "Nation": 1,
16            "IdCard": " ",
17            "Birthday": "2000-01-01",
18            "Telnum": " ",
19            "Native": " ",
20            "Address": " ",
21            "CustomizeID": 0,
22            "PersonUUID": " ",
23            "MjCardFrom": 0,
24            "MjCardNo": 1,
25            "RFIDCard": "0",
26            "VerifyStatus": 1,
27            "Similarity": 95.2,
28            "Time": "2022-12-20T09:51:00"
29        },
30        ...
31        ...
32    {
33        "LibID": 1,
34        "VerfyType": 1,
35        "PersonType": 0,
36        "Name": "test_example",
37        "Gender": 0,
38        "Nation": 1,
39        "IdCard": " ",
40        "Birthday": "2000-01-01",
41        "Telnum": " ",
42        "Native": " ",
43        "Address": " ",
44        "CustomizeID": 0,
45        "PersonUUID": " ",
46        "MjCardFrom": 0,
47        "MjCardNo": 1,
48        "RFIDCard": "0",
49        "VerifyStatus": 1,
50        "Similarity": 93.6,
51        "Time": "2022-12-20T16:54:41"
52    }
53]
```

```

54    }
55  }
56
57 Search according to the ID + time(SearchType = 1)
58 {
59     "operator": "SearchControl",
60     "info": {
61         "DeviceID": 1743726,
62         "LibID": 67,
63         "VerifyType": 1,
64         "PersonType": 0,
65         "Name": "xtc",
66         "Gender": 0,
67         "Nation": 1,
68         "IdCard": " ",
69         "Birthday": "2000-01-01",
70         "Telnum": " ",
71         "Native": " ",
72         "Address": " ",
73         "CustomizeID": 0,
74         "PersonUUID": " ",
75         "MjCardFrom": 0,
76         "MjCardNo": 1,
77         "RFIDCard": "0",
78         "TotalNum": 2,
79         "SearchInfo": [
80             {
81                 "VerifyStatus": 1,
82                 "Similarity": 94.8,
83                 "Time": "2022-12-30T18:05:00"
84             },
85             {
86                 "VerifyStatus": 1,
87                 "Similarity": 96.8,
88                 "Time": "2022-12-30T18:04:21"
89             }
90         ]
91     }
92 }

```

3.8 Capture Log Inquiry

Capture log query is about strangers capture log query, if it is the pass comparison of the personnel information is not stored in the capture log; capture log query mainly includes the total number of capture log query and capture log information query.

3.8.1 Search for the Total Number of Captured Logs

1. Description

Queries the total number of captured logs according to time conditions.

2. API Description

Items	Description
Operator	SearchCaptureNum
Request URL	<code>http://<server_ipaddr>/action/searchCaptureNum</code> (Where <code><server_ipaddr></code> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information (Note: `optional` is optional):

Key	Type	Values	Description
operator	string	SearchCaptureNum	Queries the total number of captured logs according to time conditions.
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
BeginTime	string		Search starting time , mandatory field
EndTime	string		Search ending time , mandatory field

4. Example of Request Message

```
1 URL of the request:http://192.168.2.10/action/SearchCaptureNum
2 Content of the request:
3 {
4     "operator": "SearchCaptureNum",
5     "info": {
6         "DeviceID": 1743726,
7         "BeginTime": "2020-01-01T00:00:00",
8         "EndTime": "2022-12-21T23:09:00"
9     }
10 }
```

5. Explanation of the Paragraph of the Reply Message

Returned parameter information.

Key	Type	Values	Description
operator	string	SearchCaptureNum	Queries the total number of log captured according to time conditions.
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated
CaptureNum	int		Returns the total number of captured logs by time condition
code	int		Command execution error code:200-successes, see also 7.32 Search for the Total Number of Captured Logs Error Codes
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```

1  {
2      "operator": "SearchCaptureNum",
3      "info": {
4          "DeviceID": 1743726,
5          "CaptureNum": 14
6      }
7  }

```

3.8.2 Capture Log Personnel Information Query

1. Description

Query the information of the person who caught the log according to the conditions

2. API Description

Items	Description
Operator	SearchCapture
Request URL	<code>http://<server ipaddr>/action/searchcapture</code> (Where <code><server ipaddr></code> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information (Note: `optional` is optional):

Key	Type	Values	Description
operator	string	SearchCapture	Query the information of the person who caught the log according to the conditions
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
BeginTime	string		Search starting time , mandatory field
EndTime	string		Search ending time , mandatory field
Ascending	int (optional)	0~1(Default 0)	Search results in ascending or descending order 0:ascending (results moved backward from search start time) 1:descending (results moved forward from search end time)
BeginNO	int (optional)		Starting number of the return No setting defaults to start at 0
RequestCount	int (optional)	0~100	Number of log returned Maximum return of 100 items, no setting default maximum return of 15 items

4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/SearchCapture
2 Content of the request:
3
4 Search by time:
5 {
6     "operator": "SearchCapture",
7     "info": {
8         "DeviceID": 1743726,
9         "BeginTime": "2020-01-13T00:00:00",
10        "EndTime": "2022-12-21T23:59:59"
11    }
12 }
13
14 Limit the number of captured logs returned:
15 {
16     "operator": "SearchCapture",
17     "info": {
18         "DeviceID": 1743726,
19         "BeginTime": "2020-01-01T00:00:00",

```

```
20         "EndTime": "2022-12-21T23:59:59",
21         "RequestCount": 10
22     }
23 }
24
25 Limit the number of captured logs returned and the starting position:
26 {
27     "operator": "SearchCapture",
28     "info": {
29         "DeviceID": 1743726,
30         "BeginTime": "2020-01-01T00:00:00",
31         "EndTime": "2022-12-21T23:59:59",
32         "BeginNO": 5,
33         "RequestCount": 10
34     }
35 }
```

5. Explanation of the Paragraph of the Reply Message

Key	Type	Values	Description
operator	string	SearchCapture	Query the information of the person who caught the log according to the conditions
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated
CaptureNum	int		Returns the total number of captured logs by time condition
Listnum	int (optional)		Number of captured logs returned by querying according to conditions
List	Array		Capture log information array
LibSnapID	int		Capture database ID of the returned capture logs information
CreateTime	string	YYYY-MM-DDThh:mm:ss	Recording time
Temperature	double (optional)	37.20	Detecting face temperature in real time, returning to detect temperature only when FaceMaskTPTMode=1, 4, 5 mode in 6.15 Temperature Parameters (Temperature detection machine version support)
TemperatureAlarm	int (optional)	0~1	Real-time detection of whether the face temperature exceeds the threshold (Temperature detection machine version support) 0:not exceeded 1:exceeded
TemperatureMode	int (optional)	0~1	Temperature Display Mode 0: Celsius 1: Fahrenheit
SnapPicinfo	string		Base64 encoding of captured images
code	int		Command execution error code 200-successes, see also 7.33 Capture Log Personnel Information Query Error Codes
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```
1  {
2      "operator": "SearchCapture",
3      "info": [
4          "DeviceID": 1305433,
5          "Listnum": 15,
6          "List": [
7              {
8                  "LibSnapID": 3303,
9                  "CreateTime": "2020-01-13T20:02:43",
10                 "SnapPicinfo": "data:image/jpeg;base64,Qk3m5.....
11             },
12             {
13                 "LibSnapID": 3302,
14                 "CreateTime": "2020-01-13T19:36:06",
15                 "SnapPicinfo": "data:image/jpeg;base64,Qk225QA.....
16             },
17             {
18                 "LibSnapID": 3301,
19                 "CreateTime": "2020-01-13T18:34:15",
20                 "SnapPicinfo": "data:image/jpeg;base64,Qk225.....
21             },
22             .....
23             {
24                 "LibSnapID": 3289,
25                 "CreateTime": "2020-01-13T16:31:26",
26                 "SnapPicinfo": "data:image/jpeg;base64,Qk22.....
27             }
28         ]
29     }
30 }
```

3.9 Access Strategy

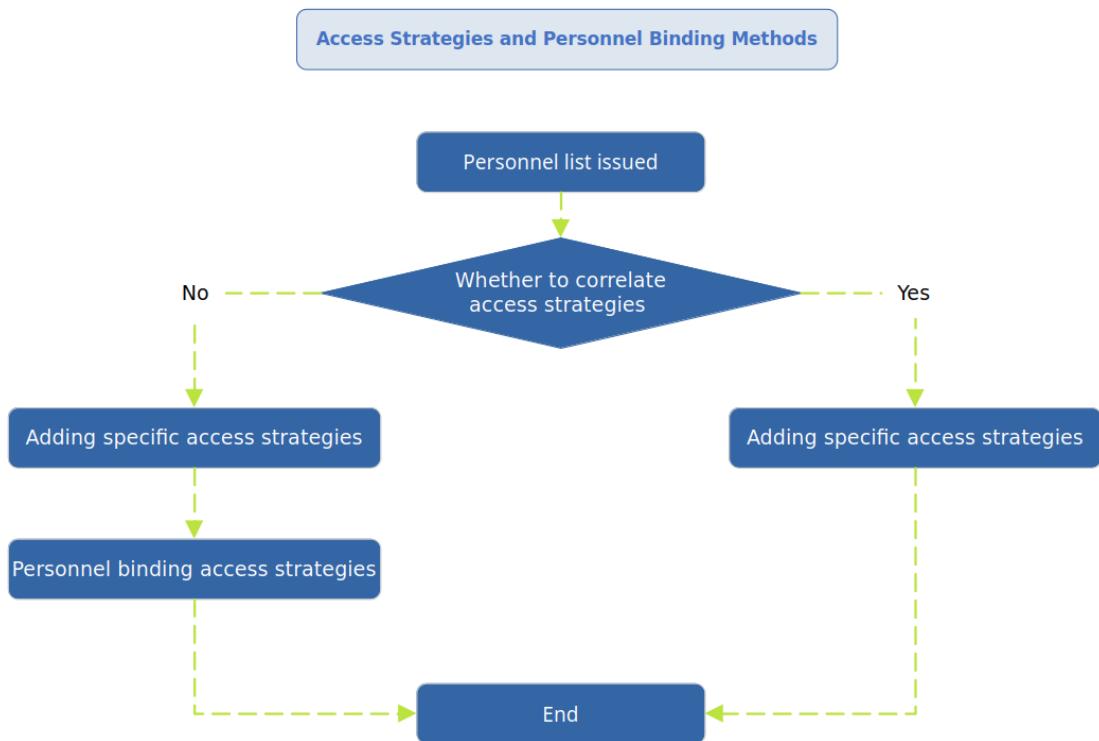
Since the access time rules of the temporary list in the personnel list type can't satisfy the multiple time periods to control the access of personnel, this interface is developed to satisfy the time periods to control the access of personnel through the access strategy.

3.9. Access Strategy Rules

1. Each strategy is identified by a strategy ID (hereinafter referred to as `strategyID`), and each strategy consists of two parts, the regular strategy time (Monday to Sunday) and the holiday strategy time. 2.
2. Regular strategy time can be set for more than one time slot per day, for example: Monday can be set for more than one time slot
3. Holiday strategy time only supports adding one corresponding time slot, if there are more than one time slots for the same holiday, then you need to add more holidays.

4. The access strategy for the passable time period settings, if it is prohibited to pass the time, you need to take the passable time period of the opposite time, assuming that the passable time period of 9:00-18:00, if you want to prohibit the passage of time is also 9:00-18:00, issued to the face of the machine can be set for the passable time period for the 00:00-08:59 and 18:00-23:59.
5. The passable time period for the passable time period can be set. The personnel outside of the access strategy time policy will be restored to the passable state by default, assuming the expiration date of passable 2020-12-29T23:59:59, then the personnel bound to this strategy after this time will be restored to the passable state.
6. Restoring the factory operation by checking the Restore Personnel List will delete all the information of the access strategy.
7. A personnel list can be bound to more than one access strategy, and the final passable The time period is the concatenation of the time periods of multiple access strategy.
8. Try to use permanent lists for the issued list types, and then bind the access strategy, do not issue temporary lists and use the access strategy at the same time.

3.9.2 Access Strategies and Personnel Binding Methods



Here are two ways to bind a access strategy to a person, as shown above.

Mode 1: When issuing the personnel list, directly bring the corresponding associated access strategy information, and then add the corresponding access strategy information.

Mode 2: The list of personnel is issued without the corresponding associated access strategy information, then add the corresponding access strategy information, and finally bind the list of personnel to the corresponding access strategy through the personnel binding access strategy interface.

3.9.3 Add/Modify Access Strategies

1. Description

Each access strategy will be uniquely identified with a `strategyID`, and a non-existing `strategyID` will be considered as adding a corresponding access strategy, while an existing `strategyID` will be considered as modifying the corresponding access strategy. Assuming that Wednesday is not available all day, the `wednesday` keyword will not be passed, and All-in-One machines passing the corresponding keyword without a time will set the default pass time.

2. API Description

Items	Description
Operator	<code>AddAccessStrategy</code>
Request URL	<code>http://<server_ipaddr>/action/AddAccessStrategy</code> (Where <code><server_ipaddr></code> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

Key	Type	Values	Description
operator		AddAccessStrategy	Add/modify access strategies
info			Specific Information Structures
strategyID	Int	1~N	Access strategy ID
strategyName	String (optional)		Access strategy name (64 bytes including terminator)
accessNumLimit	Int (optional)		Limitations on the number of passes 0:Unlimited number of passes (default) 1:Restrictions on the number of passes
allowCnt	Int (optional)		Number of passes Valid when accessNumLimit=1, required
startDate	String	YYYY-MM- DDThh:mm:ss (2020-01- 01T00:00:00)	Effective time of access strategy
endDate	String	YYYY-MM- DDThh:mm:ss (2020-12- 29T23:59:59)	Access strategy expiration time
monday	Array (optional)		Monday access strategy keywords
tuesday	Array (optional)		Tuesday access strategy keywords
wednesday	Array (optional)		Wednesday access strategy keywords
thursday	Array (optional)		Thursday access strategy keywords
friday	Array (optional)		Friday access strategy keywords
saturday	Array (optional)		Saturday access strategy keywords
sunday	Array (optional)		Sunday access strategy keywords
startTime	String	hh:mm:ss(08:00:00)	Multi-time period start time Default is (00:00:00)

Key	Type	Values	Description
endTime	String	hh:mm:ss(23:59:59)	Multi-time period end time Default is (23:59:59)
holidayInfo	String (optional)		Holiday information keywords
holidayStartDate	String (optional)	YYYY-MM- DDThh:mm:ss (2020-10- 1T00:00:00)	Holiday start time
holidayEndDate	String (optional)	YYYY-MM- DDThh:mm:ss (2020-10- 1T23:59:59)	Holiday end time
holidayPeriod	Array		Holiday multi-time period keywords (Currently one holiday corresponds to one time period)

4. Example of Request Message

```

1 URL of the request: http://172.168.5.106/action/AddAccessStrategy
2 Content of the request:
3 {
4     "operator": "AddAccessStrategy",
5     "info": {
6         "strategyID": 1,
7         "strategyName": "test1",
8         "accessNumLimit": 0,
9         "allowCnt": 0,
10        "startDate": "2020-01-01T08:12:10",
11        "endDate": "2023-12-09T08:08:12",
12        "monday": [
13            {
14                "endTime": "01:09:00",
15                "startTime": "00:00:00"
16            },
17            {
18                "endTime": "03:41:00",
19                "startTime": "02:02:00"
20            }
21        ],
22        "tuesday": [
23            {
24                "endTime": "08:59:00",
25                "startTime": "00:00:00"

```

```
26 },
27 {
28     "endTime": "10:20:00",
29     "startTime": "10:05:00"
30 }
31 ],
32 "wednesday": [
33 {
34     "endTime": "10:59:00",
35     "startTime": "00:00:00"
36 }
37 ],
38 "thursday": [
39 {
40     "endTime": "21:59:00",
41     "startTime": "00:00:00"
42 }
43 ],
44 "friday": [
45 {
46     "endTime": "08:59:00",
47     "startTime": "04:00:00"
48 }
49 ],
50 "sunday": [
51 {
52     "endTime": "15:46:00",
53     "startTime": "00:00:00"
54 }
55 ],
56 "holidayInfo": [
57 {
58     "holidayStartDate": "2020-10-10T00:00:00",
59     "holidayEndDate": "2020-10-10T23:00:00",
60     "holidayPeriod": [
61         {
62             "endTime": "12:43:00",
63             "startTime": "01:00:00"
64         }
65     ]
66 },
67 {
68     "holidayStartDate": "2020-10-10T00:00:00",
69     "holidayEndDate": "2020-10-10T23:59:59",
70     "holidayPeriod": [
71         {
72             "endTime": "23:45:07",
73             "startTime": "17:00:00"
74         }
75     ]
}
```

```

76         }
77     ]
78   }
79 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information (Note: `optional` is optional):

Key	Type	Values	Description
operator	string	AddAccessStrategy	Add/modify access strategies
info	JSON Object		Concrete content
code	int		Command execution error code: 200-successes, see also 7.46 Add/Modify Access Strategies Error Codes
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```

1  {
2    "operator": "AddAccessStrategy",
3    "code": 200,
4    "info": {
5      "Result": "ok"
6    }
7 }
```

3.9.4 Delete Access Strategies

1. Description

Deletes the access strategies corresponding to the specified `strategyID` and unbinds the deleted access strategies from the corresponding personnel.

2. API Description

Items	Description
Operator	DelAccessStrategy
Request URL	<code>http://<server ipaddr>/action/DelAccessStrategy</code> (Where <server ipaddr> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Key	Type	Values	Description
operator		DelAccessStrategy	Delete access strategies
info			Concrete content
strategyID	json array	1~N	Access strategy ID

4. Example of Request Message

```

1 URL of the request: http://172.168.5.106/action/DelAccessStrategy
2 Content of the request:
3 {
4     "operator": "DelAccessStrategy",
5     "info":
6     {
7         "strategyID": [1, 2]
8     }
9 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information (Note: `optional` is optional):

Key	Type	Values	Description
operator	string	DelAccessStrategy	Delete access strategies
info	JSON Object		Concrete content
code	int		Command execution error code 200-successes, see also 7.47 Delete Access Strategies Error Codes
delAccessStrategyErrNum	string	0~N	Number of failed deletions of access strategies
delAccessStrategyErrInfo	Array		Delete access strategies failure message keyword
delAccessStrategySucNum	string	0~N	Number of successful access strategies deletions
delAccessStrategySucInfo	Array		Delete access strategies success message keyword
JsonNum	string	0-N	strategyID index in Json array
strategyID	string	0-N	Access strategy ID
errcode	string		Error code
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```

1  {
2      "operator": "DelAccessStrategy",
3      "code": 200,
4      "info": {
5          "DeviceID": 1787156,
6          "delAccessStrategyErrNum": "0",
7          "delAccessStrategySucNum": "2",
8          "delAccessStrategyErrInfo": [],
9          "delAccessStrategySucInfo": [
10             {
11                 "JsonNum": "0",
12                 "strategyID": "1"
13             },

```

```

14     {
15         "JsonNum": "1",
16         "strategyID": "2"
17     }
18 ],
19 "Result": "OK"
20 }
21 }
```

3.9.5 Query All Access Strategies IDs and Names

1. Description

Queries all access strategies IDs in the device along with their names.

2. API Description

Items	Description
Operator	QueryAllStrategyID
Request URL	<code>http://<server ipaddr>/action/QueryAllstrategyID</code> (Where <server ipaddr> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator		QueryAllStrategyID	Query all access strategies IDs and names

4. Example of Request Message

```

1 URL of the request:http://172.168.5.106/action/QueryAllstrategyID
2 Content of the request:
3 {
4     "operator": "QueryAllStrategyID"
5 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information (Note: optional is optional):

Key	Type	Values	Description
operator	string	QueryAllStrategyID	Query all access strategies IDs and names
code	int		Command execution error code 200-successes, see also 7.48 Query All Access Strategy IDs and Names Error Codes
info	JSON Object		Concrete content
strategyNum	int	0~N	Number of access strategies
strategyInfo	Array		Access strategy information keyword (valid when StrategyNum>0)
strategyID	String	1~N	Access strategy ID
strategyName	String		Access strategy name
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```

1  {
2      "operator": "QueryAllStrategyID",
3      "code": 200,
4      "info": {
5          "DeviceID": 1787156,
6          "strategyNum": 2,
7          "strategyInfo": [
8              {
9                  "strategyID": "2",
10                 "strategyName": "test2"
11             },
12             {
13                 "strategyID": "1",
14                 "strategyName": "test1"
15             }
16         ],
17         "Result": "OK"
18     }
19 }
```

3.9.6 Query Access Strategy Details by Access Strategy ID

1. Description

Query access strategy details by access strategy ID.

2. API Description

Items	Description
Operator	AccessStrategyIDQueryStrategy
Request URL	<code>http://<server_ipaddr>/action/AccessStrategyIDQueryStrategy</code> (Where <server_ipaddr> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Key	Type	Values	Description
operator		AccessStrategyIDQueryStrategy	Query access strategy details by access strategy ID
info			Specific Information Structures
strategyID	json array	1~N	Access strategy ID

4. Example of Request Message

```
1 URL of the request: http://172.168.5.106/action/AccessStrategyIDQueryStrategy
2 Content of the request:
3 {
4     "operator": "AccessStrategyIDQueryStrategy",
5     "info": {
6         "strategyID": [1, 2]
7     }
8 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information (Note: optional is optional):

Key	Type	Values	Description
operator	string	AccessStrategyIDQueryStrategy	Query access strategy details by access strategy ID
info	JSON Object		Concrete content
code	int		Command execution error code 200-successes, see also 7.49 Query Access Strategy Details by Access Strategy ID Error Codes
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"
strategyNum	int	0~N	Number of access strategies
strategyInfo	Array		Access strategy information keyword (valid when strategyNum > 0)
strategyID	Int	1~N	Access strategy ID
strategyName	String (optional)		Access strategy name (64 bytes including terminator)
accessNumLimit	Int (optional)		Limitations on the number of passes 0:Unlimited number of passes (default) 1:Restrictions on the number of passes
allowCnt	Int (optional)		Number of passes Valid when accessNumLimit=1, required
startDate	String	YYYY-MM-DDThh:mm:ss (2020-01-01T00:00:00)	Effective time of access strategy
endDate	String	YYYY-MM-DDThh:mm:ss (2020-12-29T23:59:59)	Access strategy expiration time

Key	Type	Values	Description
monday	Array (optional)		Monday access strategy keywords
tuesday	Array (optional)		Tuesday access strategy keywords
wednesday	Array (optional)		Wednesday access strategy keywords
thursday	Array (optional)		Thursday access strategy keywords
friday	Array (optional)		Friday access strategy keywords
saturday	Array (optional)		Saturday access strategy keywords
sunday	Array (optional)		Sunday access strategy keywords
startTime	String	hh:mm:ss(08:00:00)	Multi-time period start time Default is (00:00:00)
endTime	String	hh:mm:ss(23:59:59)	Multi-time period end time Default is (23:59:59)
holidayInfo	String (optional)		Holiday information keywords
holidayStartDate	String (optional)	YYYY-MM-DDThh:mm:ss (2020-10-1T00:00:00)	Holiday start time
holidayEndDate	String (optional)	YYYY-MM-DDThh:mm:ss (2020-10-1T23:59:59)	Holiday end time
holidayPeriod	Array		Holiday multi-time period keywords (Currently one holiday corresponds to one time period)

Other fields describing the details of the access strategy can be found in [3.9.3 Add/Modify Access Strategies](#).

6. Example of Reply Message

```

1 | {
2 |   "operator": "AccessStrategyIDQueryStrategy",

```

```
3     "code": 200,
4     "info": {
5         "DeviceID": 1787156,
6         "strategyNum": 6,
7         "strategyInfo": [
8             {
9                 "strategyID": 1,
10                "strategyName": "test1",
11                "accessNumLimit": 0,
12                "allowCnt": 0,
13                "startDate": "2020-01-01T08:12:10",
14                "endDate": "2023-12-09T08:08:12",
15                "monday": [
16                    {
17                        "startTime": "00:00:00",
18                        "endTime": "01:09:00"
19                    },
20                    {
21                        "startTime": "02:02:00",
22                        "endTime": "03:41:00"
23                    }
24                ],
25                "wednesday": [
26                    {
27                        "startTime": "00:00:00",
28                        "endTime": "10:59:00"
29                    }
30                ],
31                "holidayInfo": [
32                    {
33                        "holidayStartDate": "2020-10-10T00:00:00",
34                        "holidayEndDate": "2020-10-10T23:00:00",
35                        "holidayPeriod": [
36                            {
37                                "startTime": "01:00:00",
38                                "endTime": "12:43:00"
39                            }
40                        ]
41                    },
42                    {
43                        "holidayStartDate": "2020-10-10T00:00:00",
44                        "holidayEndDate": "2020-10-10T23:59:59",
45                        "holidayPeriod": [
46                            {
47                                "startTime": "17:00:00",
48                                "endTime": "23:45:07"
49                            }
50                        ]
51                    }
52                ]
53            }
54        ]
55    }
56}
```

```
53     },
54     {
55         "strategyID": 2,
56         "strategyName": "test2",
57         "accessNumLimit": 0,
58         "allowCnt": 0,
59         "startDate": "2020-01-01T08:12:10",
60         "endDate": "2023-12-09T08:08:12",
61         "monday": [
62             {
63                 "startTime": "00:00:00",
64                 "endTime": "01:09:00"
65             },
66             {
67                 "startTime": "02:02:00",
68                 "endTime": "03:41:00"
69             }
70         ],
71         "tuesday": [
72             {
73                 "startTime": "00:00:00",
74                 "endTime": "08:59:00"
75             },
76             {
77                 "startTime": "10:05:00",
78                 "endTime": "10:20:00"
79             }
80         ],
81         "holidayInfo": [
82             {
83                 "holidayStartDate": "2020-10-10T00:00:00",
84                 "holidayEndDate": "2020-10-10T23:00:00",
85                 "holidayPeriod": [
86                     {
87                         "startTime": "01:00:00",
88                         "endTime": "12:43:00"
89                     }
90                 ]
91             },
92             {
93                 "holidayStartDate": "2020-10-10T00:00:00",
94                 "holidayEndDate": "2020-10-10T23:00:00",
95                 "holidayPeriod": [
96                     {
97                         "startTime": "00:00:00",
98                         "endTime": "18:43:00"
99                     }
100                ]
101            },
102            {
```

```

103         "holidayStartDate": "2020-10-10T00:00:00",
104         "holidayEndDate": "2020-10-10T23:59:59",
105         "holidayPeriod": [
106             {
107                 "startTime": "17:00:00",
108                 "endTime": "23:45:07"
109             }
110         ]
111     }
112 ]
113 }
114 ],
115 "Result": "OK"
116 }
117 }
```

3.9.7 Query All Associated Users by Access Strategy ID

1. Description

Query all associated users by access strategy ID.

2. API Description

Items	Description
Operator	AccessStrategyIDQueryPersons
Request URL	<a href="http://<server_ipaddr>/action/AccessStrategyIDQueryPersons">http://<server_ipaddr>/action/AccessStrategyIDQueryPersons (Where <server_ipaddr> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information (Note: `optional` is optional)

Key	Type	Values	Description
operator		AccessStrategyIDQueryPersons	Query all associated users by access strategy ID.
info			Specific Information Structures
strategyID	int	1~N	Access strategy ID

4. Example of Request Message

```

1  {
2      "operator": "AccessStrategyIDQueryPersons",
3      "info":
4      {
5          "strategyID":1
6      }
7  }

```

5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: optional is optional):

Key	Type	Values	Description
operator	string	AccessStrategyIDQueryPersons	Query all associated users by access strategy ID.
info	JSON Object		Concrete content
code	int		Command execution error code 200-successes, see also 7.50 Query All Associated Users by Access Strategy ID Error Codes
personNum	int	0~N	Number of people matching the access strategy
personInfo	json array		The json array of the queried person information
PersonUUID	String		PersonUUID is a unique identifier for the list of persons
CustomizeID	Int		CustomizeID is a unique identifier for the list of persons
name	string		Reserve
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```

1  {
2      "operator": "AccessStrategyIDQueryPersons",
3      "code": 200,
4      "info": {
5          "DeviceID": 1787156,

```

```

6      "personNum": 2,
7      "personInfo": [
8          {
9              "PersonUUID": "abcdfdfhFDH",
10             "CustomizeID": 1239562,
11             "name": "Reserved"
12         },
13         {
14             "PersonUUID": "edfhfsfh",
15             "CustomizeID": 123459,
16             "name": "Reserved"
17         }
18     ],
19     "Result": "OK"
20 }
21 }
```

3.9.8 Personnel Binding Access Strategy

1. Description

This interface is mainly to realize that when issuing personnel, you can not bind the personnel first, but only issue the personnel list information, and after the list is issued, you can bind the corresponding access strategy. However, it should be noted that the binding relationship between the access strategy information in the list distribution and the personnel list in this interface is **a full override operation**. For example, the first time the personnel is bound to the access strategy group 1 and group 2, the second time the personnel is bound to the access strategy group 1, then the final personnel is bound to the access strategy group 1 only. **Since there can be two fields in the HTTP protocol to identify a unique list, the PersonUUID and CustomizeID for all lists in the all-in-one can only be one or the other, not both.**

2. API Description

Items	Description
Operator	PersonsBindStrategyID
Request URL	<a href="http://<server_ipaddr>/action/PersonsBindStrategyID">http://<server_ipaddr>/action/PersonsBindStrategyID (Where <server_ipaddr> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Key	Type	Values	Description
operator		PersonsBindStrategyID	Personnel binding access strategy
info			Specific Information Structures
personsInfo	json array		People and strategy information keywords
PersonUUID	String		PersonUUID is a unique identifier for the list of persons (48 bytes or less, use either PersonUUID or CustomizedID, not both)
CustomizedID	Int		CustomizedID is a unique identifier for the list of persons (Use either PersonUUID or CustomizedID, not both)
strategyID	json array	1-N	Access strategy ID

4. Example of Request Message

```

1 URL of the request:http://172.168.5.106/action/PersonsBindStrategyID
2 Content of the request:
3 {
4     "operator": "PersonsBindStrategyID",
5     "info": {
6         "personsInfo": [
7             {
8                 "CustomizeID":123456,
9                 "strategyID": [1,2]
10            },
11            {
12                "CustomizeID":1239562,
13                "strategyID": [1]
14            }
15        ]
16    }
17 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: **optional** is optional):

Key	Type	Values	Description
operator	string	PersonsBindStrategyID	Personnel binding access strategy
info	JSON Object		Concrete content
code	int		Command execution error code 200-successes, see also 7.51 Personnel Binding Access Strategy Error Codes
bindErrNum	string	0~N	Number of failed personnel bind access strategy
bindErrInfo	Array		Personnel binding access strategy failure message keyword
bindSucNum	string	0~N	Number of successful personnel binding access strategy
bindSucInfo	Array		Personnel binding access strategy success message keyword
PersonUUID	String		PersonUUID is a unique identifier for the list of persons
CustomizeID	Int		CustomizeID is a unique identifier for the list of persons
strategyID	Array		Access strategy ID
errcode	String		Error code
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```

1 | {
2 |     "operator": "PersonsBindStrategyID",
3 |     "code": 200,
4 |     "info": {
5 |         "DeviceID": 1787156,
6 |         "bindErrNum": "0",
7 |         "bindSucNum": "2",
8 |         "bindErrInfo": [],
9 |         "bindSucInfo": [
10 |             {
11 |                 "CustomizeID":123456,

```

```

12         "strategyID": [
13             1,
14             2
15         ]
16     },
17     [
18         "CustomizeID": 1239562,
19         "strategyID": [
20             1
21         ]
22     }
23 ],
24     "Result": "OK"
25 }
26 }
```

3.9.9 Personnel Unbinding Access Strategy

1. Description

The Person Unbinding Access Strategy mainly implements the unbinding of a person from a access strategy, if this person is itself on a permanent list, then this person will become **passable**.

2. API Description

Items	Description
Operator	PersonsUnbindStrategyID
Request URL	<a href="http://<server_ipaddr>/action/PersonsUnbindStrategyID">http://<server_ipaddr>/action/PersonsUnbindStrategyID (Where <server_ipaddr> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information (Note: optional is optional)

Key	Type	Values	Description
operator		PersonsUnbindStrategyID	Personnel unbinding access strategy
info			Specific Information Structures
personsInfo	json array		People and strategy information keywords
PersonUUID	String		PersonUUID is a unique identifier for the list of persons (48 bytes or less, use either PersonUUID or CustomizedID, not both)
CustomizedID	Int		CustomizedID is a unique identifier for the list of persons (Use either PersonUUID or CustomizedID, not both)
strategyID	json array		Access strategy ID

4. Example of Request Message

```

1 URL of the request:http://172.168.5.106/action/PersonsUnbindstrategyID
2 Content of the request:
3 {
4     "operator": "PersonsUnbindStrategyID",
5     "info": {
6         "personsInfo": [
7             {
8                 "PersonUUID": "edfhfsfh",
9                 "strategyID": [
10                     1
11                 ]
12             },
13             {
14                 "PersonUUID": "1239562",
15                 "strategyID": [
16                     1,
17                     2
18                 ]
19             }
20         ]
21     }
22 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: `optional` is optional):

Key	Type	Values	Description
operator	string	PersonsUnbindStrategyID	Personnel unbinding access strategy
info	JSON Object		Concrete content
code	int		Command execution error code 200-successes, see also 7.52 Personnel Unbinding Access Strategy Error Codes
unBindErrNum	string	0~N	Number of failed personnel unbind access strategy
unBindErrInfo	Array		Personnel unbinding access strategy failure message keyword
unBindSucNum	string	0~N	Number of successful personnel unbinding access strategy
unBindSucInfo	Array		Personnel unbinding access strategy success message keyword
PersonUUID	String		PersonUUID is a unique identifier for the list of persons
CustomizeID	Int		CustomizeID is a unique identifier for the list of persons
strategyID	Array		Access strategy ID
errcode	String		Error code
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```

1  {
2      "operator": "PersonsUnbindstrategyID",
3      "code": 200,
4      "info": {
5          "DeviceID": 1787156,
6          "unBindErrNum": "0",
7          "unBindSucNum": "2",
8          "unBindErrInfo": [],
9          "unBindSucInfo": [

```

```

10    {
11        "PersonUUID": "edfhfsfh",
12        "strategyID": [
13            1
14        ]
15    },
16    {
17        "PersonUUID": "1239562",
18        "strategyID": [
19            1,
20            2
21        ]
22    }
23 ],
24 "Result": "OK"
25 }
26 }
```

3.9.10 Batch Downstream Access Strategy

1. Description

Enable batch add or modify access strategy time. (**Suggested bulk distribution of 100 items at a time**)

API Description

Items	Description
Operator	AddAccessStrategy
Request URL	<code>http://<server ipaddr>/action/AddAccessStrategys</code> (Where <code><server ipaddr></code> is the device IP, for example:192.168.1.10)Parameter information(Note: <code>Optional</code> is optional)

Key	Type	Values	Description
operator	String	AddAccessStrategys	Batch downstream access strategy
meessageld	String		Message id, used by the platform to distinguish each message.
facesluiceld	String (optional)		The clientID for connecting to the server, by default, the device ID/SN is used to ensure uniqueness.
bIsInt	int	0,1	Returns the answer data, whether the access strategy ID is a string or an int; 0-string; 1-int (default string, if this value is not passed)
info	Object		Concrete content
strategyID	int	1~N	Access strategy ID
strategyName	String (optional)		Access strategy name (64 bytes including terminator)
accessNumLimit	int		Limitations on the number of passes 0:Unlimited number of passes (default) 1:Restrictions on the number of passes
allowCnt	int (optional)		Number of passes(Reserved, not in force for the time being) Valid when accessNumLimit=1, required
startDate	String	YYYY-MM-DDTh h:mm:ss(2020-01-0 1T00:00:00)	Effective time of access strategy
endDate	String	YYYY-MM-DDTh h:mm:ss(2020-12-2 9T23:59:59)	Access strategy expiration time
monday	Array (optional)		Monday access strategy keywords
tuesday	Array (optional)		Tuesday access strategy keywords
wednesday	Array (optional)		Wednesday access strategy keywords
thursday	Array (optional)		Thursday access strategy keywords

Key	Type	Values	Description
friday	Array (optional)		Friday access strategy keywords
saturday	Array (optional)		Saturday access strategy keywords
sunday	Array (optional)		Sunday access strategy keywords
startTime	String	hh:mm:ss(08:00:00)	Multi-time period start time Default is (00:00:00)
endTime	String	hh:mm:ss(23:59:59)	Multi-time period end time Default is (23:59:59)
holidayInfo	Array		Holiday information keywords
holidayStartDate	String (optional)	YYYY-MM-DDTh h:mm:ss(2020-01-0 1T00:00:00)	Holiday start time
holidayEndDate	String (optional)	YYYY-MM-DDTh h:mm:ss(2020-12-2 9T23:59:59)	Holiday end time
holidayPeriod	Array		Holiday multi-time period keywords (Currently one holiday corresponds to one time period)

4.Example of adding/modifying access strategies from the platform

```

1  {
2      "operator": "AddAccessStrategys",
3      "info": [
4          {
5              "monday": [{"startTime": "15:00:00", "endTime": "21:00:00"},  

6                  {"startTime": "15:00:00", "endTime": "20:00:00"}],  

7                  "tuesday": [{"startTime": "05:00:00", "endTime": "07:00:00"},  

8                  {"startTime": "9:00:00", "endTime": "10:00:00"}],  

9                  "wednesday": [{"startTime": "12:00:00", "endTime": "16:00:00"},  

10                 {"startTime": "16:01:00", "endTime": "23:00:00"}],  

11                 "thursday": [{"startTime": "8:00:00", "endTime": "20:00:00"},  

12                 {"startTime": "08:30:00", "endTime": "20:00:00"}],  

13                 "friday": [{"startTime": "06:00:00", "endTime": "23:00:00"},  

14                 {"startTime": "13:00:00", "endTime": "14:00:00"}],  

15                 "saturday": [{"startTime": "01:00:00", "endTime": "23:00:00"},  

16                 {"startTime": "02:00:00", "endTime": "22:00:00"}],  

17                 "sunday": [{"startTime": "01:00:00", "endTime": "23:00:00"}],  

18             ]
19         }
20     }
21 
```

```

12         "holidayInfo": [
13             {"holidayStartDate": "2024-10-
10T00:00:00", "holidayEndDate": "2024-10-11T23:00:00", "holidayPeriod": [
14                 {"startTime": "01:00:00", "endTime": "12:43:00"}]}, {
15                 {"holidayStartDate": "2023-10-
10T00:00:00", "holidayEndDate": "2023-10-10T23:59:59", "holidayPeriod": [
16                     {"startTime": "09:00:00", "endTime": "23:45:00"}]}
17             ],
18             "bDisablePass": 0,
19             "nLevel": 1,
20             "strategyID": 75,
21             "strategyName": "xxx request leave of absence",
22             "startDate": "2023-01-01T00:00:00",
23             "endDate": "2099-01-01T23:59:59"
24         },
25     {
26         "monday": [{"startTime": "05:00:00", "endTime": "23:59:00"}, {
27             "startTime": "03:00:00", "endTime": "23:00:00"}],
28         "tuesday": [],
29         "wednesday": [{"startTime": "01:00", "endTime": "23:00"}],
30         "thursday": [], "friday": [], "saturday": [], "sunday": [],
31         "strategyName": "2",
32         "startDate": "2023-01-01T00:00:500", "endDate": "2099-01-01T23:59:59"
33     }
34 ]
35 }
```

5.Explanation of the Paragraph of the Reply Message

Parameter information (Note: `optional` is optional)

Key	Type	Values	Description
operator		AddAccessStrategies-Ack	Batch downstream access strategy reply
messageId	String		Message id, used by the platform to distinguish each message
code	String		Instruction execution error code 200-successes, see also 3.9.3 Add/Modify Access Strategies
info	Object		Concrete content
facesluiceld	String		The clientID for connecting to the server, by default, the device ID/SN is used to ensure uniqueness.
strategyID	String	1~N	Access strategy ID
AddErrNum	int		Number of failed add access strategies
AddSucNum	int		Number of successful add access strategies
AddErrInfo	Array		Add access strategies failure id data
AddSucInfo	Array		Add access strategies success id data
Result	String	"OK"/"fail"	Operating result
detail	String (optional)		Error message when Result is "Fail"

6.Example of Reply Message

```

1  {
2      "operator": "AddAccessStrategies",
3      "code": 200,
4      "info": {
5          "DeviceID": 1933458,
6          "AddErrNum": 0,
7          "AddSucNum": 2,
8          "AddErrInfo": [],
9          "AddSucInfo": [
10              75,
11              75
12          ],
13          "Result": "OK"
14      }
15 }
```

4、HTTP Subscription

The types of data subscription include: subscription of authentication result information, subscription of stranger capture, and so on. It is necessary to pay attention to whether the device is enabled to Continue Transmitting After Disconnection, and when it is enabled to Continue Transmitting After Disconnection, the platform needs to reply to the device in accordance with the format after receiving the reported data.

Continue Transmitting After Disconnection:

The authentication (control) logs and stranger capture logs generated by the device have the difference of enabling and disabling the function of Continue Transmitting After Disconnection in the reporting mode. The platform only needs to receive and process the data when the data is reported without enabling the function of Continue Transmitting After Disconnection, but there is a risk of data loss in case of network abnormality; when the data is reported with the function of Continue Transmitting After Disconnection enabled, the platform needs to reply to the device according to the following format within 10 seconds after receiving the data, and if there is no reply to the device or the reply to the device is incorrect, the Face Recognition All-in-One Machine will push the same record data all the time.

```
1 | {"code": 200, "desc": "OK"}
```

4.1 Reported information does not require authentication

1. Description

Set the HTTP subscription parameters, the types of subscription messages, the subscription address corresponding to each type of message, the heartbeat interval, and whether to enable the Continue Transmitting After Disconnection function. When the device reports data to the subscribed platform without authentication, the value of the "Auth" field in the request message is set to "none".

2. API Description

Items	Description
Operator	Subscribe
Request URL	<code>http://<server_ipaddr>/action/Subscribe</code> (Where <server_ipaddr> is the device IP, for example: 192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information (Note: optional is optional):

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

Key	Type	Values	Description
operator	string	Subscribe	News Subscription
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
Num	int	1~N	How many types of information to subscribe to
Topics	json array	"Snap", "Verify", "VerifyWithSnap", "VerifyWithReg", "VerifyNoPic", "QRCode", "WGCard", "Alarm", "IDCard"	A collection of single or multiple subscription message types (not exceeding 128 bytes), such as: ["Snap"] : Subscribe to real-time captured logs ["Verify"] : Subscription authentication result upload (with capture + registration image) ["VerifyWithSnap"] : Subscribe to authentication logs reporting (with snapshots only) ["VerifyWithReg"] : Subscription certification logs upload (with registration image only) ["VerifyNoPic"] : Subscription certification logs reporting (without images) ["QRCode"] : Subscribe to the QR code to report ["Snap", "Verify"]Subscribe to capture and authentication logs reporting ["IDCard"]Subscription to ID card information reporting ["WGCard"] : Wiegand swipe card information reporting ["Alarm"] : Alarm information reporting
SubscribeAddr	string	http://<Subscribe server ip>:port	Subscription address, including ip and port , e.g., http://192.168.2.1:8080

Key	Type	Values	Description
SubscribeUrl	json object		A collection of single or multiple reported URLs, including capture authentication result, heartbeat, QR code, IC card number authentication result (access control machine), password authentication result (access control machine), 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, in seconds, if not set, default 30 seconds
bTimedPush	int(optional)	0~1	Capture, authentication, QR code etc. are pushed to the server using timed push, which is not turned on by default. 0:Don't turn on timed push 1:Turn on timed push
PushInterval	int Required when bTimedPush=1		Timed push interval
Auth	string (optional)	"none" or "Basic"	Post Whether to authenticate when submitting reported information None : Authentication processing not required Basic : post Basic Authentication
User	string Required when Auth=Basic		User name, maximum length 64 character length (including terminator)

Key	Type	Values	Description
Pwd	string Required when Auth=Basic		Password, maximum length 64 character length (including terminator)
ResumefromBreakpoint	int	0~1	<p>Whether to enable Continue Transmitting After Disconnection (with Stranger Capture subscription or Authentication subscription mode enabled)</p> <p>0:Not enabled 1:Enabled.</p> <p>Don't enable the Continue Transmitting After Disconnection function, only ensure the push data, no need the server return.</p> <p>If the feature is enabled, the following json packets are required to be returned by the server for pushing the stranger capture and authentication information.</p> <pre>{ "code": 200, "desc": "OK", }</pre> <p>If the All-in-One machine does not receive the correct packet from the server after 10 seconds, it continues to push this message.</p>

Key	Type	Values	Description
BeginTime	string (optional)	YYYY-MM-DDThh:mm:ss	The default start time of the Continue Transmitting After Disconnection, you can not fill Default is the time to set up the stranger capture subscription or authentication subscription and enable Continue Transmitting After Disconnection function the stranger capture and authentication capture information before the breakpoint is pushed, this time will be changed to the time of completing the push of the Continue Transmitting After Disconnection.e.g., 2018-03-12T09:10:00

4. Example of Request Message

```

1 URL of the request:http://172.168.5.227/action/Subscribe
2 Content of the request:
3 {
4     "operator": "Subscribe",
5     "info": {
6         "DeviceID": 1743726,
7         "Num": 2,
8         "Topics": [
9             "Snap",
10            "Verify"
11        ],
12        "SubscribeAddr": "http://172.168.5.99:8080",
13        "SubscribeUrl": {
14            "Snap": "/Subscribe/Snap",
15            "Verify": "/Subscribe/Verify",
16            "HeartBeat": "/Subscribe/heartbeat"
17        },
18        "BeatInterval": 30,
19        "ResumefromBreakpoint": 0,
20        "Auth": "none"
21    }
22 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: optional is optional):

Key	Type	Values	Description
operator	string	Subscribe	Setting HTTP Subscription Parameters
info	JSON Object		Concrete content
code	int		Command execution error code:200-successes,see also 7.23 Setting HTTP Subscription Parameters Error Codes
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```

1  {
2      "operator": "Subscribe",
3      "code": 200,
4      "info": {
5          "Result": "ok"
6      }
7  }
```

4.2 Provide Username and Password, the Information Reported Needs to be Authenticated

1. Description

Set the HTTP subscription parameters, when the device reports data to the subscribed platform for authentication, the `Auth` field should be `Basic` (only Basic authentication method is supported at present), and you need to add `User` and `Pwd` fields in the request message.

2. API Description

Items	Description
Operator	<code>Subscribe</code>
Request URL	<code>http://<server_ipaddr>/action/subscribe</code> (Where <code><server_ipaddr></code> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

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

Key	Type	Values	Description
operator	string	Subscribe	News Subscription
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
Num	int	1~4	How many types of information to subscribe to
Topics	json array	"Snap", "Verify", "VerifyWithSnap", "VerifyWithReg", "VerifyNoPic", "QRCode", "WGCard", "Alarm", "IDCard"	A collection of single or multiple subscription message types (not exceeding 128 bytes), such as ["Snap"] : Subscribe to real-time captured logs ["Verify"] :Subscription authentication result upload (with capture + registration image) ["VerifyWithSnap"] : Subscribe to authentication logs reporting (with snapshots only) ["VerifyWithReg"] : Subscription certification logs upload (with registration image only) ["VerifyNoPic"] : Subscription certification logs reporting (without images) ["QRCode"] : Subscribe to the QR code to report ["Snap", "Verify"] : Subscribe to capture and authentication logs reporting ["IDCard"] : Subscription to ID card information reporting ["WGCard"] : Wiegand swipe card information reporting ["Alarm"] : Alarm information reporting
SubscribeAddr	string	http://<Subscribe server ip>:port	Subscription address, including ip and port , e.g., http://192.168.2.1:8080

Key	Type	Values	Description
SubscribeUrl	json object		A collection of single or multiple reported URLs, including capture authentication result, heartbeat, QR code, IC card number authentication result (access control machine), password authentication result (access control machine), 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, in seconds, if not set, default 30 seconds.
bTimedPush	int(optional)	0~1	Capture, authentication, QR code etc. are pushed to the server using timed push, which is not turned on by default. 0:Don't turn on timed push 1:Turn on timed push
PushInterval	int Required when bTimedPush=1		Timed push interval
Auth	string (optional)	"none" or "Basic"	Post Whether to authenticate when submitting reported information None : Authentication processing not required Basic : post Basic Authentication
User	string Required when Auth=Basic		User name, maximum length 64 character length (including terminator)

Key	Type	Values	Description
Pwd	string Required when Auth=Basic		Password, maximum length 64 character length (including terminator)
ResumefromBreakpoint	int	0~1	<p>Whether to enable Continue Transmitting After Disconnection (with Stranger Capture subscription or Authentication subscription mode enabled)</p> <p>0:Not enabled 1:Enabled.</p> <p>Don't enable the Continue Transmitting After Disconnection function, only ensure the push data, no need the server return.</p> <p>If the feature is enabled, the following json packets are required to be returned by the server for pushing the strange capture and authentication information.</p> <pre>{ "code": 200, "desc": "OK", }</pre> <p>If the All-in-One machine does not receive the correct packet from the server after 10 seconds, it continues to push this message.</p>

Key	Type	Values	Description
BeginTime	string (optional)	YYYY-MM-DDThh:mm:ss	The default start time of the Continue Transmitting After Disconnection , you can not fill Default is the time to set up the stranger capture subscription or authentication subscription and enable the Continue Transmitting After Disconnection function. If the stranger capture and authentication capture informatic before the breakpoint is pushed, this time will be changed to the time of completing the push of the Continue Transmitting After Disconnection . e.g., 2018-03-12T09:10:00

◀ ▶

4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/Subscribe
2 Content of the request:
3 {
4     "operator": "Subscribe",
5     "info": {
6         "DeviceID": 1743726,
7         "Num": 2,
8         "Topics": [
9             "Snap",
10            "Verify"
11        ],
12        "SubscribeAddr": "http://172.168.5.99:8080",
13        "SubscribeUrl": {
14            "Snap": "/Subscribe/Snap",
15            "Verify": "/Subscribe/Verify",
16            "HeartBeat": "/Subscribe/heartbeat"
17        },
18        "BeatInterval": 30,
19        "ResumefromBreakpoint": 0,
20        "Auth": "Basic",
21        "User": "admin",
22        "Pwd": "admin"
23    }
24 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information (Note: `optional` is optional):

Key	Type	Values	Description
operator	string	Subscribe	Setting HTTP Subscription Parameters
info	JSON Object		Concrete content
code	int		Command execution error code: 200-successes, see also 7.23 Setting HTTP Subscription Parameters Error Codes
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```
1 {  
2     "operator": "Subscribe",  
3     "code": 200,  
4     "info": {  
5         "Result": "ok"  
6     }  
7 }
```

4.3 Strangers Captured and Reported

1. Description

The capture logs of unregistered strangers in the device list or people whose comparison similarity does not reach the threshold value and are saved in the stranger capture logs of the device, turn on the HTTP stranger capture subscription function of the device, and the device will send the corresponding stranger capture log message to the subscribed URL.

Note: If the device has enabled the `Continue Transmitting After Disconnection` function, the subscription platform needs to reply to the data reported by the device, otherwise the device will send the same stranger capture log; refer to the description in the [4. HTTP Subscription Continue Transmitting After Disconnection](#) Function section for the introduction of the specific reply, and note that after the `Continue Transmitting After Disconnection` function is enabled, it is necessary to reply to all the stranger capture logs reported by the device.

2. Explanation of the Paragraph of the Uploaded Message

Parameter information:

Key	Type	Values	Description
operator	string	SnapPush	Stranger Snap Push
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
CreateTime	string	YYYY-MM-DDThh:mm:ss	Stranger capture recording time. e.g., 2018-03-25T21:50:05
PictureType	unsigned int	0~4	Capture face image type 0: Failed 1: Successful blacklisting 2: Successful whitelisting 3: Failed ID+Face Matching 4: Successful ID+Face Matching
isNoMask	int (optional)	0~2	Whether to wear a mask (Note: Mask model support) 0: Passage with mask 1: Passage without mask 2: Passage without mask (open door condition checkbox allows passage without mask)
Temperature	double (optional)	37.20	Real-time detection of face temperature, return to detect temperature only when the door opening mode with temperature detection mode (Temperature measurement model support)
TemperatureAlarm	int (optional)	0~1	Real-time detection of whether the face temperature exceeds the threshold value (Temperature measurement model support) 0: Not exceeded; 1: Exceeded
TemperatureMode	int (optional)	0~1	Temperature display mode (Temperature measurement model support) 0: Celsius temperature 1: Fahrenheit temperature

Key	Type	Values	Description
Sendintime	int	0~1	Whether information is pushed out in a timely manner 0:Failure to push in a timely manner (push time greater than 10 seconds from the time of capture) 1:Timely push
Direction	int	0~2	Entrance/Exit Direction 0:Unidirectional 1:Entrance 2:Exit
SanpPic	string		Base64 encoded data for face images captured by strangers

3. Example of Uploaded Message

```

1  {
2      "operator": "SnapPush",
3      "info": {
4          "DeviceID": 1743726,
5          "CreateTime": "2022-12-20T09:29:53",
6          "PictureType": 0,
7          "Sendintime": 1 ,
8          "Direction": 1
9      },
10     "SanpPic": "data:image/jpeg;base64,Qk2W5AA....."
11 }
```

4.4 Reporting of Certification Results

1. Description

When the device turns on authentication logs subscription, all personnel identification logs (control logs) generated are reported to the subscribed URL, control records include (but are not limited to)

- 1)Regular personnel identification logs
- 2)Control logs generated by remote door opening commands
- 3)Unauthorized access logs generated under a special version (access strategy)(“VerifyStatus”:24)
- 4)Logs of blacklisted denials of passage(“VerifyStatus”:2)

Note: If the device has enabled the `Continue Transmitting After Disconnection` function, the subscription platform needs to reply to the data reported by the device, otherwise the device will send the same stranger capture log; refer to the description in the [4. HTTP Subscription](#) `Continue Transmitting After Disconnection` Function section for the introduction of the specific reply, and note that after the `Continue Transmitting After Disconnection` function is enabled, it is necessary to reply to all the stranger capture logs reported by the device.

2. Explanation of the Paragraph of the Uploaded Message

Parameter information:

Key	Type	Values	Description
operator	string	VerifyPush	Reporting of certification results
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
PersonID	int		The device stores the ID number of the person, in the case of CustomizedID and PersonUUID is invalid, you can use this ID to modify the information of the list of people.
CreateTime	string	YYYY-MM-DDThh:mm:ss	Creation time of the control log. e.g., 2018-03-25T21:50:05
Similarity1	float	0.0~100.0	Black and white list comparison similarity
Similarity2	float	0.0~100.0	ID image comparison similarity
VerifyStatus	int	0~3 or 22、24	Authentication results 0: None 1: Allowed 2: Denied 3: Not yet registered 22:To be verified (control record for door opening method 3: face verification + remote door opening method) 24:No permission (control record for special version of non-pass time period)

Key	Type	Values	Description
VerfyType	int	<p>1:Universal model 1~3 or 21~22 or 24~25 or 27 ; 2:Special model: Support for mask detection or () operation 0x100 indicates a pass with mask detection; Supports body temperature detection or () operation 0x200 indicates a pass with temperature detection ; Support mask + body temperature detection Or () operation 0x300 means with mask + temperature detection pass; e.g.Masks + whitelist verification (0x101) Body Temperature + Whitelist Verification (0x201) Fingerprint support: Face+Fingerprint 60 Swipe Card + Fingerprint 61 Face+Swipe+Fingerprint 62 Fingerprint 65</p>	<p>Authentication Type 1: Whitelist Verification 2: ID Verification 3: Whitelist + ID Verification 21:RF Card Verification(Built-in card swiping model) 22:RF Card Verification + Whitelist Verification(Built-in card swiping model) 24:Wergand Card Verification 25. Wigan Card + Whitelist Verification 27:HTTP Remote Door Opening</p>
PersonType	int	0~1	<p>List Type 0: White list 1: Black list</p>
Name	string		<p>Name Maximum length 32 character length (including terminator)</p>

Key	Type	Values	Description
Gender	int	0~2	Genders 0: Male 1: Female 2: All
Nation	int	1~57	Native
CardType	int		ID type 0:ID
IdCard	string		ID number, maximum length 32 character length (including terminator)
Birthday	string	YYYY-MM-DD	Birthday , e.g., 2018-1-1
Telnum	string		Phone number, maximum length 32 characters long (including terminator)
Native	string		Native, maximum length 32 character length (including terminator)
Address	string		Address, maximum length 72 character length (including terminator)
Notes	string		Notes, maximum length 64 character length (including terminator)
MjCardFrom	int	0~3	Wiegand Card Number Generation Method 0: public number 1: automatic generation 2: manual input 3: do not use access card numbers

Key	Type	Values	Description
WGFacilityCode	int (optional)		<p>Facility code</p> <p>When Wiegand=4 or 5 or 6 or 7 in 6.1 Door Opening Conditions and Output Control Parameters and the MjCardNo field together form the Wiegand card number</p> <p>When Wiegand=0 or 1, this parameter has no practical meaning.</p> <p>See 3.1.6 Wiegand Access Card Number and Built-in Swipe ID Card Number</p>
MjCardNo	unsigned int		<p>Wiegand access card number (userid)</p> <p>When Wiegand=4 or 5 or 6 or 7 in 6.1 Door Opening Conditions and Output Control Parameters and the WGFacilityCode field together form the Wiegand Card Number</p> <p>When Wiegand=0 or 1, alone constitutes a Wiegand card number.</p> <p>See 3.1.6 Wiegand Access Card Number and Built-in Swipe ID Card Number</p>
RFIDCard	string (optional)		<p>ID Card Number</p> <p>Maximum length is 18 characters,for built-in card machine type(including terminator). See [3.1.6 Wiegand Access Card Number and Built-in Swipe ID Card Number](#316-Wiegand Access Card Number and Built-in Swipe ID Card Number)</p>

Key	Type	Values	Description
Tempvalid	int	0~1	<p>Is it a temporary list 0: Permanent list 1: Temporary list 1 (starting and ending time periods) 2: Temporary list 2 (daily time slots, supported by new database version) 3: Temporary list 3 (number of times valid, supported by new database version) 4: Temporary List 4 (a combination of Temporary List 2 and Temporary List 3, supported by the new database version and after neutral version 9.4)</p>
CustomizedID	unsigned int		<p>User-defined ID You can manage the corresponding personnel information such as modification and deletion by this ID number. Note: You can not use the same ID to add people repeatedly, otherwise it will lead to errors in modifying and deleting operations.</p>
PersonUUID	string		<p>User-defined UUID (not more than 48 bytes) This UUID number can be used to manage personnel information such as modification and deletion. Note: You can not use the same ID to add people repeatedly, otherwise it will lead to errors in operations such as modification and deletion</p>
ValidBegin	string	YYYY-MM-DDThh:mm:ss	In the case of Temporary List 1 or Temporary List 4, the start time of the entry into force of the Temporary List . e.g., 2018-03-12T09:09:20

Key	Type	Values	Description
ValidEnd	string	YYYY-MM-DDThh:mm:ss	In the case of Temporary List 1 or Temporary List 4, the end of the effective date of Temporary List . e.g., 2018-03-12T09:10:00
isNoMask	int	0~2	Whether to wear a mask (Note: Mask model support) 0:Passage with mask 1:Passage without mask 2:Passage without mask (open door condition checkbox allows passage without mask)
Temperature	double	37.20	Real-time detection of face temperature, return to detect temperature only when the door opening mode with temperature detection mode (Temperature measurement model support)
TemperatureAlarm	int	0~1	Real-time detection of whether the face temperature exceeds the threshold value (Temperature measurement model support) 0:Not exceeded; 1:Exceeded
Sendintime	int	0~1	Whether information is pushed in a timely manner 0:Not pushed in a timely manner (push time is greater than the authentication time by 10 seconds) 1:Pushed in a timely manner
Direction	int (optional)	0~2	Entrance/Exit Direction 0:Unidirectional 1:Entrance 2:Exit
SanpPic	string		Base64 encoded data for face images captured
RegisteredPic	string		Base64 encoded data of face images registered in the list library

Key	Type	Values	Description
PushType	int	0~2	Push type 0:Reserved 1:Reserved 2:Call 4.9 Manual Push Control Logging data return
OpendoorWay	int	0~3	Open the door 0:Face open the door 1:Remote open the door 2:Remote open the door or face 3:Local verification remote open the door (comparison verification by the local completion of the report, open the door by the remote decision)
szQrCodeData	string		QR code content
dwFileIndex	string	0-N	File index of image captured in control log
dwFilePos	string	0-N	Location of image captured in control log
SanpPic	string	base64	Snapshots image
RegisteredPic	string	base64	Registered image

3. Example of Uploaded Message

```

1  {
2      "operator": "verifyPush",
3      "info": {
4          "PersonID": 1,
5          "CreateTime": "2022-12-20T09:51:41",
6          "Similarity1": 96.065056,
7          "Similarity2": 0.000000,
8          "VerifyStatus": 1,
9          "VerfyType": 1,
10         "PersonType": 0,
11         "Name": "boy",
12         "Gender": 0,
13         "Nation": 1,
14         "CardType": 0,
15         "IdCard": " ",
16         "Birthday": "2000-01-01",
17         "Telnum": " ",
18         "Native": " "

```

```

19      "Address": " ",
20      "Notes": " ",
21      "MjCardFrom": 0,
22      "DeviceID": 1743726,
23      "PushType": 1,
24      "Opendoorway": 0,
25      "szQrCodeData": "",
26      "MjCardNo": "1",
27      "RFIDCard": "0",
28      "Tempvalid": 0,
29      "CustomizeID": 0,
30      "PersonUUID": " ",
31      "ValidBegin": "0000-00-00T00:00:00",
32      "ValidEnd": "0000-00-00T00:00:00",
33      "Sendintime": 1,
34      "Direction": 1
35    },
36    "dwFileIndex": "0",
37    "dwFilePos": "1114112",
38    "SanpPic":
39      "data:image/jpeg;base64,Qk324QAAA.....TC60TC7ujD80vF7+rE80rH7+nF7ej///",
40      "RegisteredPic":
41        "data:image/jpeg;base64,Qk2w5AA.....L2tKQ2M+M2M60OM19GM"
40  }

```

4.5 QR Code Reporting

1. Description

For face machines with external QR code readers or face machines with built-in QR code readers (**except for health code models**), after the device turns on the QR code subscription function, the device reports the QR code information to the subscribed URL.

2. Explanation of the Paragraph of the Uploaded Message

Parameter information:

Key	Type	Values	Description
operator	string	QRCodePush	QR code reporting
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
CreateTime	string	YYYY-MM-DDThh:mm:ss	QR code scanning time. e.g., 2018-03-25T21:50:05
QRcodeInfo	string		QR code content

3. Example of Uploaded Message

```
1 | {
2 |     "operator": "QRCodePush",
3 |     "info": {
4 |         "DeviceID":1300001,
5 |         "CreateTime":"2024-11-01T13:33:00",
6 |         "QRcodeInfo":"a1b2c.....1AS23dfw39"
7 |     }
8 | }
```

4.6 Reporting of Identity Card Information

1. Description

Face recognition machine in the ID card verification of the door opening mode, at the same time open the ID card information subscription function, each time to brush the ID card information will be reported to the subscription of the URL.

2. Explanation of the Paragraph of the Uploaded Message

Key	Type	Values	Description
operator	string	IDCardInfoPush	ID Information Push
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
IDCard_Idno	string		I.D. number
IDCard_Name	string		Name
IDCard_Gender	int		Genders
IDCard_Nation	int		nation
IDCard_Birthday	string		Birthday
IDCard_Address	string		Address
IDCard_Idissue	string		Issuing authority
IDCard_Idperiod	string		Validity period: Month/Year - Month/Year
IDCard_photo	string		Photo ID, base64 encoding

3. Example of Uploaded Message

```
1 | {
```

```

2   "operator": "IDCardInfoPush",
3   "info": {
4       "DeviceID": 1300001,
5       "IDCard_Idno": "1234567890",
6       "IDCard_Name": "AA",
7       "IDCard_Gender": 1,
8       "IDCard_Nation": 1,
9       "IDCard_Birthday": "2016-05-06",
10      "IDCard_Address": "xxxxx",
11      "IDCard_Idissue": "xxxxxx",
12      "IDCard_Idperiod": "20190203-20190304"
13  },
14  "IDCard_photo": "data:image/jpeg;base64,....."
15 }

```

4.7 IC Card/RFID Card Reporting

1. Description

Facial recognition all-in-one machine in the door opening mode with card authentication, at the same time open the RF card subscription function, each time the card number information will be swiped by the device will be reported to the subscription of the URL.

2. Explanation of the Paragraph of the Uploaded Message

Parameter information:

Built-in card model

Key	Type	Values	Description
operator	string	ICCardInfoPush	IC Card Number Information Push
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
ICCardNum	string		IC card number (not more than 24 bytes)

Non-built-in card model

Key	Type	Values	Description
operator	string	WGCardInfoPush	Wiegand Card Number Information Push
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
WGCard_Idno	string		Wiegand card number (not exceeding 24 bytes)

3. Example of Uploaded Message

Built-in card model

```

1  {
2      "operator": " ICCardInfoPush",
3      "info": {
4          "DeviceID":1300001,
5          "ICCardNum ":"....."
6      }
7  }
```

Non-built-in card model

```

1  {
2      "operator": " WGCardInfoPush",
3      "info": {
4          "DeviceID":1300001,
5          "WGCard_Idno ":"....."
6      }
7  }
```

4.8 Alarm Reporting

1. Description

When alarm subscription is enabled, the device reports alarm information to the corresponding URL.

2. Explanation of the Paragraph of the Uploaded Message

Parameter information:

Key	Type	Values	Description
operator	string	AlarmInfoPush	Alarm information reporting
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
code	int		Alarm Event Codes: 1: Door Magnetic Door Opening Timeout Alarm 2: Forced Door Opening Alarm 3: Takedown Alarm 4: Live Attack Alarm 5: Fire Alarm 6: Door Magnetic Status 7: Open Door Button 8: Open Door Chime
description	string(optional)		Alarm Event Description
event_time	long long		Event timestamp
status	int		Event status: Fire and tamper events:1-alarm status, 2-alarm canceled status, 3-alarm manually canceled status Open door events:1-open door timeout, 2-forced open door Door magnetic events:1-door magnetic alarm status, 2-door magnetic alarm canceled status
reserve	string(optional)		reserve

3. Example of Uploaded Message

```

1 Example of door magnetic status reporting.
2 {
3     "operator": "AlarmInfoPush",
4     "info": {
5         "code":6,
6         "description": "Magnetic door state",
7         "event_time":1620982161074,
8         "status":1,
9         "DeviceID":1478428,
10        "reserve": "reserve"
11    }
12 }
```

```

13
14 {
15     "operator": "AlarmInfoPush",
16     "info": {
17         "code":6,
18         "description": "Magnetic door state",
19         "event_time":1620982164375,
20         "status":2,
21         "DeviceID":1478428,
22         "reserve": "reserve"
23     }
24 }
25
26 Example of a dismantling alarm report.
27 {
28     "operator": "AlarmInfoPush",
29     "info": {
30         "code":3,
31         "description": "Tamper alarm",
32         "event_time":1620985255475,
33         "status":1,
34         "DeviceID":1478428,
35         "reserve": "reserve"
36     }
37 }
38
39 {
40     "operator": "AlarmInfoPush",
41     "info": {
42         "code":3,
43         "description": "Tamper alarm",
44         "event_time":1620985259137,
45         "status":2,
46         "DeviceID":1478428,
47         "reserve": "reserve"
48     }
49 }
```

4.9 Heartbeat Reporting

1. Description

The device gets the address, port and URL of the subscribed heartbeat from the subscription configuration information, the device sends the heartbeat information to the subscription address throughout the subscription validity period, the subscription server **needs to reply to the heartbeat** after receiving the heartbeat from the device to keep the two sides validly connected, once the heartbeat handshake fails, the device side **will try to reconnect to the subscription address after shutting**

down the connection, and the interval of the heartbeat is set at 30 seconds. The heartbeat **report needs to subscribe to any HTTP message (authentication subscription or stranger capture subscription, etc.), can not subscribe to a separate heartbeat.**

2. Explanation of the Paragraph of the Uploaded Message

Parameter information:

Key	Type	Values	Description
operator	string	HeartBeat	Heartbeat Information Reporting
info	json object		Concrete content
DeviceID	int		ID number of the device to be operated See 6.8.1 Getting Device Information
Ip	string		IP address of the device
MacAddr	string		Mac address of the device
Wifilp	string (optional)		IP address of the wifi (wifi needs to be configured)
Time	string	format:YYYY-MM-DDThh:mm:ss	The current time of the device. e.g.,2018-03-25T21:50:05

3. Example of Uploaded Message

```
1  {
2      "operator": "HeartBeat",
3      "info": {
4          "DeviceID": 1743726,
5          "Ip": "172.168.5.227",
6          "MacAddr": "5c:f2:86:89:3a:b1",
7          "Time": "2022-12-20T15:32:34"
8      }
9  }
```

4.10 Query Subscribed Information

1. Description

Queries the device's current HTTP subscription-related configuration information, including the type of subscription message, the IP address of the subscribing platform, the URL of each topic subscription, whether or not the `Continue Transmitting After Disconnection` function is enabled, whether or not authentication is enabled, and so on.

2. API Description

Items	Description
Operator	GetSubscribe
Request URL	<code>http://<server ipaddr>/action/GetSubscribe</code> (Where <server ipaddr> is the device IP, for example:192.168.1.10)

3. Example of Request Message

- ```

1 | URL of the request:http://192.168.2.10/action/GetSubscribe
2 | Content of the request: (空)

```

### 4. Explanation of the Paragraph of the Reply Message

Parameter information(Note: `optional` is optional):

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

| Key          | Type        | Values       | Description                                                                                    |
|--------------|-------------|--------------|------------------------------------------------------------------------------------------------|
| operator     | string      | GetSubscribe | Getting configuration information for a subscription                                           |
| info         | json object |              | Concrete content                                                                               |
| DeviceID     | int         |              | ID number of the device to be operated<br>See <a href="#">6.8.1 Getting Device Information</a> |
| ProtocolType | int         | 0~1          | HTTP protocol type:<br>0: LAN<br>1: WAN                                                        |
| Num          | int         | 1~4          | How many types of information to subscribe to                                                  |

| Key    | Type       | Values                                                                                                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topics | json array | "Snap", "Verify",<br>"VerifyWithSnap",<br>"VerifyWithReg",<br>"VerifyNoPic",<br>"QRCode",<br>"WGCard",<br>"Alarm",<br>"Card",<br>"PassWord" , "IDCard" | A collection of single or multi subscription message types exceeding 128 bytes), e.g.:<br>["Snap"] : subscribe to real-time snap upload<br>["Verify"] : subscribe to authentication result upload snap + registration image)<br>["VerifyWithSnap"] : subscribe authentication result upload snap image only)<br>["VerifyWithReg"] : subscribe authentication result report (registration image only)<br>["VerifyNoPic"] : subscribe authentication result report (image)<br>["QRCode"] : subscribe QR code report<br>["Snap", "Verify"] subscribe snap and authentication result report<br>["IDCard"] subscribe ID card information report<br>["WGCard"] : Wigan swipe card information report<br>["Alarm"] : Alarm information reporting<br>["Card"] subscription access control machine IC card authentication results reporting ( <b>12-inch access control machine models are valid</b> )<br>["PassWord"] subscription access control machine password authentication results reporting ( <b>12-inch access control machine models are valid</b> ) ["PassWord"] |

| Key           | Type                                                | Values                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------|-----------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SubscribeAddr | string                                              | http://< Subscribe server ip>:port | Subscription address, includ and port , e.g., <a href="http://192.168.80.80">http://192.168.80.80</a>                                                                                                                                                                                                                                                                                                                                      |
| SubscribeUrl  | json object                                         |                                    | A collection of single or mult reported URLs, including cap authentication result, heartbeat QR code, IC card number authentication result , password authentication result , and ID information.<br>e.g.,<br>{"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, in seconds<br>not set, default 30 seconds                                                                                                                                                                                                                                                                                                                                                                              |
| bTimedPush    | int(optional)                                       | 0~1                                | Capture, authentication, QR etc. are pushed to the server by timed push, which is not turned on by default.<br>0:Don't turn on timed push<br>1:Turn on timed push                                                                                                                                                                                                                                                                          |
| PushInterval  | int(optional)                                       |                                    | Timed push interval                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Auth          | string<br>(optional)                                | “none” or“Basic”                   | Post Whether to authenticate submitting reported information<br>None : Authentication process not required<br>Basic : post Basic Authentication                                                                                                                                                                                                                                                                                            |
| User          | string(optional)<br><b>Required when Auth=Basic</b> |                                    | User name, maximum length character length (including terminator)                                                                                                                                                                                                                                                                                                                                                                          |

| Key                  | Type                                                | Values | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------|-----------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pwd                  | string(optional)<br><b>Required when Auth=Basic</b> |        | Password, maximum length character length (including terminator)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ResumefromBreakpoint | int                                                 | 0~1    | <p>Whether to enable <a href="#">Continuing Transferring After Disconnection</a> (with Strange capture subscription or authentication subscription enabled)</p> <p>0:Not enabled<br/>1:Enabled.</p> <p>Don't enable <a href="#">Continue Transferring After Disconnection</a> function, or ensure the push data, no next server return.</p> <p>If the feature is enabled, the following json packets are required to be returned by the server pushing the strange capture authentication information.</p> <pre>{   "code": 200,   "desc": "OK", }</pre> <p><b>If the All-in-One machine does not receive the correct packet from the server after 10 seconds, it continues to print this message.</b></p> |

| Key       | Type   | Values              | Description                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|--------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BeginTime | string | YYYY-MM-DDThh:mm:ss | The default start time of the Continue Transmitting After Disconnection, you can not set up stranger capture subscription authentication subscription and enable the Continue Transmitting After Disconnection. If the stranger capture and authentication information before the break pushed, this time will be changed to the time of completing the of the Continue Transmitting After Disconnection.e.g. 03-12T09:10:00 |

## 5. Example of Reply Message

```

1 {
2 "operator": "GetSubscribe",
3 "info": {
4 "ProtocolType": 0,
5 "Num": 2,
6 "Topics": [
7 "Snap",
8 "Verify"
9],
10 "SubscribeAddr": "http://172.168.5.99:8080",
11 "Subscribeurl": {
12 "Snap": "/Subscribe/Snap",
13 "Verify": "/Subscribe/Verify",
14 "HeartBeat": "/Subscribe/heartbeat"
15 },
16 "BeatInterval": 30,
17 "ResumefromBreakpoint": 0,
18 "BeginTime": "2022-12-19T17:40:50",
19 "Auth": "none"
20 }
21 }
```

## 4.11 Unsubscribe

### 1. Description

Unsubscribe from topics, types include:Subscription for real-time capture information and subscription for authentication result information.

### 2. API Description

| Items       | Description                                                                                                                                        |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | <code>Unsubscribe</code>                                                                                                                           |
| Request URL | <code>http://&lt;server ipaddr&gt;/action/unsubscribe</code> (Where <code>&lt;server ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

### 3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

| Key      | Type        | Values                                                                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------|-------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| operator | string      | Unsubscribe                                                                                                                    | Unsubscribe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| info     | json object |                                                                                                                                | Concrete content                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| DeviceID | int         |                                                                                                                                | ID number of the device to be operated<br>See <a href="#">6.8.1 Getting Device Information</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Num      | int         | 1~2                                                                                                                            | How many types of information to unsubscribe to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Topics   | json array  | "Snap", "Verify",<br>"VerifyWithSnap",<br>"VerifyWithReg",<br>"VerifyNoPic",<br>"QRCode",<br>"WGCard",<br>"Alarm",<br>"IDCard" | A collection of single or multiple subscription message types (not exceeding 128 bytes), e.g.:<br>["Snap"] : subscribe to real-time snap upload<br>["Verify"] : subscribe to authentication result upload (with snap + registration image)<br>["VerifyWithSnap"] : subscribe to authentication result upload (with snap image only)<br>["VerifyWithReg"] : subscribe to authentication result report (with registration image only)<br>["VerifyNoPic"] : subscribe authentication result report (without image)<br>["QRCode"] : subscribe QR code report<br>["Snap", "Verify"] subscribe snap and authentication result report<br>["IDCard"] subscribe ID card information report<br>["WGCard"] : Wigan swipe card information report<br>["Alarm"] : Alarm information reporting |

#### 4. Example of Request Message

```
1 URL of the request:http://192.168.2.10/action/unsubscribe
2 Content of the request:
3 {
4 "operator": "Unsubscribe",
5 "info": {
6 "DeviceID": 1300001,
7 "Num": 2,
8 "Topics": ["Snap", "verify"]
9 }
10 }
```

#### 5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: optional is optional):

| Key      | Type                 | Values      | Description                                                                                      |
|----------|----------------------|-------------|--------------------------------------------------------------------------------------------------|
| operator | string               | Unsubscribe | Unsubscribe                                                                                      |
| info     | JSON Object          |             | Concrete content                                                                                 |
| code     | int                  |             | Command execution error code:200-successes,see also <a href="#">7.24 Unsubscribe Error Codes</a> |
| Result   | String               | "Ok"/"Fail" | Operating result                                                                                 |
| Detail   | String<br>(optional) |             | Error message when Result is "Fail"                                                              |

#### 6. Example of Reply Message

```
1 {
2 "operator": "Unsubscribe",
3 "code": 200,
4 "info": {
5 "Result": "ok"
6 }
7 }
```

## 4.12 Manual Push Control Logging

### 1. Description

This interface is mainly to solve the problem of losing control records reported due to HTTP server-side reasons [4.4 Reporting of Certification Results](#), and manually through the interface settings, the All-in-One machine again actively uploads the The All-in-One again actively uploads the certification results of the time period to the server through the interface settings.

This interface requires that the subscription address and port settings of [4. HTTP Subscription](#) are correct and **that the subscription for authentication result reporting is enabled**. This interface is mandatory to push the searched control logs, whether or not to use the `Continue Transmitting After Disconnection` function has no effect on this interface, this interface upload control logs **do not need** the server to reply, at the same time need to pay attention to the data reported by this interface may be due to the same record has been reported to the server before the server to save the same data more than once.

## 2. API Description

| Items       | Description                                                                                                                           |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | <code>ManualPushRecords</code>                                                                                                        |
| Request URL | <code>http://&lt;server ipaddr&gt;/action/ManualPushRecords</code> (Where <server ipaddr> is the device IP, for example:192.168.1.10) |

## 3. Explanation of the Paragraph of the Requested Message

Parameter information (Note: `optional` is optional):

| Key      | Type   | Values                           | Description                                                                                    |
|----------|--------|----------------------------------|------------------------------------------------------------------------------------------------|
| operator |        | <code>ManualPushRecords</code>   | Manual push control logging                                                                    |
| info     |        |                                  | Concrete content                                                                               |
| DeviceID | int    |                                  | ID number of the device to be operated<br>See <a href="#">6.8.1 Getting Device Information</a> |
| TimeS    | string | <code>YYYY-MM-DDThh:mm:ss</code> | Control log start time that needs to be pushed.e.g.,<br>2020-07-29T21:50:05                    |
| TimeE    | string | <code>YYYY-MM-DDThh:mm:ss</code> | Control log end time that needs to be pushed.e.g.,<br>2020-07-29T21:50:05                      |

## 4. Example of Request Message

```

1 URL of the request:http://172.168.5.227/action/ManualPushRecords
2 Content of the request:
3 {
4 "operator": "ManualPushRecords",
5 "info": {
6 "DeviceID": 1743726,
7 "Times": "2020-07-28T9:00:00",
8 "TimeE": "2020-08-07T9:00:00"
9 }
10 }
```

## 5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: optional is optional):

| Key       | Type              | Values            | Description                                                                                                         |
|-----------|-------------------|-------------------|---------------------------------------------------------------------------------------------------------------------|
| operator  | string            | ManualPushRecords | Manual push control logging                                                                                         |
| info      | JSON Object       |                   | Concrete content                                                                                                    |
| code      | int               |                   | Command execution error code<br>200-successes,see also <a href="#">7.25 Manual Push Control Logging Error Codes</a> |
| Result    | String            | "Ok"/"Fail"       | Operating result                                                                                                    |
| Detail    | String (optional) |                   | Error message when Result is "Fail"                                                                                 |
| RecordNum | string (optional) |                   | Total number of matching control logs                                                                               |
| RecordTip | string (optional) |                   | Alerts                                                                                                              |

## 6. Example of Reply Message

```

1 {
2 "operator": "ManualPushRecords",
3 "code": 200,
4 "info": {
5 "Result": "ok",
6 "RecordNum": "4",
7 "RecordTip": "Confirm connection to HTTP server is ok ? Find 4
records, try to push now"
8 }
9 }
```

## 4.13 Subscribe to Reporting Responses

### 1. Description

The reply only takes effect when the door opening method is set to “**Platform verification, remote door opening**”, and applies to the subscription reports of chapters 4.3~4.8, i.e. stranger capture report, authentication report, QR code report, ID card information report, IC card/RFID card report, alarm report, and the reply can perform the corresponding door opening or display operation. Reporting, alarm reporting, the reply can perform the corresponding door opening or display operation.

### 2. Explanation of the Paragraph of the Reply Message

Parameter information(Note: optional is optional):

| Key          | Type                         | Values | Description                                                                                                                                                                                                             |
|--------------|------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| code         | int                          |        | Command execution error code<br>200-successes                                                                                                                                                                           |
| openDoor     | int<br>(optional)            |        | Whether to open the door or not, 0:not open the door,<br>1:open the door                                                                                                                                                |
| showInfo     | String<br>(optional)         |        | Set the current content of the device to be displayed, such as: please pass, prohibited, etc., the content of the utf-8 format. This parameter can be used without displaying the content, and can be used with status. |
| msgAttribute | JSON<br>Object<br>(optional) |        | Set the style of the text to be displayed, including “color”, ‘pleace’, “font” fields, if not set, the default text style of the device will be used.                                                                   |
| color        | String<br>(optional)         |        | Text color, using hexadecimal color code, e.g., :ffffff;<br>default is ffffff                                                                                                                                           |
| pleace       | int<br>(optional)            |        | Position of text display<br>0: centered<br>1: to the left<br>2: to the right<br>Default 0                                                                                                                               |
| font         | int<br>(optional)            |        | Font size for text<br>Default 24pt                                                                                                                                                                                      |

### 3. Example of Reply Message

```

1 {
2 "code": 200,
3 "openDoor": 1,
4 "showInfo":"welcome",
5 "msgAttribute":{
6 "color":"ff00ff",
7 "please":1,
8 "font": 10
9 }
10 }

```

## 5、Device Management

### 5.1 Software Version Upgrade

#### 1. Description

In [6.8.1 Getting Device Information](#), you can get the software version of the current Face Recognition All-in-One Machine, check the version that needs to be upgraded and the current software version of the Face Recognition All-in-One Machine to meet the upgrade premise of the corresponding version, and after the upgrade version is successfully upgraded, the Face Recognition All-in-One Machine will be restarted automatically.

#### 2. API Description

| Items       | Description                                                                                                                                    |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | Upgrade                                                                                                                                        |
| Request URL | <code>http://&lt;server ipaddr&gt;/action/upgrade</code> (Where <code>&lt;server ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

#### 3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

| Key         | Type           | Values                                                                                                                    | Description                                                                                                                                                                                                              |
|-------------|----------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| operator    | string         | Upgrade                                                                                                                   | Software version upgrade                                                                                                                                                                                                 |
| info        | json object    |                                                                                                                           | Concrete content                                                                                                                                                                                                         |
| DeviceID    | int            |                                                                                                                           | ID number of the device to be operated<br>See <a href="#">6.8.1 Getting Device Information</a>                                                                                                                           |
| Name        | string         |                                                                                                                           | Software version name                                                                                                                                                                                                    |
| upgradeType | int (optional) | 1-4                                                                                                                       | Upgrade type, default 1;<br>1: Indicates upgrading software firmware package, *.swx file;<br>2: Upgrading voice file, *.wav file;<br>3: Upgrading png image file, *.png file;<br>4: Upgrading jpg image file, *.jpg file |
| Path        | string         | e.g.: <a href="https://http://192.168.2.10">https://h<br/>g.oss-cn-she<br/>nzheng.aliyun<br/>cs.com/face/<br/>xxx.swx</a> | The download path of the software version upgrade file (http or https), without upgradeType field or upgradeType=1, it means the download path of the upgrade file, <b>the suffix must be “.swx”</b> .                   |

#### 4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/upgrade
2 Content of the request:
3 {
4 "operator": "Upgrade",
5 "info": {
6 "DeviceID": 1743726,
7 "Name": "New Version",
8 "upgradeType": 1,
9 "Path": "http://172.168.5.99:8080/FaceGate_val1.52.11.0-L-M-[IX-4G-QR-
w-2.5w]-20221219.swx"
10 }
11 }
```

#### 5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: optional is optional):

| Key      | Type                 | Values          | Description                                                                                                       |
|----------|----------------------|-----------------|-------------------------------------------------------------------------------------------------------------------|
| operator | string               | Upgrade         | Software version upgrade                                                                                          |
| info     | JSON Object          |                 | Concrete content                                                                                                  |
| code     | int                  |                 | Command execution error code<br>200-successes, see also <a href="#">7.22 Software Version Upgrade Error Codes</a> |
| Result   | String               | "Ok"/<br>"Fail" | Operating result                                                                                                  |
| Detail   | String<br>(optional) |                 | Error message when Result is "Fail"                                                                               |

## 6. Example of Reply Message

```

1 {
2 "operator": "Upgrade",
3 "code": 200,
4 "info": {
5 "Result": "ok"
6 }
7 }
```

## 5.2 Device Reboot

### 1. Description

Device reboot.

### 2. API Description

| Items       | Description                                                                                                                                         |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | <code>RebootDevice</code>                                                                                                                           |
| Request URL | <code>http://&lt;server_ipaddr&gt;/action/RebootDevice</code> (Where <code>&lt;server_ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

### 3. Explanation of the Paragraph of the Requested Message

Parameter information (Note: `optional` is optional):

| Key            | Type        | Values       | Description                                                                                    |
|----------------|-------------|--------------|------------------------------------------------------------------------------------------------|
| operator       | string      | RebootDevice | Device reboot                                                                                  |
| info           | json object |              | Concrete content                                                                               |
| DeviceID       | int         |              | ID number of the device to be operated<br>See <a href="#">6.8.1 Getting Device Information</a> |
| IsRebootDevice | int         | 0~1          | 0:Do not reboot the device<br>1:Reboot the device                                              |

#### 4. Example of Request Message

```

1 URL of the request:http://172.168.2.10/action/RebootDevice
2 Content of the request:
3 {
4 "operator": "RebootDevice",
5 "info": {
6 "DeviceID": 1743726,
7 "IsRebootDevice": 1
8 }
9 }
```

#### 5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: optional is optional):

| Key      | Type                 | Values       | Description                                                                                           |
|----------|----------------------|--------------|-------------------------------------------------------------------------------------------------------|
| operator | string               | RebootDevice | Device reboot                                                                                         |
| info     | JSON Object          |              | Concrete content                                                                                      |
| code     | int                  |              | Command execution error code<br>200-successes,see also <a href="#">7.26 Device Reboot Error Codes</a> |
| Result   | String               | "Ok"/"Fail"  | Operating result                                                                                      |
| Detail   | String<br>(optional) |              | Error message when Result is "Fail"                                                                   |

#### 6. Example of Reply Message

```
1 {
2 "operator": "RebootDevice",
3 "code":200,
4 "info": {
5 "Result": "ok"
6 }
7 }
```

## 5.3 Remote Open Door

### 1. Description

Remote control of door opening.

### 2. API Description

| Items       | Description                                                                                                                  |
|-------------|------------------------------------------------------------------------------------------------------------------------------|
| Operator    | OpenDoor                                                                                                                     |
| Request URL | <code>http://&lt;server ipaddr&gt;/action/openDoor</code> (Where <server ipaddr> is the device IP, for example:192.168.1.10) |

### 3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

| Key          | Type                               | Values   | Description                                                                                                                                                                                                             |
|--------------|------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| operator     | string                             | OpenDoor | Directly open the door, you can check whether the specific control mode is switching or Wiegand. <a href="#">6.1 Door Opening Conditions and Output Control Parameters</a> , Wiegand is using a public card number.     |
| info         | json object                        |          | Concrete content                                                                                                                                                                                                        |
| DeviceID     | int                                |          | ID number of the device to be operated<br>See <a href="#">6.8.1 Getting Device Information</a>                                                                                                                          |
| msg          | string (optional)                  |          | Set the current content of the device to be displayed, such as: please pass, prohibited, etc., the content of the utf-8 format. This parameter can be used without displaying the content, and can be used with status. |
| status       | int<br>(Required with "msg" field) |          | <b>This value is greater than 0 to open the door</b> , don't need this parameter if you don't want to show the content, use it with msg.                                                                                |
| msgAttribute | json object (optional)             |          | Set the style of the text to be displayed, including "color", 'please', "font" fields, if not set, the default text style of the device will be used.                                                                   |
| color        | string (optional)                  |          | Text color, using hexadecimal color code, e.g., :ffffff; default is ffffff                                                                                                                                              |
| please       | string (optional)                  |          | Position of text display<br>0: centered<br>1: to the left<br>2: to the right<br>Default 0                                                                                                                               |
| font         | string (optional)                  |          | Font size for text<br>Default 24pt                                                                                                                                                                                      |

#### 4. Example of Request Message

```

1 URL of the request: http://172.168.5.227/action/openDoor
2 Content of the request:
3 {
4 "operator": "OpenDoor",
5 "info": {
6 "DeviceID": "1770137",
7 "status": 1,

```

```

8 "msg": "welcome!",
9 "msgAttribute":{
10 "color":"ff00ff",
11 "please":"1",
12 "font": "10"
13 }
14 }
15 }
```

## 5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: optional is optional):

| Key      | Type                 | Values      | Description                                                                                               |
|----------|----------------------|-------------|-----------------------------------------------------------------------------------------------------------|
| operator | string               | OpenDoor    | Remote control of door opening.                                                                           |
| info     | JSON Object          |             | Concrete content                                                                                          |
| code     | int                  |             | Command execution error code<br>200-successes, see also <a href="#">7.34 Remote Open Door Error Codes</a> |
| Result   | String               | “Ok”/“Fail” | Operating result                                                                                          |
| Detail   | String<br>(optional) |             | Error message when Result is "Fail"                                                                       |

## 6. Example of Reply Message

```

1 {
2 "operator": "OpenDoor",
3 "code": 200,
4 "info": {
5 "Result": "ok"
6 }
7 }
```

## 5.4 Restore Factory Settings

This interface mainly involves the setting of factory mode and all the settings such as list and control logs. **The operation of restoring capture logs, personnel list database and control logs is irreversible, so please be careful.** Parts that do not need to be recovered can be left out and partial recovery is supported.

### 5.4.1 Restore Factory Settings

#### 1. Description

The specified part will restore the factory settings , “Name and ip address” or “Capture record” or “List registration record” or “Control record” or “RTSP” will be restored to the factory! “RTSP” to restore the factory application software will reboot!

## 2. API Description

| Items       | Description                                                                                                                                              |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | <code>SetFactoryDefault</code>                                                                                                                           |
| Request URL | <code>http://&lt;server_ipaddr&gt;/action/SetFactoryDefault</code> (Where <code>&lt;server_ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

## 3. Explanation of the Paragraph of the Requested Message

Parameter information (Note: `optional` is optional):

| Key             | Type           | Values            | Description                                                                                                                 |
|-----------------|----------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------|
| operator        | string         | SetFactoryDefault | Setting up the device to restore the factory                                                                                |
| info            | json object    |                   | Concrete content                                                                                                            |
| DefaltAll       | int (optional) | 0~1               | Restore all factory settings<br>0: No factory restoration<br>1: Factory restoration                                         |
| DefaltDoorSet   | int (optional) | 0~1               | Door open condition whether to restore the factory<br>0: No factory restoration<br>1: Factory restoration                   |
| DefaltSoundSet  | int (optional) | 0~1               | Whether the sound settings are restored to the factory<br>0: No factory restoration<br>1: Factory restoration               |
| DefaltNetPar    | int (optional) | 0~1               | Whether the network parameters are restored to the factory<br>0: No factory restoration<br>1: Factory restoration           |
| DefaltCenterPar | int (optional) | 0~1               | Whether the center connection parameters are restored to the factory<br>0: No factory restoration<br>1: Factory restoration |
| DefaltCapture   | int (optional) | 0~1               | Capture logs + control logs whether to restore the factory<br>0: No factory restoration<br>1: Factory restoration           |
| DefaltLog       | int (optional) | 0~1               | System Logs whether to restore the factory<br>0: No factory restoration<br>1: Factory restoration                           |
| DefaltPerson    | int (optional) | 0~1               | Personnel list library + control logs whether to restore the factory<br>0: No factory restoration<br>1: Factory restoration |

| Key                  | Type              | Values | Description                                                                                                                                                                                             |
|----------------------|-------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DefaltRecord         | int<br>(optional) | 0~1    | Control logs whether to restore the factory<br>0: No factory restoration<br>1: Factory restoration                                                                                                      |
| DefaltMaintainTime   | int<br>(optional) | 0~1    | System maintenance time whether to restore the factory<br>0: No factory restoration<br>1: Factory restoration                                                                                           |
| DefaltSystemSettings | int<br>(optional) | 0~1    | System parameters: ID card reader type; whether to record the capture, ID card, control logs and other parameters whether to restore the factory<br>0: No factory restoration<br>1: Factory restoration |
| DefaltEncParam       | int<br>(optional) | 0~1    | Video Parameter whether to restore the factory<br>0: No factory restoration<br>1: Factory restoration                                                                                                   |
| DefaltRtsp           | int<br>(optional) | 0~1    | RTSP parameter whether to restore the factory<br>0: No factory restoration<br>1: Factory restoration                                                                                                    |
| DefaltHttp           | int<br>(optional) | 0~1    | HTTP parameter whether to restore the factory<br>0: No factory restoration<br>1: Factory restoration                                                                                                    |
| DefaltMqtt           | int<br>(optional) | 0~1    | MQTT parameter whether to restore the factory<br>0: No factory restoration<br>1: Factory restoration                                                                                                    |
| DefaltWifi           | int<br>(optional) | 0~1    | Wifi parameter whether to restore the factory<br>0: No factory restoration<br>1: Factory restoration                                                                                                    |

| Key          | Type              | Values | Description                                                                                        |
|--------------|-------------------|--------|----------------------------------------------------------------------------------------------------|
| DefaltMobile | int<br>(optional) | 0~1    | 4G parameter whether to restore the factory<br>0: No factory restoration<br>1: Factory restoration |

#### 4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/SetFactoryDefault
2 Content of the request:
3 {
4 "operator": "SetFactoryDefault",
5 "info": {
6 "DefaltDoorSet": 1,
7 "DefaltSoundSet": 1,
8 "DefaltNetPar": 0,
9 "DefaltCenterPar": 0,
10 "DefaltCapture": 0,
11 "DefaltLog": 0,
12 "DefaltPerson": 0,
13 "DefaltRecord": 0,
14 "DefaltMaintainTime": 0,
15 "DefaltSystemSettings": 0,
16 "DefaltEnterIPC": 0,
17 "DefaltServerBasicPara": 0,
18 "DefaltWorktype": 0
19 }
20 }
```

#### 5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: `optional` is optional):

| Key      | Type              | Values            | Description                                                                                                      |
|----------|-------------------|-------------------|------------------------------------------------------------------------------------------------------------------|
| operator | string            | SetFactoryDefault | Restore factory settings                                                                                         |
| info     | JSON Object       |                   | Concrete content                                                                                                 |
| code     | int               |                   | Command execution error code<br>200-successes, see also <a href="#">7.9 Restore Factory Settings Error Codes</a> |
| Result   | String            | "Ok"/"Fail"       | Operating result                                                                                                 |
| Detail   | String (optional) |                   | Error message when Result is "Fail"                                                                              |

## 6. Example of Reply Message

```

1 {
2 "operator": "SetFactoryDefault",
3 "code": 200,
4 "info": {
5 "Result": "ok"
6 }
7 }

```

## 5.5 Device Keep Open Setting

### 1. Description

Keep the device always open state, at this time, swipe the card, identification will not close the door, can be used for fire escape and other scenarios.

### 2. API Description

| Items       | Description                                                                                                                     |
|-------------|---------------------------------------------------------------------------------------------------------------------------------|
| Operator    | SetKeepopen                                                                                                                     |
| Request URL | <code>http://&lt;server_ipaddr&gt;/action/SetKeepopen</code> (Where <server_ipaddr> is the device IP, for example:192.168.1.10) |

### 3. Explanation of the Paragraph of the Requested Message

Parameter information (Note: `optional` is optional):

| Key      | Type              | Values      | Description                                                                                     |
|----------|-------------------|-------------|-------------------------------------------------------------------------------------------------|
| operator | string            | SetKeepOpen | Setting the device normally open                                                                |
| DeviceID | int               |             | ID number of the device to be operated<br>See <a href="#">6.8.1 Getting Device Information</a>  |
| info     | json object       |             | Concrete content                                                                                |
| KeepOpen | Int<br>(optional) | 0~2         | Whether to set normally open<br>0:Not enabled<br>1:Door normally open<br>2:Door normally closed |

#### 4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/SetKeepOpen
2 Content of the request:
3 {
4 "operator": "SetKeepOpen",
5 "DeviceID":1743725,
6 "info": {
7 "KeepOpen": 1
8 }
9 }
```

#### 5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: `optional` is optional):

| Key      | Type                 | Values      | Description                                                                                                      |
|----------|----------------------|-------------|------------------------------------------------------------------------------------------------------------------|
| operator | string               | SetKeepOpen | Setting the device normally open                                                                                 |
| info     | JSON<br>Object       |             | Concrete content                                                                                                 |
| code     | int                  |             | Command execution error code<br>200-successes,see also <a href="#">7.45 Device Keep Open Setting Error Codes</a> |
| Result   | String               | "Ok"/"Fail" | Operating result                                                                                                 |
| Detail   | String<br>(optional) |             | Error message when Result is "Fail"                                                                              |

#### 6. Example of Reply Message

```

1 {
2 "operator": "SetKeepOpen",
3 "code": 463,
4 "info": {
5 "Result": "Fail",
6 "Detail": "Key['KeepOpen'] value error"
7 }
8 }

```

## 6、Device Parameters

### 6.1 Door Opening Conditions and Output Control Parameters

Door opening condition and output control parameter part mainly involves controlling the main parameter settings such as door opening condition and output control of the face machine, which can be adjusted according to the actual situation to realize different door opening condition to open the door.

#### 6.1.1 Obtaining Door Opening Conditions and Outputting Control Parameters

##### 1. Description

The main purpose of this interface is to obtain the main parameters involving the opening conditions and output control of the face machine.

##### 2. API Description

| Items       | Description                                                                                                                          |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | GetDoorCondition                                                                                                                     |
| Request URL | <code>http://&lt;server_ipaddr&gt;/action/GetDoorCondition</code> (Where <server_ipaddr> is the device IP, for example:192.168.1.10) |

##### 3. Example of Request Message

```

1 | URL of the request: http://172.168.2.10/action/GetDoorCondition
2 | Content of the request: (空)

```

##### 4. Explanation of the Paragraph of the Reply Message

Parameter information (Note: optional is optional):

| Key             | Type        | Values                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| operator        | string      | GetDoorCondition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Obtaining door opening conditions and outputting control parameters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| info            | JSON Object |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Concrete content                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| FaceThreshold   | int         | 50~100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Black and White List comparison threshold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| IDCardThreshold | int         | 50~100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ID card comparison threshold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| OpendoorWay     | int         | 0~3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0:Face door opening method;<br>1:Remote door opening method;<br>2:Remote door opening or face method;<br>3:Face verification + remote door opening method                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| VerifyMode      | int         | 1.1:Universal model<br>1~4 or 21~26 ;<br>2.Masks or thermometry model:<br>Whether mask testing or temperature testing is required<br>Support for mask detection or ( ) operation 0x100 indicates a pass with mask detection;<br>Supports body temperature detection or ( ) operation 0x200 indicates a pass with temperature detection<br>Support mask + body temperature detection or ( ) operation 0x300 means with mask + temperature detection pass<br>Example:<br>1:Universal model<br>1)Whitelist validation:1 | Authentication Type<br>1: Whitelist Verification<br>2: ID Verification<br>3: Whitelist + ID Verification<br>4: Whitelist or ID Verification<br>5:Separate mask or separate body temperature or separate mask + body temperature (to be used in conjunction with whether or not to include mask detection or body temperature detection, mask or temperature measurement models)<br>21:RF Card Verification( <b>Built-in card swiping model</b> )<br>22:RF Card Verification + Whitelist Verification( <b>Built-in card swiping model</b> )<br>23:RF card authentication or white list authentication |

| Key             | Type | Values                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |      | <p>2)Wiegand card + whitelist validation:25</p> <p>2:Mask or temperature measuring machine</p> <p>1)Separate mask validation pass (0x105=0x100&amp;5=261)</p> <p>2)Mask + whitelist validation (0x101=0x100&amp;1=257)</p> <p>3)Separate body temperature pass (0x205=0x200&amp;5=517)</p> <p>4)Body temperature + whitelist verification<br/>(0x201=0x200&amp;1=513)</p> <p>5)Mouthpiece + body temperature alone<br/>(0x305=0x300&amp;5=773)</p> <p>6)Mouthpiece + body temperature + Wigan swipe + whitelist verification<br/>(0x319=0x300&amp;25=793)</p> <p>Only health code version support:Support QR code check 0x400</p> <p>1)QR code + temperature detection(1536=0x400+0x300)</p> | <p>(built-in card model)</p> <p>24:Wiegand Card Verification</p> <p>25:Wiegand Card + Whitelist Verification</p> <p>26:Wiegand Card or Whitelist Authentication</p> <p>The following door opening methods are only supported by the health code version:</p> <p>47:QR code or whitelist or ID card</p> <p>48:whitelist + QR code or whitelist + ID card</p> <p>55 QR code or ID card or whitelist (to check the health code)</p> <p>56 QR code or ID card to skip the swipe</p> <p>57 whitelist + health code information</p> |
| VerifyResetTime | int  | 1~10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>Verify reset time (sec)</p> <p>The UI displays a reminder message as well as a time for the same person to validate the reset time without being recognized again</p>                                                                                                                                                                                                                                                                                                                                                      |

| <b>Key</b>          | <b>Type</b>                | <b>Values</b> | <b>Description</b>                                                                                                                                                                               |
|---------------------|----------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wiegand             | int<br>(optional)          | 0~1           | Wiegand protocol type<br>0: 26 bits<br>1: 34 bits<br>4: 26 bits(8+16): facility code+userid<br>5: 34 bits(8+24);<br>6: 26 bits(8+16 fill in separately);<br>7: 34 bits(8+24 fill in separately); |
| PublicMjCardNo      | unsigned int<br>(optional) |               | Public Access Card Number                                                                                                                                                                        |
| AutoMjCardBodyNo    | unsigned int<br>(optional) |               | Starting card number for automatic generation of access card numbers                                                                                                                             |
| AutoMjCardBodyEndNo | unsigned int<br>(optional) |               | Automatic generation of end card numbers for access control card numbers                                                                                                                         |
| ControlType         | int                        | 0~2           | Controls the way the door opener interfaces.<br>0:Wiegand interface<br>1:switching mode<br>2:Wiegand interface+switching mode                                                                    |
| IOType              | int                        | 0~1           | Door opening action when controlling the door opening interface method<br>0:close<br>1:turn off                                                                                                  |
| IOStayTime          | int                        |               | Open Door Hold Time ( ms )                                                                                                                                                                       |
| DoorContactTime     | int<br>(optional)          |               | Door magnetic trigger hold time ( s )                                                                                                                                                            |
| Endian              | int                        | 0~1           | Card number size end read mode<br>0:Big Endian<br>1:Little Endian                                                                                                                                |

| <b>Key</b>     | <b>Type</b>     | <b>Values</b>      | <b>Description</b>                                                                                                                       |
|----------------|-----------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| CardMode       | int             | 0~1                | Card Number Method<br>0:decimal<br>1:hexadecimal                                                                                         |
| IsOutFF        | int             | 0~1                | Stranger Wiegand output<br>FFFFFF (Wiegand opens door)<br>0:non-output<br>1:output                                                       |
| SnapResetTime  | int             | 0~15 ( default 0 ) | Recognition interval (seconds):Waiting time to recognize the next person after the comparison is passed                                  |
| IsMaskOK       | int (optional)  | 0~1                | Used when the mask function is supported<br>1:Check to allow passage without a mask<br>0:Uncheck the box to allow passage without a mask |
| KeepCardZero   | int             | 0~1                | Whether or not to report and display the 0 in front of the reserved card number                                                          |
| PasswordEnable | int (optional)  | 0~1                | Whether to enable password detection (device must have password function)                                                                |
| PasswordType   | int (optional)  | 0~1                | Password Detection Method:<br>0:common password<br>1:personal password<br>( The device needs to have a password function )               |
| keyPassword    | String (option) |                    | When PasswordType=0, the common password is a 6-digit number (the device must be equipped with a password function).                     |

## 5. Example of Reply Message

1. The door opening interface is switching.

```
1 | {
2 | "operator": "GetDoorCondition",
3 | "info": {
4 | "FaceThreshold": 80,
5 | "IDCardThreshold": 50,
6 | "VerifyResetTime": 2,
7 | "OpendoorWay": 0,
8 | "VerifyMode": 1,
9 | "ControlType": 1,
10 | "IOType": 0,
11 | "IOStayTime": 6,
12 | "Endian": 0,
13 | "CardMode": 0,
14 | "SnapResetTime": 0
15 | }
16 | }
```

2. The door opening interface is a Wiegand interface.

```
1 | {
2 | "operator": "GetDoorCondition",
3 | "info": {
4 | "FaceThreshold": 80,
5 | "IDCardThreshold": 50,
6 | "VerifyResetTime": 2,
7 | "OpendoorWay": 0,
8 | "VerifyMode": 1,
9 | "Wiegand": 0,
10 | "ControlType": 0,
11 | "PublicMjCardNo": 2,
12 | "AutoMjCardBgnNo": 2,
13 | "AutoMjCardEndNo": 4,
14 | "IOStayTime": 6,
15 | "Endian": 0,
16 | "CardMode": 0
17 | }
18 | }
```

3. The door opening interface is a Wergen + switching interface.

```
1 | {
2 | "operator": "GetDoorCondition",
3 | "info": {
4 | "FaceThreshold": 80,
5 | "IDCardThreshold": 50,
6 | "OpendoorWay": 0,
7 | "VerifyMode": 1,
```

```

8 "wiegand": 0,
9 "ControlType": 0,
10 "PublicMjCardNo": 2,
11 "AutoMjCardBgnNo": 2,
12 "AutoMjCardEndNo": 4,
13 "IOStayTime": 6,
14 "Endian": 0,
15 "CardMode": 0
16 }
17 }
```

## 6.1.2 Setting of Door Opening Conditions and Output Control Parameters

### 1. Description

This interface is used to set the main parameters involving the door opening conditions and output control of the face machine.

### 2. API Description

| Items       | Description                                                                                                                                             |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | <code>SetDoorCondition</code>                                                                                                                           |
| Request URL | <code>http://&lt;server ipaddr&gt;/action/SetDoorCondition</code> (Where <code>&lt;server ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

### 3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

| Key             | Type           | Values                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| operator        | string         | SetDoorCondition                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Setting of door opening conditions and output control parameters                                                                                                                                                                                                                                                                                                                                                                                                              |
| info            | JSON Object    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Concrete content                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| FaceThreshold   | int (optional) | 50~100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Black and White List comparison threshold                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| IDCardThreshold | int (optional) | 50~100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ID card comparison threshold                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| OpendoorWay     | int (optional) | 0~3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0:Face door opening method;<br>1:Remote door opening method;<br>2:Remote door opening or face method;<br>3:Face verification + remote door opening method                                                                                                                                                                                                                                                                                                                     |
| VerifyMode      | int (optional) | 1.1.1:Universal model<br>1~4 or 21~26 ;<br>2.Masks or thermometry model:<br>Whether mask testing or temperature testing is required<br>Support for mask detection or ( ) operation 0x100 indicates a pass with mask detection;<br>Supports body temperature detection or ( ) operation 0x200 indicates a pass with temperature detection<br>Support mask + body temperature detection or ( ) operation 0x300 means with mask + temperature detection pass<br>Example:<br>1:Universal model | Authentication Type<br>1: Whitelist Verification<br>2: ID Verification<br>3: Whitelist + ID Verification<br>4: Whitelist or ID Verification<br>5:Separate mask or separate body temperature or separate mask + body temperature (to be used in conjunction with whether or not to include mask detection or body temperature detection, mask or temperature measurement models)<br>21:RF Card Verification( <b>Built-in card swiping model</b> )<br>22:RF Card Verification + |

| Key             | Type           | Values                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                | <p>1)Whitelist validation:1<br/>     2)Wiegand card + whitelist validation:25<br/>     2:Mask or temperature measuring machine<br/>     1)Separate mask validation pass (0x105=0x100&amp;5=261)<br/>     2)Mask + whitelist validation (0x101=0x100&amp;1=257)<br/>     3)Separate body temperature pass (0x205=0x200&amp;5=517)<br/>     4)Body temperature + whitelist verification<br/>     (0x201=0x200&amp;1=513)<br/>     5)Mouthpiece + body temperature alone<br/>     (0x305=0x300&amp;5=773)<br/>     6)Mouthpiece + body temperature + Wigan swipe + whitelist verification<br/>     (0x319=0x300&amp;25=793)</p> <p>Only health code version support:Support QR code check 0x400<br/>     1)QR code + temperature detection(1536=0x400+0x300)</p> | Whitelist<br>Verification( <b>Built-in card swiping model</b> )<br>23:RF card authentication or white list authentication (built-in card model)<br>24:Wiegand Card Verification<br>25:Wiegand Card + Whitelist Verification<br>26:Wiegand Card or Whitelist Authentication<br>The following door opening methods are only supported by the health code version:<br>47:QR code or whitelist or ID card<br>48:whitelist + QR code or whitelist + ID card<br>55 QR code or ID card or whitelist (to check the health code)<br>56 QR code or ID card to skip the swipe<br>57 whitelist + health code information |
| VerifyResetTime | int (optional) | 1~10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Verify reset time (sec)<br>The UI displays a reminder message as well as a time for the same person to validate the reset time without being recognized again                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| <b>Key</b>       | <b>Type</b>                | <b>Values</b> | <b>Description</b>                                                                                                                                                                                |
|------------------|----------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wiegand          | int<br>(optional)          | 0~1           | Wiegand protocol type<br>0: 26 bits<br>1: 34 bits<br>4: 26 bits(8+16): facility code+userid<br>5: 34 bits(8+24);<br>6: 26 bits(8+16 fill in separately);<br>7: 34 bits(8+24 fill in separately) ; |
| PublicMjCardNo   | unsigned int<br>(optional) |               | Public Access Card Number                                                                                                                                                                         |
| AutoMjCardBodyNo | unsigned int<br>(optional) |               | Starting card number for automatic generation of access card numbers                                                                                                                              |
| AutoMjCardEndNo  | unsigned int<br>(optional) |               | Starting card number for automatic generation of access card numbers                                                                                                                              |
| ControlType      | int<br>(optional)          | 0~2           | Controls the way the door opener interfaces.<br>0:Wiegand interface<br>1:switching mode<br>2:Wiegand interface+switching mode                                                                     |
| IOType           | int<br>(optional)          | 0~1           | Door opening action when controlling the door opening interface method<br>0:close<br>1:turn off                                                                                                   |
| IOStayTime       | int<br>(optional)          |               | Open Door Hold Time ( ms )                                                                                                                                                                        |
| DoorContactTime  | int<br>(optional)          |               | Door Magnetic Trigger Hold Time ( ms )                                                                                                                                                            |
| Endian           | int<br>(optional)          | 0~1           | Card number size end read mode<br>0:Big Endian<br>1:Little Endian                                                                                                                                 |

| <b>Key</b>     | <b>Type</b>       | <b>Values</b>      | <b>Description</b>                                                                                                                                   |
|----------------|-------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| CardMode       | int<br>(optional) | 0~1                | Card Number Method<br>0:decimal<br>1:hexadecimal                                                                                                     |
| IsOutFF        | int<br>(optional) | 0~1                | Stranger Wegen output<br>FFFFFF (Wegen<br>opens door)<br>0:non-output<br>1:output                                                                    |
| SnapResetTime  | int<br>(optional) | 0~15 ( Default 0 ) | Recognition interval<br>(seconds):Waiting time to<br>recognize the next person<br>after the comparison is<br>passed                                  |
| IsMaskOK       | int<br>(optional) | 0~1                | Used when the mask<br>function is supported<br>1:Check to allow passage<br>without a mask<br>0:Uncheck the box to<br>allow passage without a<br>mask |
| IsCardOK       | int<br>(optional) | 0~1                | Whether unregistered<br>card numbers are allowed<br>0: Not allowed<br>1: Allowed                                                                     |
| KeepCardZero   | int(optional)     | 0~1                | Whether or not to report<br>and display the 0 in front<br>of the reserved card<br>number                                                             |
| PasswordEnable | int<br>(optional) | 0~1                | Whether to enable<br>password detection<br>(device must have<br>password function)                                                                   |
| PasswordType   | int<br>(optional) | 0~1                | Password Detection<br>Method:<br>0:common password<br>1:personal password<br>( The device needs to<br>have a password<br>function )                  |

| Key         | Type               | Values | Description                                                                                                          |
|-------------|--------------------|--------|----------------------------------------------------------------------------------------------------------------------|
| keyPassword | String<br>(option) |        | When PasswordType=0, the common password is a 6-digit number (the device must be equipped with a password function). |

#### 4. Example of Request Message

The door opening interface is switching.

```

1 URL of the request:http://172.168.2.68/action/SetDoorCondition
2 Content of the request:
3 {
4 "operator": "SetDoorCondition",
5 "info": {
6 "FaceThreshold": 90,
7 "IDCardThreshold": 50,
8 "Opendoorway": 0,
9 "VerifyMode": 1,
10 "ControlType": 1,
11 "IOType": 0,
12 "IOStayTime": 200,
13 "Endian": 0,
14 "CardMode": 1,
15 "SnapResetTime": 0
16 }
17 }
```

The door opening interface is a Wiegand interface.

```

1 URL of the request:http://172.168.2.68/action/SetDoorCondition
2 Content of the request:
3 {
4 "operator": "SetDoorCondition",
5 "info": {
6 "FaceThreshold": 90,
7 "IDCardThreshold": 50,
8 "Opendoorway": 0,
9 "VerifyMode": 1,
10 "ControlType": 0,
11 "Wiegand": 0,
12 "PublicMjCardNo": 2,
13 "AutoMjCardBgnNo": 2,
14 "AutoMjCardEndNo": 4,
15 "IOStayTime": 200,
16 "Endian": 0,
17 "CardMode": 1
```

```

18 | }
19 }

```

The door opening interface is a Wergen + switching interface.

```

1 URL of the request:http://172.168.2.68/action/SetDoorCondition
2 Content of the request:
3 {
4 "operator": "SetDoorCondition",
5 "info": {
6 "FaceThreshold": 90,
7 "IDCardThreshold": 50,
8 "Opendoorway": 0,
9 "VerifyMode": 1,
10 "ControlType": 0,
11 "Wiegand": 0,
12 "PublicMjCardNo": 2,
13 "AutoMjCardBgnNo": 2,
14 "AutoMjCardEndNo": 4,
15 "IostayTime": 200,
16 "Endian": 0,
17 "CardMode": 1
18 }
19 }

```

## 5. Explanation of the Paragraph of the Reply Message

Parameter information (Note: optional is optional):

| Key      | Type              | Values           | Description                                                                                                                                              |
|----------|-------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| operator | string            | SetDoorCondition | Setting of door opening conditions and output control parameters                                                                                         |
| code     | int               |                  | Command execution error code<br>200-successes, see also <a href="#">7.1 Setting of Door Opening Conditions and Output Control Parameters Error Codes</a> |
| info     | JSON Object       |                  | Concrete content                                                                                                                                         |
| Result   | string            |                  | Operating result                                                                                                                                         |
| Detail   | string (optional) |                  | Error message when Result is "Fail"                                                                                                                      |

## 6. Example of Reply Message

Command executed successfully:

```
1 {
2 "operator": "SetDoorCondition",
3 "code": 200,
4 "info": {
5 "Result": "ok"
6 }
7 }
```

Command execution failure:

```
1 {
2 "operator": "SetDoorCondition",
3 "code": 462,
4 "info": {
5 "Result": "Fail",
6 "Detail": "Parameter error"
7 }
8 }
```

### 6.1.3 Introduction to Door Opening Methods

At present, the face recognition machine supports the following door opening methods: face door opening method, remote door opening method, remote door opening or face method, face verification + remote door opening method.

0:Face opening mode:Face recognition all-in-one machine will push the stranger capture information and authentication comparison information, after passing the comparison, it will directly execute the door opening and UI prompting information, in this mode, calling the remote door opening instruction will be invalid.

1:Remote door opening mode: face recognition all-in-one machine only push the stranger capture information, do not push the authentication comparison information, **does not produce a control log**, the comparison through the door will not be directly executed by opening the door and the UI information prompts, this mode, you can call the remote door opening instructions, this mode is mainly used for the front-end capture, the back-end comparison, and the back-end implementation of the remote door opening.

2:Remote door opening or face mode:face recognition all-in-one machine will push the stranger capture information and authentication comparison information, and directly execute the door opening and UI prompt information after the comparison passes, in this mode, you can call the remote door opening instruction.

3:Face verification + remote door opening mode: face recognition all-in-one machine will push the stranger capture information and authentication comparison information, the comparison through the door will not be directly implemented to open the door and UI information prompts, open the door information and UI prompts need to be in the reply to the authentication push packet received in response to open the door information and UI prompts. This mode requires HTTP settings to be used **in the Continue Transmitting After Disconnection mode** and **the authentication subscription is turned on**. At this time, the face recognition all-in-one machine in the case of matching passes, the authentication matching information will be pushed to

the HTTP subscription address (platform), the platform needs to receive the authentication subscription of the push information, and then reply to the `Continue Transmitting After Disconnection` json data to confirm the packet directly with the open door and prompt information, the all-in-one machine to directly implement the open door and the UI information prompts, do not need to call the remote open the door command. In this mode, you need to pay attention to exclude whether the push authentication data is `Continue Transmitting After Disconnection` authentication data, if it is `Continue Transmitting After Disconnection` data and remote door opening authentication data, then the reply packet does not need to perform the door opening action again.

Example of an information confirmation packet received from an authentication subscription using Face Verification + Remote Door Opening when `Continue Transmitting After Disconnection` is enabled:

Parameter information(Note:`optional` is optional):

| Key      | Type             | Values                             | Description                                                                     |
|----------|------------------|------------------------------------|---------------------------------------------------------------------------------|
| code     | int              | 200                                | Mandatory fields in <code>Continue Transmitting After Disconnection</code> mode |
| desc     | string           | OK                                 | Mandatory fields in <code>Continue Transmitting After Disconnection</code> mode |
| openDoor | int(optional)    | 0/1                                | Door opening action<br>0:Do not open door<br>1:Open door                        |
| showInfo | string(optional) | 64 bytes<br>(including terminator) | UI Tips                                                                         |

Reply need to open door + UI tips:

```

1 {
2 "code": 200,
3 "desc": "OK",
4 "openDoor": 1,
5 "showInfo": "xx, please"
6 }
```

Reply no need to open door + UI tips:

```

1 {
2 "code": 200,
3 "desc": "OK",
4 "openDoor": 0,
5 "showInfo": "xx is not authorized to pass"
6 }
```

## 6.2 Prompt Sound and Interface Display Parameters

This interface is used for the sound playback of the face machine, display of UI elements and other major parameter settings.

### 6.2.1 Getting the Sound of the Prompt and the Parameters of the Interface Display

#### 1. Description

Get the main parameters for controlling the sound playback control of the face machine, display of UI elements, and so on.

#### 2. API Description

| Items       | Description                                                                                                                                     |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | GetSound                                                                                                                                        |
| Request URL | <code>http://&lt;server ipaddr&gt;/action/GetSound</code> (Where <code>&lt;server ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

#### 3. Example of Request Message

- 1 URL of the request:`http://172.168.2.10/action/GetSound`
- 2 Content of the request: (NULL)

#### 4. Explanation of the Paragraph of the Reply Message

Parameter information(Note: `optional` is optional):

| <b>Key</b>         | <b>Type</b> | <b>Values</b>                      | <b>Description</b>                                                                                   |
|--------------------|-------------|------------------------------------|------------------------------------------------------------------------------------------------------|
| operator           | string      | GetSound                           | Getting the sound of the prompt and the parameters of the interface display                          |
| info               | JSON Object |                                    | Concrete content                                                                                     |
| VerifySuccAudio    | int         | 0~1                                | Whether or not to broadcast sound after successful authentication<br>0: No broadcast<br>1: Broadcast |
| VerifyFailAudio    | int         | 0~1                                | Whether to broadcast sound when authentication fails<br>0: No broadcast<br>1: Broadcast              |
| RemoteCtrlAudio    | int         | 0~1                                | Remote control of voice announcements<br>0:No broadcast<br>1: Broadcast                              |
| Volume             | int         | 5~100<br>(Increase every 5 values) | Volume value                                                                                         |
| VerifySuccGuiTip   | int         | 0~1                                | Whether or not the authentication success screen prompts<br>0: no prompt<br>1: prompt                |
| VerifyFailGuiTip   | int         | 0~1                                | Whether or not the authentication failure screen prompts<br>0: No prompt<br>1: Prompt                |
| UnregisteredGuiTip | int         | 0~1                                | Is the list not registered screen prompted<br>0: Not prompted<br>1: Prompted                         |
| IPHide             | int         | 0~1                                | Whether the interface IP is hidden or not<br>0: Not hidden<br>1: Hidden                              |

| Key                  | Type           | Values       | Description                                                                                                                                               |
|----------------------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| IsShowName           | int            | 0~2          | Successful match, name prompts whether to display<br>0: not displayed<br>1: displayed<br>2: partially displayed (hide the latter part)                    |
| DisplayPicture       | int            | 0~1          | Images prompted by successful comparison<br>0: Captured image<br>1: Registered image                                                                      |
| IsShowDeviceID       | int            | 0~1          | Whether to display the local ID<br>0: Do not show<br>1: Show                                                                                              |
| IsShowPersonNum      | int            | 0~1          | Whether to display the number of registered lists<br>0: Not displayed<br>1: Displayed                                                                     |
| VerifyTipContent     | string         | User-defined | Successful authentication UI tips (length of 32 bytes or less, not too long, or lead to incomplete UI display)<br>Default: "Access granted!"              |
| UnregisterTipContent | string         | User-defined | List Unregistered UI tips (32 bytes or less in length, otherwise it causes the UI to display incomplete)<br>Default: "Stranger!"                          |
| BlacklistTipContent  | String         | User-defined | Authentication Failure UI Text Alert (within 32 bytes in length, otherwise it will cause the UI display to be incomplete)<br>Default: "Access denied!"    |
| CompanyName          | String         | User-defined | Company name (length of 64 bytes or less, the actual length can be displayed with reference to the UI display parameters) <b>Supported by some models</b> |
| IDCardNumHide        | int (optional) | 0~1          | Whether to hide the card number in the interface <b>(Built-in card models)</b><br>0: Not hidden<br>1: Hidden                                              |

| Key                | Type              | Values | Description                                                                                                                             |
|--------------------|-------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------|
| ICCardNumHide      | int<br>(optional) | 0~1    | Whether to hide the IC card number in the interface<br><b>(Supported except for built-in card models)</b><br>0: Not hidden<br>1: Hidden |
| TempLowAudio       | int<br>(optional) | 0~1    | Whether to turn on low-temperature broadcasting                                                                                         |
| TempDistance       | int<br>(optional) | 0~1    | Whether to turn on the temperature measurement distance prompt                                                                          |
| bIsShowTamperAlarm | int<br>(optional) | 0~1    | Whether tamper-evident is configured<br><b>(requires hardware support)</b>                                                              |
| CompanyLogoShow    | int<br>(optional) | 0~1    | Whether to display the company logo                                                                                                     |
| CompanyLogo_X      | int<br>(optional) |        | When CompanyLogoShow=1, the horizontal coordinate of the logo.                                                                          |
| CompanyLogo_Y      | int<br>(optional) |        | When CompanyLogoShow=1, the vertical coordinate of the logo.                                                                            |
| CompanyLogo_H      | int<br>(optional) |        | When CompanyLogoShow=1, the height of the logo.                                                                                         |
| CompanyLogo_W      | int<br>(optional) |        | When CompanyLogoShow=1, the width of the logo.                                                                                          |

## 5. Example of Reply Message

```

1 {
2 "operator": "GetSound",
3 "info": {
4 "VerifySuccAudio": 1,
5 "VerifyFailAudio": 1,
6 "RemoteCtrlAudio": 0,
7 "volume": 80,
8 "VerifySuccGuitip": 1,
9 "VerifyFailGuitip": 1,
10 "UnregisteredGuitip": 1,
11 "IPHide": 0,
12 "IsShowName": 1,
13 "DisplayPicture": 0,
14 "ICCardNumHide": 0,
15 "VerifyTipContent": "Access granted!",
16 "UnregisterTipContent": "Stranger!",

```

```
17 "BlacklistTipContent": "Access denied!",
18 "CompanyLogoshow": 0
19 }
20 }
```

## 6.2.2 Setting the Prompt Sound and Interface Display Parameters

### 1. Description

This interface is used for sound playback control of the face machine, display of UI elements and other parameter settings.

### 2. API Description

| Items       | Description                                                                                                                                     |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | <code>SetSound</code>                                                                                                                           |
| Request URL | <code>http://&lt;server ipaddr&gt;/action/SetSound</code> (Where <code>&lt;server ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

### 3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

| <b>Key</b>         | <b>Type</b>    | <b>Values</b>                      | <b>Description</b>                                                                                   |
|--------------------|----------------|------------------------------------|------------------------------------------------------------------------------------------------------|
| operator           | string         | SetSound                           | Setting the prompt sound and interface display parameters                                            |
| info               | JSON Object    |                                    | Concrete content                                                                                     |
| VerifySuccAudio    | int (optional) | 0~1                                | Whether or not to broadcast sound after successful authentication<br>0: No broadcast<br>1: Broadcast |
| VerifyFailAudio    | int (optional) | 0~1                                | Whether to broadcast sound when authentication fails<br>0: No broadcast<br>1: Broadcast              |
| RemoteCtrlAudio    | int (optional) | 0~1                                | Remote control of voice announcements<br>0: No broadcast<br>1: Broadcast                             |
| Volume             | int (optional) | 5~100<br>(Increase every 5 values) | Sound volume value                                                                                   |
| VerifySuccGuiTip   | int (optional) | 0~1                                | Whether or not the authentication success screen prompts<br>0: no prompt<br>1: prompt                |
| VerifyFailGuiTip   | int (optional) | 0~1                                | Whether or not the authentication failure screen prompts<br>0: No prompt<br>1: Prompt                |
| UnregisteredGuiTip | int (optional) | 0~1                                | Is the list not registered screen prompted<br>0: Not prompted<br>1: Prompted                         |
| IPHide             | int (optional) | 0~1                                | Whether the interface IP is hidden or not<br>0: Not hidden<br>1: Hidden                              |

| Key                  | Type                 | Values       | Description                                                                                                                                            |
|----------------------|----------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| IsShowName           | int<br>(optional)    | 0~2          | Successful match, name prompts whether to display<br>0: not displayed<br>1: displayed<br>2: partially displayed (hide the latter part)                 |
| DisplayPicture       | int<br>(optional)    | 0~1          | Images prompted by successful comparison<br>0: Captured image<br>1: Registered image                                                                   |
| IDCardNumHide        | int<br>(optional)    | 0~1          | Whether to hide the card number in the interface( <b>Built-in card models</b> )<br>0: Not hidden<br>1: Hidden                                          |
| ICCardNumHide        | int<br>(optional)    | 0~1          | Whether to hide the IC card number in the interface( <b>Supported except for built-in card models</b> )<br>0: Not hidden<br>1: Hidden                  |
| IsShowDeviceID       | int<br>(optional)    | 0~1          | Whether to display the local ID<br>0: Do not show<br>1: Show                                                                                           |
| IsShowPersonNum      | int<br>(optional)    | 0~1          | Whether to display the number of registered lists<br>0: Not displayed<br>1: Displayed                                                                  |
| VerifyTipContent     | string<br>(optional) | User-defined | Successful authentication UI tips (length of 32 bytes or less, not too long, or lead to incomplete UI display)<br>Default: "Access granted!"           |
| UnregisterTipContent | string<br>(optional) | User-defined | List Unregistered UI tips (32 bytes or less in length, otherwise it causes the UI to display incomplete)<br>Default: "Stranger!"                       |
| BlacklistTipContent  | String<br>(optional) | User-defined | Authentication Failure UI Text Alert (within 32 bytes in length, otherwise it will cause the UI display to be incomplete)<br>Default: "Access denied!" |

| Key                | Type                 | Values       | Description                                                                                                                                               |
|--------------------|----------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| CompanyName        | String<br>(optional) | User-defined | Company name (length of 64 bytes or less, the actual length can be displayed with reference to the UI display parameters) <b>Supported by some models</b> |
| TempLowAudio       | int<br>(optional)    | 0~1          | Whether to turn on low-temperature broadcasting                                                                                                           |
| TempDistance       | int<br>(optional)    | 0~1          | Whether to turn on the temperature measurement distance prompt                                                                                            |
| blsShowTamperAlarm | int<br>(optional)    | 0~1          | Whether tamper-evident is configured<br><b>(requires hardware support)</b>                                                                                |
| CompanyLogoShow    | int<br>(optional)    | 0~1          | Whether to display the company logo<br>0:Do not show<br>1>Show                                                                                            |
| CompanyLogo_X      | int<br>(optional)    | User-defined | When CompanyLogoShow=1, the horizontal coordinate of the logo.                                                                                            |
| CompanyLogo_Y      | int<br>(optional)    | User-defined | When CompanyLogoShow=1, the vertical coordinate of the logo.                                                                                              |
| CompanyLogo_H      | int<br>(optional)    | User-defined | When CompanyLogoShow=1, the height of the logo.                                                                                                           |
| CompanyLogo_W      | int<br>(optional)    | User-defined | When CompanyLogoShow=1, the width of the logo.                                                                                                            |

#### 4. Example of Request Message

```

1 URL of the request:http://172.168.2.10/action/setSound
2 Content of the request:
3 {
4 "operator": "SetSound",
5 "info":{
6 "VerifySuccAudio":1,
7 "VerifyFailAudio":1,
8 "RemoteCtrlAudio":1,
9 "volume":50,
10 "VerifySuccGuitip":1,
11 "VerifyFailGuitip":1,
12 "UnregisteredGuitip":1,
13 "IPHide": 0,
14 "IsShowName": 1,
15 "DisplayPicture": 0,
16 "ICCardNumHide": 0,

```

```

17 "verifyTipContent":"Access granted!",
18 "UnregisterTipContent":"Stranger!",
19 "BlacklistTipContent":"Access denied!"
20 }
21 }
```

## 5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: optional is optional):

| Key      | Type                 | Values   | Description                                                                                                                                       |
|----------|----------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| operator | string               | SetSound | Setting the prompt sound and interface display parameters                                                                                         |
| code     | int                  |          | Command execution error code<br>200-successes, see also <a href="#">7.2 Setting the Prompt Sound and Interface Display Parameters Error Codes</a> |
| info     | JSON Object          |          | Concrete content                                                                                                                                  |
| Result   | string               |          | Operating result                                                                                                                                  |
| Detail   | string<br>(optional) |          | Error message when Result is "Fail"                                                                                                               |

## 6. Example of Reply Message

```

1 {
2 "operator": "SetSound",
3 "code": 200,
4 "info": {
5 "Result": "ok"
6 }
7 }
```

## 6.3 Username and Password

Set the username and password for the Face Recognition All-in-One Machine.

### 6.3.1 Set Username and Password

#### 1. Description

Set the username and password for the Face Recognition All-in-One Machine.

#### 2. API Description

| Items       | Description                                                                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | SetUserPwd                                                                                                                                        |
| Request URL | <code>http://&lt;server ipaddr&gt;/action/SetUserPwd</code> (Where <code>&lt;server ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

### 3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

| Key      | Type        | Values     | Description                                                                |
|----------|-------------|------------|----------------------------------------------------------------------------|
| operator | string      | SetUserPwd | Set the username and password for the Face Recognition All-in-One Machine. |
| info     | JSON Object |            | Concrete content                                                           |
| User     | string      |            | Username, maximum length 64 character length (including terminator)        |
| Pwd      | string      |            | Password, maximum length 64 character length (including terminator)        |

### 4. Example of Request Message

```

1 URL of the request:http://172.168.5.134/action/setUserPwd
2 Content of the request:
3 {
4 "operator": "SetUserPwd",
5 "info": {
6 "User": "admin",
7 "Pwd": "admin"
8 }
9 }
```

### 5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: `optional` is optional):

| Key      | Type              | Values      | Description                                                                                                       |
|----------|-------------------|-------------|-------------------------------------------------------------------------------------------------------------------|
| operator | string            | SetUserPwd  | Set user name and password                                                                                        |
| info     | JSON Object       |             | Concrete content                                                                                                  |
| code     | int               |             | Command execution error code<br>200-successes, see also <a href="#">7.4 Set Username and Password Error Codes</a> |
| Result   | String            | "Ok"/"Fail" | Operating result                                                                                                  |
| Detail   | String (optional) |             | Error message when Result is "Fail"                                                                               |

## 6. Example of Reply Message

```

1 {
2 "operator": "SetUserPwd",
3 "code": 200,
4 "info": {
5 "Result": "ok"
6 }
7 }
```

## 6.4 Network Parameters

The main parameters are IP address of the device, IP subnet mask, IP gateway, web service port number, whether DHCP is enabled or not, default route and so on. Changing IP and other parameters will reboot the device. Currently do not reply to the result after setting.

### 6.4.1 Getting Network Parameters

#### 1. Description

Get the network parameters of the device.

#### 2. API Description

| Items       | Description                                                                                                                                        |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | <code>GetNetParam</code>                                                                                                                           |
| Request URL | <code>http://&lt;server ipaddr&gt;/action/GetNetParam</code> (Where <code>&lt;server ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

#### 3. Example of Request Message

- 1 URL of the request:`http://192.168.2.10/action/GetNetParam`
- 2 Content of the request: (NULL)

#### 4. Explanation of the Paragraph of the Reply Message

Parameter information (Note: optional is optional):

| Key        | Type              | Values      | Description                                                                                                                                  |
|------------|-------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| operator   | string            | GetNetParam | Getting network parameters                                                                                                                   |
| info       | JSON Object       |             | Concrete content                                                                                                                             |
| IPAddr     | string            |             | Device IP address (up to 64 bytes)                                                                                                           |
| Submask    | string            |             | Device IP subnet mask (up to 32 bytes)                                                                                                       |
| Gateway    | string            |             | Device IP gateway (up to 32 bytes)                                                                                                           |
| ListenPort | int               |             | Data service port                                                                                                                            |
| WebPort    | int               |             | Web service port                                                                                                                             |
| DHCP       | int               | 0~1         | DHCP<br>0: disable<br>1: enable ( <b>When enabled, note that it is recommended that the UI interface does not hide the IP</b> )<br>Default 0 |
| DNS1       | string            |             | DNS1                                                                                                                                         |
| DNS2       | string            |             | DNS2                                                                                                                                         |
| NetArp     | int               | 0~1         | Whether to detect ip conflicts regularly                                                                                                     |
| DefRoute   | int<br>(optional) | 0~1         | Default Route ( <b>WiFi/4G version specific</b> )<br>0: Wired Route<br>1: WiFi Route<br>2: 4G                                                |

#### 5. Example of Reply Message

```

1 {
2 "operator": "GetNetParam",
3 "info": {
4 "IPAddr": "192.168.2.10",
5 "Submask": "255.255.255.0",
6 "Gateway": "192.168.2.1",
7 "ListenPort": 5000,
8 "webPort": 80
9 }
10 }

```

## 6.4.2 Setting Network Parameters

### 1. Description

Setting network parameters.

### 2. API Description

| Items       | Description                                                                                                                                        |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | <code>SetNetParam</code>                                                                                                                           |
| Request URL | <code>http://&lt;server ipaddr&gt;/action/SetNetParam</code> (Where <code>&lt;server ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

### 3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

| Key        | Type                 | Values      | Description                                                                                                                                  |
|------------|----------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| operator   | string               | SetNetParam | Setting network parameters.                                                                                                                  |
| info       | JSON Object          |             | Concrete content                                                                                                                             |
| IPAddr     | string<br>(optional) |             | Device IP address (up to 64 bytes)                                                                                                           |
| Submask    | string<br>(optional) |             | Device IP subnet mask (up to 32 bytes)                                                                                                       |
| Gateway    | string<br>(optional) |             | Device IP gateway (up to 32 bytes)                                                                                                           |
| ListenPort | int<br>(optional)    |             | Data service port                                                                                                                            |
| WebPort    | int<br>(optional)    |             | Web service port                                                                                                                             |
| DHCP       | int<br>(optional)    | 0~1         | DHCP<br>0: disable<br>1: enable ( <b>When enabled, note that it is recommended that the UI interface does not hide the IP</b> )<br>Default 0 |
| NetArp     | int<br>(optional)    | 0~1         | Whether to detect ip conflicts regularly                                                                                                     |
| DefRoute   | int<br>(optional)    | 0~2         | Default Route ( <b>WiFi/4G version specific</b> )<br>0: Wired Route<br>1: WiFi Route<br>2: 4G                                                |

#### 4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/SetNetParam
2 Content of the request:
3 {
4 "operator": "SetNetParam",
5 "info": {
6 "IPAddr": "172.168.5.250",
7 "Submask": "255.255.255.0",
8 "Gateway": "172.168.5.1",
9 "ListenPort": "5000",
10 "WebPort": "80"
11 }
12 }
```

## 5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: `optional` is optional):

| Key      | Type                 | Values      | Description                                                                                                        |
|----------|----------------------|-------------|--------------------------------------------------------------------------------------------------------------------|
| operator | string               | SetNetParam | Setting network parameters.                                                                                        |
| info     | JSON Object          |             | Concrete content                                                                                                   |
| code     | int                  |             | Command execution error code<br>200-successes, see also <a href="#">7.5 Setting Network Parameters Error Codes</a> |
| Result   | String               | "Ok"/"Fail" | Operating result                                                                                                   |
| Detail   | String<br>(optional) |             | Error message when Result is "Fail"                                                                                |

## 6. Example of Reply Message

```

1 {
2 "operator": "SetNetParam",
3 "code": 200,
4 "info": {
5 "Result": "ok"
6 }
7 }
```

## 6.5 Time Parameters

Get or set the device's time parameters.

## 6.5.1 Getting the Time Parameters

### 1. Description

Get the current time of the device.

### 2. API Description

| Items       | Description                                                                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | GetSysTime                                                                                                                                        |
| Request URL | <code>http://&lt;server ipaddr&gt;/action/GetSysTime</code> (Where <code>&lt;server ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

### 3. Example of Request Message

- 1 URL of the request:`http://192.168.2.10/action/GetSysTime`
- 2 Content of the request: (NULL)

### 4. Explanation of the Paragraph of the Reply Message

Parameter information(Note: `optional` is optional):

| Key      | Type        | Values     | Description            |
|----------|-------------|------------|------------------------|
| operator | string      | GetSysTime | Get the time parameter |
| info     | JSON object |            | Concrete content       |
| Year     | int         | 1900~      | Year                   |
| Month    | int         | 1~12       | Month                  |
| Day      | int         | 1~31       | Day                    |
| Hour     | int         | 0~23       | Hour                   |
| Minute   | int         | 0~59       | Minute                 |
| Second   | int         | 0~59       | Second                 |

### 5. Example of Reply Message

```

1 {
2 "operator": "GetSysTime",
3 "info": {
4 "Year": 2022,
5 "Month": 12,
6 "Day": 14,
7 "Hour": 10,
8 "Minute": 10,
9 "Second": 18
10 }
11 }
```

## 6.5.2 Setting the Time Parameters

### 1. Description

Set the system to the specified time.

### 2. API Description

| Items       | Description                                                                                                                    |
|-------------|--------------------------------------------------------------------------------------------------------------------------------|
| Operator    | SetsysTime                                                                                                                     |
| Request URL | <code>http://&lt;server ipaddr&gt;/action/SetsysTime</code> (Where <server ipaddr> is the device IP, for example:192.168.1.10) |

### 3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

| Key      | Type        | Values     | Description             |
|----------|-------------|------------|-------------------------|
| operator | string      | SetSysTime | Setting time parameters |
| info     | Json object |            | Concrete content        |
| Year     | int         | 1900~      | Year                    |
| Month    | int         | 1~12       | Month                   |
| Day      | int         | 1~31       | Day                     |
| Hour     | int         | 0~23       | Hour                    |
| Minute   | int         | 0~59       | Minute                  |
| Second   | int         | 0~59       | Second                  |

### 4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/SetSysTime
2 Content of the request:
3 {
4 "operator":"SetSysTime",
5 "info":{
6 "Year":"2017",
7 "Month":"1",
8 "Day":"1",
9 "Hour":"0",
10 "Minute":"0",
11 "Second":"0"
12 }
13 }

```

## 5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: optional is optional):

| Key      | Type                 | Values      | Description                                                                                                        |
|----------|----------------------|-------------|--------------------------------------------------------------------------------------------------------------------|
| operator | string               | SetSysTime  | Setting time parameters                                                                                            |
| info     | JSON Object          |             | Concrete content                                                                                                   |
| code     | int                  |             | Command execution error code<br>200-successes,see also <a href="#">7.6 Setting the Time Parameters Error Codes</a> |
| Result   | String               | "Ok"/"Fail" | Operating result                                                                                                   |
| Detail   | String<br>(optional) |             | Error message when Result is "Fail"                                                                                |

## 6. Example of Reply Message

```

1 {
2 "operator": "SetSysTime",
3 "code": 200,
4 "info": {
5 "Result": "ok"
6 }
7 }

```

## 6.6 NTP Parameters

Get or set the NTP parameters of the device. Network Time Protocol (NTP) is an application layer protocol inside the TCP/IP family of protocols used to synchronize clocks between clients and servers to provide highly accurate time correction.

### 6.6.1 Getting NTP Parameters

#### 1. Description

Get the NTP parameters of the device.

#### 2. API Description

| Items       | Description                                                                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | <code>GetSysNTP</code>                                                                                                                           |
| Request URL | <code>http://&lt;server ipaddr&gt;/action/GetSysNTP</code> (Where <code>&lt;server ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

#### 3. Example of Request Message

- 1 URL of the request:`http://192.168.2.10/action/GetSysNTP`
- 2 Content of the request: (NULL)

#### 4. Explanation of the Paragraph of the Reply Message

Parameter information(Note: `optional` is optional):

| <b>Key</b> | <b>Type</b> | <b>Values</b> | <b>Description</b>                                           |
|------------|-------------|---------------|--------------------------------------------------------------|
| operator   | string      | GetSysNTP     | Get the NTP parameters                                       |
| info       | json object |               | Concrete content                                             |
| NtpEnable  | int         | 0~1           | Whether to Enable NTP Timing<br>0: Not Enabled<br>1: Enabled |
| NtpUrl     | string      |               | NTP server ip address (up to 64 bytes)                       |
| NtpPort    | int         |               | NTP server port                                              |

| Key         | Type         | Values | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------|--------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NtpTimeZone | int          | 1~30   | <p>Time Zone</p> <p>1: (GMT-12:00) International Date Line<br/>     2: (GMT-11:00) Midway, Samoa<br/>     3:(GMT-10:00) Hawaii<br/>     4:(GMT-09:00) Alaska<br/>     5:(GMT-08:00) Pacific(USA and Canada)<br/>     6:(GMT-07:00) Mountain(USA and Canada)<br/>     7:(GMT-06:00) Central (USA and Canada)<br/>     8:(GMT-05:00) Eastern(USA and Canada)<br/>     9:(GMT-04:30) Caracas<br/>     10:(GMT-04:00) Atlantic(Canada)<br/>     11:(GMT-03:30) Newfoundland<br/>     12:(GMT-03:00) Georgetown,Brasilia<br/>     13:(GMT-02:00) Mid-Atlantic<br/>     14:(GMT-01:00) Cape Verde islands, Azores<br/>     15:(GMT+00:00) Dublin, Edinburgh, London<br/>     16:(GMT+01:00) Amsterdam, Berlin, Rome, Paris<br/>     17:(GMT+02:00) Athens, Jerusalem, Istanbul<br/>     18:(GMT+03:00) Baghdad, Kuwait, Moscow<br/>     19:(GMT+03:30) Teheran<br/>     20:(GMT+04:00) Caucasian standard time<br/>     21:(GMT+04:30) Kabul<br/>     22:(GMT+05:00) Islamabad, Karachi, Tashkent<br/>     23:(GMT+05:30) Madras, Mumbai, New Delhi<br/>     24:(GMT+05:45) Katmandu<br/>     25:(GMT+06:00) Almaty, Novosibirsk, Dhaka<br/>     26:(GMT+06:30) Rangoon<br/>     27:(GMT+07:00) Bangkok, Hanoi, Jakarta<br/>     28:(GMT+08:00) Beijing, urumqi, Singapore<br/>     29:(GMT+09:00) Seoul, Tokyo, Osaka, Sapporo<br/>     30:(GMT+09:30) Adelaide, Darwin<br/>     31:(GMT+10:00) Melbourne, Sydney, Canberra<br/>     32:(GMT+11:00) Magadan, Solomon islands<br/>     33:(GMT+12:00) Oakland, Wellington<br/>     34:(GMT+13:00) Nukualofa</p> |
| NtpInterval | unsigned int |        | Ntp calibration time interval in hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## 5. Example of Reply Message

```

1 {
2 "operator": "GetSysNTP",
3 "info": {
4 "NtpEnable": 1,
5 "NtpUrl": "clock.isc.org",
6 "NtpPort": 123,
7 "NtpTimeZone": 25,
8 "NtpInterval": 2
9 }
10 }

```

## 6.6.2 Setting NTP Parameters

### 1. Description

Set the NTP parameters of the device.

### 2. API Description

| Items       | Description                                                                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | <code>SetsysNTP</code>                                                                                                                           |
| Request URL | <code>http://&lt;server_ipaddr&gt;/action/setsysNTP</code> (Where <code>&lt;server_ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

### 3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

| Key       | Type        | Values    | Description                                                  |
|-----------|-------------|-----------|--------------------------------------------------------------|
| operator  | string      | SetSysNTP | Set the NTP parameters                                       |
| info      | json object |           | Concrete content                                             |
| NtpEnable | int         | 0~1       | Whether to Enable NTP Timing<br>0: Not Enabled<br>1: Enabled |
| NtpUrl    | string      |           | NTP server ip address (up to 64 bytes)                       |
| NtpPort   | int         |           | NTP server port                                              |

| Key         | Type         | Values | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------|--------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NtpTimeZone | int          | 1~30   | <p>Time Zone</p> <p>1: (GMT-12:00) International Date Line<br/>     2: (GMT-11:00) Midway, Samoa<br/>     3:(GMT-10:00) Hawaii<br/>     4:(GMT-09:00) Alaska<br/>     5:(GMT-08:00) Pacific(USA and Canada)<br/>     6:(GMT-07:00) Mountain(USA and Canada)<br/>     7:(GMT-06:00) Central (USA and Canada)<br/>     8:(GMT-05:00) Eastern(USA and Canada)<br/>     9:(GMT-04:30) Caracas<br/>     10:(GMT-04:00) Atlantic(Canada)<br/>     11:(GMT-03:30) Newfoundland<br/>     12:(GMT-03:00) Georgetown,Brasilia<br/>     13:(GMT-02:00) Mid-Atlantic<br/>     14:(GMT-01:00) Cape Verde islands, Azores<br/>     15:(GMT+00:00) Dublin, Edinburgh, London<br/>     16:(GMT+01:00) Amsterdam, Berlin, Rome, Paris<br/>     17:(GMT+02:00) Athens, Jerusalem, Istanbul<br/>     18:(GMT+03:00) Baghdad, Kuwait, Moscow<br/>     19:(GMT+03:30) Teheran<br/>     20:(GMT+04:00) Caucasian standard time<br/>     21:(GMT+04:30) Kabul<br/>     22:(GMT+05:00) Islamabad, Karachi, Tashkent<br/>     23:(GMT+05:30) Madras, Mumbai, New Delhi<br/>     24:(GMT+05:45) Katmandu<br/>     25:(GMT+06:00) Almaty, Novosibirsk, Dhaka<br/>     26:(GMT+06:30) Rangoon<br/>     27:(GMT+07:00) Bangkok, Hanoi, Jakarta<br/>     28:(GMT+08:00) Beijing, urumqi, Singapore<br/>     29:(GMT+09:00) Seoul, Tokyo, Osaka, Sapporo<br/>     30:(GMT+09:30) Adelaide, Darwin<br/>     31:(GMT+10:00) Melbourne, Sydney, Canberra<br/>     32:(GMT+11:00) Magadan, Solomon islands<br/>     33:(GMT+12:00) Oakland, Wellington<br/>     34:(GMT+13:00) Nukualofa</p> |
| NtpInterval | unsigned int |        | Ntp calibration time interval in hours.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

#### 4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/SetSysNTP
2 Content of the request:
3 {
4 "operator":"SetSysNTP",
5 "info":{
6 "NtpEnable":0,
7 "NtpUrl":"time.windows.com",
8 "NtpPort":123,
9 "NtpTimeZone":14,
10 "NtpInterval":1
11 }
12 }
```

## 5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: `optional` is optional):

| Key      | Type              | Values      | Description                                                                            |
|----------|-------------------|-------------|----------------------------------------------------------------------------------------|
| operator | string            | SetSysNTP   | Set the NTP parameters                                                                 |
| info     | JSON Object       |             | Concrete content                                                                       |
| code     | int               |             | Command execution error code<br>200-successes, see also <a href="#">7.7 设置NTP参数错误码</a> |
| Result   | String            | "Ok"/"Fail" | Operating result                                                                       |
| Detail   | String (optional) |             | Error message when Result is "Fail"                                                    |

## 6. Example of Reply Message

```

1 {
2 "operator": "SetSysNTP",
3 "code": 200,
4 "info": {
5 "Result": "ok"
6 }
7 }
```

# 6.7 Central Connection Parameters

Get and set the parameters of the device central connection.

## 6.7.1 Get Central Connection Parameters

### 1. Description

Get central connection parameters.

### 2. API Description

| Items       | Description                                                                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | GetCenter                                                                                                                                        |
| Request URL | <code>http://&lt;server ipaddr&gt;/action/GetCenter</code> (Where <code>&lt;server ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

### 3. Example of Request Message

- ```

1 | URL of the request:http://192.168.2.10/action/GetCenter
2 | Content of the request: (NULL)

```

4. Explanation of the Paragraph of the Reply Message

Parameter information (Note: `optional` is optional):

Key	Type	Values	Description
operator	string	GetCenter	Get central connection parameters
info	json object		Concrete content
ConnectCenter	int	0~1	Whether to enable the center connection 0: Disable 1: Enable
CenterUrl	string		Central server ip address (max 64 bytes)
CenterPort	int		Central server port
CenterUser	string		Username, maximum length 64 character length (including terminator)
CenterPwd	string		Password, maximum length 64 character length (including terminator)
SendSnapImage	int	0~1	Whether to send live images 0: Do not send 1: Do send
SendVerifyResult	int	0~1	Whether to send authentication results 0: Do not send 1: Do send

5. Example of Reply Message

```

1  {
2      "operator": "GetCenter",
3      "info": {
4          "ConnectCenter": 1,
5          "CenterUrl": "172.168.5.99",
6          "CenterPort": 6200,
7          "CenterUser": "admin",
8          "CenterPwd": "admin",
9          "SendSnapImage": 1,
10         "SendVerifyResult": 0
11     }
12 }
```

6.7.2 Setting the Central Connection Parameters

1. Description

Set the central connection parameters. Parameters not included in the request message follow the original configuration by default.

2. API Description

Items	Description
Operator	SetCenter
Request URL	<code>http://<server ipaddr>/action/SetCenter</code> (Where <code><server ipaddr></code> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

Key	Type	Values	Description
operator	string	SetCenter	Set the central connection parameters.
info	json object		Concrete content
ConnectCenter	int (optional)	0~1	Set the central connection parameters.
CenterUrl	string (optional)		Central server ip address (max 64 bytes)
CenterPort	int (optional)		Central server port
CenterUser	string (optional)		Username, maximum length 64 character length (including terminator)
CenterPwd	string (optional)		Password, maximum length 64 character length (including terminator)
SendSnapImage	int (optional)	0~1	Whether to send live images 0: Do not send 1: Do send
SendVerifyResult	int (optional)	0~1	Whether to send authentication results 0: Do not send 1: Do send

4. Example of Request Message

```

1 URL of the request:http://192.168.2.10 /action/SetCenter
2 Content of the request:
3 {
4     "operator": "SetCenter",
5     "info": {
6         "ConnectCenter": 0,
7         "CenterUrl": "192.168.2.10",
8         "CenterPort": 6666,
9         "CenterUser": "admin",
10        "CenterPwd": "admin",
11        "SendSnapImage": 1,
12        "SendVerifyResult": 1
13    }
14 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: **optional** is optional):

Key	Type	Values	Description
operator	string	SetCenter	Set the central connection parameters.
info	JSON Object		Concrete content
code	int		Command execution error code 200-successes, see also 7.8 Setting the Central Connection Parameters Error Codes
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```

1  {
2      "operator": "SetCenter",
3      "code": 200,
4      "info": {
5          "Result": "ok"
6      }
7  }
```

6.8 Device Information

Get and set device information.

6.8.1 Getting Device Information

1. Description

Get device information.

2. API Description

Items	Description
Operator	<code>GetSysParam</code>
Request URL	<code>http://<server ipaddr>/action/GetSysParam</code> (Where <code><server ipaddr></code> is the device IP, for example:192.168.1.10)

3. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/GetSysParam
2 Content of the request: (NULL)
```

4. Explanation of the Paragraph of the Reply Message

Parameter information(Note: `optional` is optional):

Key	Type	Values	Description
operator	string	GetSysParam	Getting system device information
info	json object		Concrete content
Name	string		Device name, supports up to 64 characters in length (including terminator)
DeviceID	int		Device ID (not configurable)
Version	string		System software version (not configurable)

5. Example of Reply Message

```
1  {
2      "operator": "GetSysParam",
3      "info": {
4          "Name": "FaceGate",
5          "DeviceID": 1743725,
6          "Version": "v8.52.11.0-L-M-I7-2.5W"
7      }
8 }
```

6.8.2 Setting Device Information

1. Description

Set the device information.

2. API Description

Items	Description
Operator	<code>SetSysParam</code>
Request URL	<code>http://<server ipaddr>/action/SetSysParam</code> (Where <code><server ipaddr></code> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

Key	Type	Values	Description
operator	string	SetSysParam	Set the device information.
info	json object		Concrete content
Name	string (optional)		Device name, supports up to 64 characters in length (including terminator)

4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/SetSysParam
2 Content of the request:
3 {
4     "operator": "SetSysParam",
5     "info": {
6         "Name": "facegate_test"
7     }
8 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: optional is optional):

Key	Type	Values	Description
operator	string	SetSysParam	Set the device information.
info	JSON Object		Concrete content
code	int		Command execution error code 200-successes, see also 7.10 Setting Device Information Error Codes
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```

1 {
2     "operator": "SetSysParam",
3     "code": 200,
4     "info": {
5         "Result": "ok"
6     }
7 }
```

6.9 Face Recognition Parameters

The face recognition parameters are mainly related to the recognition parameters of the 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 detection area of the video screen, and the width and height of the face detection area represent the width and height of the video screen detected based on X and Y. The width and height of the face detection area should be matched with the width and height of the face detection area. The face detection width and height should be used in conjunction with 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 smallest pixel of the face) needs to be changed, and other parameters do not need to be changed again.**

6.9.1 Getting Face Recognition Parameters

1. Description

Get the face recognition parameters.

2. API Description

Items	Description
Operator	GetFaceParam
Request URL	<code>http://<server_ipaddr>/action/GetFaceParam</code> (Where <code><server_ipaddr></code> is the device IP, for example:192.168.1.10)

3. Example of Request Message

- 1 URL of the request:`http://192.168.2.10/action/GetFaceParam`
- 2 Content of the request: (NULL)

4. Explanation of the Paragraph of the Reply Message

Key	Type	Values	Description
operator	string	GetFaceParam	Get the face recognition parameters.
info	JSON object		Concrete content
recDistance	Int	30~200(unit:cm)	recognition distance(cm)
faceMinPixel	Int	0~960	Minimum pixel of the face (deprecated, use recognition distance instead)
detectArea_x	Int	0~960(default 0)	Face detection area X start point (even)
detectArea_y	Int	0~1280(default 0)	Face detection area Y start point (even)
detectArea_w	Int	0~960 (default 960)	Face detection area width (even)
detectArea_h	string	0~1280 (default 1280)	Face detection area height (even)

5. Example of Reply Message

```

1  {
2      "operator": "GetFaceParam",
3      "info": {
4          "recDistance": "200",
5          "faceMinPixel": "122",
6          "detectArea_x": 0,
7          "detectArea_y": 0,
8          "detectArea_w": 960,
9          "detectArea_h": "1280"
10     }
11 }
```

6.9.2 Setting Face Recognition Parameters

1. Description

Set the face recognition parameters.

2. API Description

Items	Description
Operator	SetFaceParam
Request URL	<code>http://<server ipaddr>/action/SetFaceParam</code> (Where <server ipaddr> is the device IP, for example:192.168.1.10)

3. Explanation of the Paragraph of the Requested Message

Parameter information (Note: optional is optional):

Key	Type	Values	Description
operator	string	SetFaceParam	Set the face recognition parameters.
info	JSON object		Concrete content
recDistance	Int (optional)	30~200(unit:cm)	recognition distance(cm)
faceMinPixel	Int (optional)	0~960	Minimum pixel of the face (deprecated, use recognition distance instead)
detectArea_x	Int (optional)	0~960 (default 0)	Face detection area X start point (even)
detectArea_y	Int (optional)	0~1280 (default 0)	Face detection area Y start point (even)
detectArea_w	Int (optional)	0~960 (default 960)	Face detection area width (even)
detectArea_h	Int (optional)	0~1280 (default 1280)	Face detection area height (even)

4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/SetFaceParam
2 Content of the request:
3 {
4     "operator": "SetFaceParam",
5     "info": {
6         "recDistance": "100",
7         "detectArea_x": 0,
8         "detectArea_y": 0,
9         "detectArea_w": 960,
10        "detectArea_h": 1280
11    }
12 }
```

5. Explanation of the Paragraph of the Reply Message

Parameter information (Note: `optional` is optional):

Key	Type	Values	Description
operator	string	SetFaceParam	Set the face recognition parameters.
info	JSON Object		Concrete content
code	int		Command execution error code 200-successes, see also 7.11 Setting Face Recognition Parameters Error Codes
Result	String	"Ok"/"Fail"	Operating result
Detail	String (optional)		Error message when Result is "Fail"

6. Example of Reply Message

```
1 {  
2     "operator": "SetFaceParam",  
3     "code": 200,  
4     "info": {  
5         "Result": "ok"  
6     }  
7 }
```

6.10 Common Configuration Settings

Get or set common parameter configuration information, including black and white list comparison threshold, ID card comparison threshold, control type, device IP address, subnet mask, gateway and other parameters.

6.10.1 Getting Common Configuration Parameters

1. Description

Get information about common configuration parameters.

2. API Description

Items	Description
Operator	<code>GetGeneralParam</code>
Request URL	<code>http://<server_ipaddr>/action/GetGeneralParam</code> (Where <code><server_ipaddr></code> is the device IP, for example: 192.168.1.10)

3. Example of Request Message

- ```

1 URL of the request:http://172.168.2.10/action/GetGeneralParam
2 Content of the request: (NULL)

```

### 4. Explanation of the Paragraph of the Reply Message

Parameter information (Note: optional is optional):

| Key             | Type        | Values          | Description                                                                                            |
|-----------------|-------------|-----------------|--------------------------------------------------------------------------------------------------------|
| operator        | string      | GetGeneralParam | Get information about common configuration parameters.                                                 |
| DeviceID        | int         |                 | ID number of the device to be operated<br>See <a href="#">6.8.1 Getting Device Information</a>         |
| info            | json object |                 | Concrete content                                                                                       |
| FaceThreshold   | int         | 50 ~ 100        | Black and White List comparison threshold                                                              |
| IDCardThreshold | int         | 50 ~ 100        | ID card comparison threshold                                                                           |
| ControlType     | int         | 0~2             | 0:Switching; 1:Wiegand interface 26 bits;<br>2:Wiegand interface 34 bits                               |
| LiveThreshold   | double      | 0~1             | Live detection threshold (not settable)                                                                |
| LiveFrameNum    | int         |                 | Number of consecutive frames for live body detection (not settable)                                    |
| AutoRebootDay   | int         | 0~8             | Device AutoReboot Setting Date<br>0:No reboot;<br>1:Daily reboot;<br>2~8:Weekly AutoRebootDay-1 reboot |
| AutoRebootHour  | int         | 0~23            | Device Reboot Integral Time                                                                            |
| Direction       | int         | 0~2             | Entrance/Exit Direction<br>0:Unidirectional<br>1:Entrance<br>2:Exit                                    |
| IPAddr          | string      |                 | Device Ip address (64 bytes)                                                                           |
| Submask         | string      |                 | Device subnet mask (32 bytes)                                                                          |
| Gateway         | string      |                 | Device gateway (32 bytes)                                                                              |
| DNS             | string      |                 | Device DNS (32 bytes)                                                                                  |

## 5. Example of Reply Message

```
1 | {
2 | "operator": "GetGeneralParam",
3 | "DeviceID": 1743725,
4 | "info": {
5 | "FaceThreshold": 85,
6 | "IDCardThreshold": 50,
7 | "ControlType": 0,
8 | "AutoRebootDay": 0,
9 | "AutoRebootHour": 0,
10 | "Direction": 0,
11 | "IPAddr": "172.168.5.134",
12 | "Submask": "255.255.255.0",
13 | "Gateway": "172.168.5.1",
14 | "DNS": "202.96.134.33"
15 | }
16 | }
```

## 6.10.2 Setting Common Configuration Parameters

### 1. Description

Get information about common configuration parameters.

### 2. API Description

| Items       | Description                                                                                                                                            |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | <code>SetGeneralParam</code>                                                                                                                           |
| Request URL | <code>http://&lt;server_ipaddr&gt;/action/SetGeneralParam</code> (Where <code>&lt;server_ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

### 3. Explanation of the Paragraph of the Requested Message

| <b>Key</b>      | <b>Type</b>       | <b>Values</b>   | <b>Description</b>                                                                                     |
|-----------------|-------------------|-----------------|--------------------------------------------------------------------------------------------------------|
| operator        | string            | SetGeneralParam | Set information about common configuration parameters.                                                 |
| DeviceID        | int               |                 | ID number of the device to be operated<br>See <a href="#">6.8.1 Getting Device Information</a>         |
| info            | json object       |                 | Concrete content                                                                                       |
| FaceThreshold   | int (optional)    | 50 ~ 100        | Black and White List comparison threshold                                                              |
| IDCardThreshold | int (optional)    | 50 ~ 100        | ID card comparison threshold                                                                           |
| ControlType     | int (optional)    | 0~2             | 0:Switching; 1:Wiegand interface 26 bits;<br>2:Wiegand interface 34 bits                               |
| AutoRebootDay   | int (optional)    | 0~8             | Device AutoReboot Setting Date<br>0:No reboot;<br>1:Daily reboot;<br>2~8:Weekly AutoRebootDay-1 reboot |
| AutoRebootHour  | int (optional)    | 0~23            | Device Reboot Integral Time                                                                            |
| Direction       | int (optional)    | 0~2             | Entrance/Exit Direction<br>0:Unidirectional<br>1:Entrance<br>2:Exit                                    |
| IPAddr          | string (optional) |                 | Device Ip address (64 bytes)                                                                           |
| Submask         | string (optional) |                 | Device subnet mask (32 bytes)                                                                          |
| Gateway         | string (optional) |                 | Device gateway (32 bytes)                                                                              |
| DNS             | string (optional) |                 | Device DNS (32 bytes)                                                                                  |

#### 4. Example of Request Message

```

1 URL of the request:http://172.168.2.10/action/SetGeneralParam
2 Content of the request:
3 {

```

```

4 "operator": "SetGeneralParam",
5 "DeviceID": 1305269,
6 "info": {
7 "FaceThreshold": 75,
8 "IDCardThreshold": 50,
9 "ControlType": 0,
10 "Direction": 0,
11 "AutoRebootDay": 0,
12 "AutoRebootHour": 0,
13 "IPAddr": "172.168.2.130",
14 "Submask": "255.255.255.0",
15 "Gateway": "172.168.2.1",
16 "DNS": "202.96.134.33"
17 }
18 }

```

## 5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: `optional` is optional):

| Key      | Type                 | Values          | Description                                                                                                                      |
|----------|----------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------|
| operator | string               | SetGeneralParam | Set information about common configuration parameters.                                                                           |
| info     | JSON Object          |                 | Concrete content                                                                                                                 |
| code     | int                  |                 | Command execution error code<br>200-successes, see also <a href="#">7.12 Setting Common Configuration Parameters Error Codes</a> |
| Result   | String               | "Ok"/"Fail"     | Operating result                                                                                                                 |
| Detail   | String<br>(optional) |                 | Error message when Result is "Fail"                                                                                              |

## 6. Example of Reply Message

```

1 {
2 "operator": "SetGeneralParam",
3 "code": 462,
4 "info": {
5 "Result": "Fail",
6 "Detail": "Unknow DeviceID"
7 }
8 }

```

## 6.11 System Parameters

The system parameters mainly include the system operation parameters of the face recognition machine, such as the device language, ID card reader type, the start and end time point of the vivo detection mode and so on.

### 6.11.1 Getting System Parameters

#### 1. Description

Get the system parameters of the device.

#### 2. API Description

| Items       | Description                                                                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | <code>GetSysCfg</code>                                                                                                                           |
| Request URL | <code>http://&lt;server ipaddr&gt;/action/GetSysCfg</code> (Where <code>&lt;server ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

#### 3. Example of Request Message

- 1 URL of the request:`http://192.168.2.10/action/GetSysCfg`
- 2 Content of the request: (NULL)

#### 4. Explanation of the Paragraph of the Reply Message

Parameter information (Note: `optional` is optional)

| Key               | Type   | Values          | Description                                                                                                                                                                                                                               |
|-------------------|--------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| operator          |        | GetSysCfg       | Get the system parameters of the device.                                                                                                                                                                                                  |
| info              |        |                 | Concrete content                                                                                                                                                                                                                          |
| Language          | int    | 0~9             | Device Language:<br>0:English 1:Chinese Simplified 2:Chinese Traditional 3:Portuguese 4:Korean 5:Russian (supported by special versions) 6:Italian 7:French 8:Spanish 9:Japanese<br>Changing the device language will reboot the machine. |
| DataBaseEnable    | int    | 0~1             | Whether to save record capture+record ID+record authentication<br>0:No<br>1:Yes<br>Default:1, if not turned on, the capture, ID and authentication image data will not be saved.                                                          |
| IDcardType        | int    | Reserve         | Reserve                                                                                                                                                                                                                                   |
| CardReaderType    | int    | Reserve         | Reserve                                                                                                                                                                                                                                   |
| CardOpenDoorWay   | int    | Reserve         | Swipe card door opening method<br>0:Face + card<br>1:Face or card                                                                                                                                                                         |
| FaceDisplay       | int    | 0~1 , default 1 | Whether to display face frame<br>0:No<br>1:Yes                                                                                                                                                                                            |
| LiveDetectType    | int    | 0~2 , default 1 | Live detection mode<br>0: live detection always on<br>1: live detection off<br>2: live detection on by time period                                                                                                                        |
| LiveDetectTimeBeg | String | e.g.,07:00:00   | Live detect daily start point<br>Required when LiveDetectType=2                                                                                                                                                                           |
| LiveDetectTimeEnd | String | e.g.,19:00:00   | Live detect daily end point<br>Required when LiveDetectType=2                                                                                                                                                                             |
| LiveThreshold     | String | e.g.,90.000000  | Live detection threshold (not settable)                                                                                                                                                                                                   |

| Key                  | Type   | Values         | Description                                                                                                                                                     |
|----------------------|--------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LiveFrameNum         | int    |                | The number of consecutive frames for live body detection, the larger the number of frames, the longer the recognition occupation time increases (not settable). |
| LedLightType         | int    | 0~5            | Enable White Light Type<br>0:Never<br>1:Time Control<br>2:Light Sensitive Control<br>3:Face Sense<br>4:Face or Time<br>5:Face or Light Sense                    |
| LedBrightness        | int    |                | Use when white light is enabled                                                                                                                                 |
| LedTimeBeg           | String | e.g.,19:00:00  | White light activation start time per day (white light activation time), required when LedLightType=1,4                                                         |
| LedTimeEnd           | String | e.g.,07:00:00  | White light activation end time per day (white light off time), required when LedLightType=1, 4                                                                 |
| LedDisableAfterSec   | int    |                | How many seconds after no one is there to turn off the white light (face sensing), required when LedLightType=3,4,5.                                            |
| LcdBLDisable         | int    |                | Whether to turn off the screen when no one is present<br>0: Never<br>1:Turn off the screen display when no one is around                                        |
| LcdBLDisableAfterSec | int    |                | How many seconds to turn off the screen after no one is present, required when LcdBLDisable=1                                                                   |
| ScreenBrightness     | int    | Default:50     | Screen brightness (reserved)                                                                                                                                    |
| WebTimeOut           | int    | 2~10 Default:5 | Web page login timeout (minutes)                                                                                                                                |
| SceneSnap            | int    | 0~1            | Whether to enable scene image capture                                                                                                                           |
| NightMode            | int    |                | Night mode on type<br>0: Off<br>1: On by Time<br>2: All Day On                                                                                                  |

| Key          | Type   | Values        | Description               |
|--------------|--------|---------------|---------------------------|
| NightTimeBeg | String | e.g.,19:00:00 | Night start-up time point |
| NightTimeEnd | String | e.g.,07:00:00 | End-of-night time point   |

## 5. Example of Reply Message

```

1 {
2 "operator": "GetSysCfg",
3 "info": {
4 "Language": 1,
5 "DataBaseEnable": 1,
6 "IDcardType": 0,
7 "CardReaderType": 0,
8 "CardOpenDoorway": 0,
9 "FaceDisplay": 0,
10 "LiveDetectType": 0,
11 "LiveDetectTimeBeg": "07:00:00",
12 "LiveDetectTimeEnd": "19:00:00",
13 "LiveThreshold": "90.000000",
14 "LiveFrameNum": 5,
15 "LedLightType": 0,
16 "LedTimeBeg": "19:00:00",
17 "LedTimeEnd": "07:00:00",
18 "LedBrightness": 50,
19 "LedDisableAfterSec": 30,
20 "LcdBLDisable": 0,
21 "LcdBLDisableAfterSec": 30,
22 "ScreenBrightness": 50,
23 "WebTimeOut": 10,
24 "SceneSnap": 0,
25 "NightMode": 1,
26 "NightTimeBeg": "18:00:00",
27 "NightTimeEnd": "21:00:00"
28 }
29 }
```

## 6.11.2 Setting System Parameters

### 1. Description

Set the system parameters. the fields not included in the request message remain unchanged from the original configuration.

### 2. API Description

| Items       | Description                                                                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | <code>Setsyscfg</code>                                                                                                                           |
| Request URL | <code>http://&lt;server ipaddr&gt;/action/Setsyscfg</code> (Where <code>&lt;server ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

### 3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

| Key             | Type              | Values        | Description                                                                                                                                                                                                                                                                          |
|-----------------|-------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| operator        | string            | SetSysCfg     | Set the system parameters                                                                                                                                                                                                                                                            |
| info            |                   |               | Concrete content                                                                                                                                                                                                                                                                     |
| Language        | int<br>(optional) | 0~9           | <p>Device Language:</p> <p>0:English 1:Chinese Simplified<br/>2:Chinese Traditional<br/>3:Portuguese 4:Korean<br/>5:Russian (supported by<br/>special versions) 6:Italian<br/>7:French 8:Spanish<br/>9:Japanese</p> <p>Changing the device language<br/>will reboot the machine.</p> |
| DataBaseEnable  | int<br>(optional) | 0~1           | <p>Whether to save record<br/>capture+record ID+record<br/>authentication</p> <p>0:No<br/>1:Yes</p> <p>Default:1, if not turned on, the<br/>capture, ID and authentication<br/>image data will not be saved.</p>                                                                     |
| IDcardType      | int<br>(optional) | Reserve       | Reserve                                                                                                                                                                                                                                                                              |
| CardReaderType  | int<br>(optional) | Reserve       | Reserve                                                                                                                                                                                                                                                                              |
| CardOpenDoorWay | int<br>(optional) | Reserve       | <p>Swipe card door opening<br/>method</p> <p>0:Face + card<br/>1:Face or card</p>                                                                                                                                                                                                    |
| FaceDisplay     | int<br>(optional) | 0~1,default 1 | <p>Whether to display face frame</p> <p>0:No<br/>1:Yes</p>                                                                                                                                                                                                                           |
| LiveDetectType  | int<br>(optional) | 0~2,default 1 | <p>Live detection mode</p> <p>0: live detection always on<br/>1: live detection off<br/>2: live detection on by time<br/>period</p>                                                                                                                                                  |

| Key                  | Type                                             | Values        | Description                                                                                                                                  |
|----------------------|--------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| LiveDetectTimeBeg    | String<br><b>Required when LiveDetectType=2</b>  | e.g.,07:00:00 | Live detect daily start point                                                                                                                |
| LiveDetectTimeEnd    | String<br><b>Required when LiveDetectType=2</b>  | e.g.,19:00:00 | Live detect daily end point                                                                                                                  |
| LedLightType         | int<br>(optional)                                | 0~5           | Enable White Light Type<br>0:Never<br>1:Time Control<br>2:Light Sensitive Control<br>3:Face Sense<br>4:Face or Time<br>5:Face or Light Sense |
| LedBrightness        | int<br>(optional)                                |               | White light brightness                                                                                                                       |
| LedTimeBeg           | String<br><b>required when LedLightType=1,4</b>  | e.g.,19:00:00 | White light activation start time per day (white light activation time)                                                                      |
| LedTimeEnd           | String<br><b>required when LedLightType=1, 4</b> | e.g.,07:00:00 | White light activation end time per day (white light off time)                                                                               |
| LedDisableAfterSec   | int<br><b>required when LedLightType=3,4,5</b>   |               | How many seconds after no one is there to turn off the white light (face sensing).                                                           |
| BodySensorEnable     | int<br>(optional)                                | 0~1           | Whether to turn on the body sensor                                                                                                           |
| LcdBLDisable         | int<br>(optional)                                |               | Whether to turn off the screen when no one is present<br>0: Never<br>1: Turn off the screen display when no one is around                    |
| LcdBLDisableAfterSec | int<br><b>required when LcdBLDisable=1</b>       | 10~600        | Disable screen when no pass after seconds                                                                                                    |
| ScreenBrightness     | int<br>(optional)                                | Default:50    | Screen brightness (reserved)                                                                                                                 |

| <b>Key</b>   | <b>Type</b>          | <b>Values</b>     | <b>Description</b>                                             |
|--------------|----------------------|-------------------|----------------------------------------------------------------|
| WebTimeOut   | int<br>(optional)    | 2~10<br>default:5 | Web page login timeout<br>(minutes)                            |
| SceneSnap    | int<br>(optional)    | 0~1               | Whether to enable scene<br>image capture                       |
| NightMode    | int<br>(optional)    |                   | Night mode on type<br>0: Off<br>1: On by Time<br>2: All Day On |
| NightTimeBeg | String<br>(optional) | e.g.,19:00:00     | Night start-up time point                                      |
| NightTimeEnd | String<br>(optional) | e.g.,07:00:00     | End-of-night time point                                        |

#### 4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/SetsysCfg
2 Content of the request:
3 {
4 "operator": "SetsysCfg",
5 "info": {
6 "LedLightType": 4,
7 "LedTimeBeg": "19:00:00",
8 "LedTimeEnd": "06:00:00",
9 "ScreenBrightness": 90,
10 "WebTimeOut": 10
11 }
12 }
```

#### 5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: optional is optional):

| Key      | Type              | Values      | Description                                                                                                        |
|----------|-------------------|-------------|--------------------------------------------------------------------------------------------------------------------|
| operator | string            | SetSysCfg   | Setting System Parameters                                                                                          |
| info     | JSON Object       |             | Concrete content                                                                                                   |
| code     | int               |             | Command execution error code<br>200-successes, see also <a href="#">7.13 Setting System Parameters Error Codes</a> |
| Result   | String            | "Ok"/"Fail" | Operating result                                                                                                   |
| Detail   | String (optional) |             | Error message when Result is "Fail"                                                                                |

## 6. Example of Reply Message

```

1 {
2 "operator": "SetSysCfg",
3 "code": 200,
4 "info": {
5 "Result": "ok"
6 }
7 }

```

# 6.12 MQTT Parameters

MQTT parameters are mainly related to the MQTT service operation parameters of the facial recognition machine, setting the important parameters of this interface will make the facial recognition machine and MQTT server reconnect.

## 6.12.1 Getting MQTT Parameters

### 1. Description

Get MQTT parameters.

### 2. API Description

| Items       | Description                                                                                                                                          |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | <code>GetMQTTPParam</code>                                                                                                                           |
| Request URL | <code>http://&lt;server_ipaddr&gt;/action/GetMQTTPParam</code> (Where <code>&lt;server_ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

### 3. Example of Request Message

- |   |                                                                          |
|---|--------------------------------------------------------------------------|
| 1 | URL of the request: <code>http://192.168.2.10/action/GetMQTTParam</code> |
| 2 | Content of the request: (NULL)                                           |

#### 4. Explanation of the Paragraph of the Reply Message

Parameter information (Note: `optional` is optional)

| Key                | Type   | Values       | Description                                                                                                                                                                        |
|--------------------|--------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| operator           |        | GetMQTTParam | Get MQTT parameters.                                                                                                                                                               |
| info               |        |              | Concrete content                                                                                                                                                                   |
| MQEnable           | int    | 0~1          | Enable/disable MQTT service<br>0:Disable<br>1:Enable                                                                                                                               |
| MQCloudID          | String |              | MQTT gate cloud ID number<br>Recommended native ID (e.g.: 1300001)                                                                                                                 |
| MQAddr             | String |              | MQTT cloud address                                                                                                                                                                 |
| MQPort             | int    |              | MQTT cloud port                                                                                                                                                                    |
| MQUser             | String |              | MQTT cloud username                                                                                                                                                                |
| MQPwd              | String |              | MQTT cloud password                                                                                                                                                                |
| MQTopic            | String |              | MQTT cloud Topic                                                                                                                                                                   |
| StrangerUploadType | int    | 0~1          | Whether to upload stranger capture information (default:0)<br><b>0:upload</b><br><b>1:no upload</b>                                                                                |
| RecordUploadType   | int    | 0~2          | Authentication Recognition Information Upload or Not (Default:1)<br>0:No upload<br>1:Recognition Record Upload with Snapshot<br>2:Recognition Record Upload without Snapshot Image |
| Direction          | int    | 0~2          | Entrance/Exit Direction<br>0:Unidirectional<br>1:Entrance<br>2:Exit                                                                                                                |
| QRCode             | int    | 0~1          | Whether to upload QR code scanning result (default:0)<br>0:Not upload<br>1:Upload                                                                                                  |

| Key                  | Type   | Values              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------|--------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ResumefromBreakpoint | int    | 0~1                 | <p>MQTT stranger capture information and identification records whether to enable <code>Continue Transmitting After Disconnection</code> (under enable stranger capture upload or identification records upload mode)</p> <p>0:Not enable<br/>1:Enable</p> <p>Without <code>Continue Transmitting After Disconnection</code> function, it only guarantees to push the data, and it does not need to be returned by the platform (cloud server).</p> <p>Turn on the function, then push the stranger capture information and authentication information need to be returned by the server (see MQTT protocol 9.7 <code>continue Transmitting After Disconnection</code> instructions)</p> <p>10 seconds after the all-in-one machine does not receive the correct data packet from the server, then continue to push this information.</p> |
| BeginTime            | String | YYYY-MM-DDThh:mm:ss | <p>The default start time of MQTT <code>Continue Transmitting After Disconnection</code>, you can leave it blank.</p> <p>Default is the time to set up the stranger capture upload or authentication record upload and enable the <code>Continue Transmitting After Disconnection</code> function. If the stranger capture and authentication record information before the breakpoint is pushed, this time will be changed to the time to finish the <code>Continue Transmitting After Disconnection</code>.e.g., 2020-05-25T09:10:00</p>                                                                                                                                                                                                                                                                                                |
| Alarm                | int    | 0~1                 | Whether alarms are uploaded (default:1)<br>0:not uploaded<br>1:uploaded                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| Key               | Type   | Values      | Description                                                                          |
|-------------------|--------|-------------|--------------------------------------------------------------------------------------|
| KeepAliveInterval | int    | 10~300(Sec) | Application layer heartbeat interval Interval                                        |
| OnlineTopic       | string |             | Topics for online notification                                                       |
| HeartbeatTopic    | string |             | Heartbeat Reporting Topic                                                            |
| IDCard            | int    | 0~1         | Whether to upload ID information<br>(default:1)<br>0:Not uploaded<br>1:Uploaded      |
| Card              | int    | 0~1         | Whether IC or RF card number is uploaded (default:1)<br>0:Not uploaded<br>1:Uploaded |

## 5. Example of Reply Message

```

1 {
2 "operator": "GetMQTTParam",
3 "info": {
4 "MQEnable": 0,
5 "MQAddr": "172.168.2.90",
6 "MQPort": 61613,
7 "MQUser": "admin",
8 "MQPwd": "password",
9 "MQTopic": "mqtt/face/1743725",
10 "MQCloudID": "1743725",
11 "StrangerUploadType": 0,
12 "RecordUploadType": 1,
13 "Direction": 2,
14 "QRCode": 0,
15 "IDCard": 1,
16 "Card": 1,
17 "Alarm": 1,
18 "KeepAliveInterval": 60,
19 "OnlineTopic": "mqtt/face/basic",
20 "HeartbeatTopic": "mqtt/face/heartbeat",
21 "ResumefromBreakpoint": 0,
22 "BeginTime": "2022-12-14T11:24:07"
23 }
24 }
```

## 6.12.2 Setting MQTT Parameters

### 1. Description

Set MQTT parameters.

### 2. API Description

| Items       | Description                                                                                                                                         |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | <code>SetMQTTParam</code>                                                                                                                           |
| Request URL | <code>http://&lt;server_ipaddr&gt;/action/SetMQTTParam</code> (Where <code>&lt;server_ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

### 3. Explanation of the Paragraph of the Requested Message

Parameter information (Note: `optional` is optional)

| Key                | Type                 | Values       | Description                                                                                                                                                                                 |
|--------------------|----------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| operator           |                      | SetMQTTParam | Set MQTT parameters.                                                                                                                                                                        |
| info               |                      |              | Concrete content                                                                                                                                                                            |
| MQEnable           | int<br>(optional)    | 0~1          | Enable/disable MQTT service<br>0:Disable<br>1:Enable                                                                                                                                        |
| MQCloudID          | String<br>(optional) |              | MQTT gate cloud ID number<br>Recommended native<br>ID(e.g:1300001)                                                                                                                          |
| MQAddr             | String<br>(optional) |              | MQTT cloud address                                                                                                                                                                          |
| MQPort             | int<br>(optional)    |              | MQTT cloud port                                                                                                                                                                             |
| MQUser             | String<br>(optional) |              | MQTT cloud username                                                                                                                                                                         |
| MQPwd              | String<br>(optional) |              | MQTT cloud password                                                                                                                                                                         |
| MQTopic            | String<br>(optional) |              | MQTT cloud Topic                                                                                                                                                                            |
| StrangerUploadType | int<br>(optional)    | 0~1          | Whether to upload stranger capture<br>information (default:0)<br><b>0:upload</b><br><b>1:no upload</b>                                                                                      |
| RecordUploadType   | int<br>(optional)    | 0~2          | Authentication Recognition<br>Information Upload or Not (Default:1)<br>0:No upload<br>1:Recognition Record Upload with<br>Snapshot<br>2:Recognition Record Upload without<br>Snapshot Image |
| Direction          | int<br>(optional)    | 0~2          | Entrance/Exit Direction<br>0:Unidirectional<br>1:Entrance<br>2:Exit                                                                                                                         |

| Key                  | Type              | Values | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------|-------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| QRCode               | int<br>(optional) | 0~1    | Whether to upload QR code scanning result (default:0)<br>0:Not upload<br>1:Upload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ResumefromBreakpoint | int<br>(optional) | 0~1    | MQTT stranger capture information and identification records whether to enable <code>Continue Transmitting After Disconnection</code> (under enable stranger capture upload or identification records upload mode)<br>0:Not enable<br>1:Enable<br>Without <code>Continue Transmitting After Disconnection</code> function, it only guarantees to push the data, and it does not need to be returned by the platform (cloud server). Turn on the function, then push the stranger capture information and authentication information need to be returned by the server (see MQTT protocol 9.7 <code>Continue Transmitting After Disconnection</code> transmission instructions)<br>10 seconds after the all-in-one machine does not receive the correct data packet from the server, then continue to push this information. |

| Key               | Type                 | Values              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------|----------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BeginTime         | String<br>(optional) | YYYY-MM-DDThh:mm:ss | The default start time of MQTT<br><code>Continue Transmitting After Disconnection</code> , you can leave it blank. Default is the time to set up the stranger capture upload or authentication record upload and enable the <code>Continue Transmitting After Disconnection</code> function. If the stranger capture and authentication record information before the breakpoint is pushed, this time will be changed to the time to finish the <code>Continue Transmitting After Disconnection</code> . e.g., 2020-05-25T09:10:00 |
| Alarm             | int                  | 0~1                 | Whether alarms are uploaded<br>(default:1)<br>0:not uploaded<br>1:uploaded                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| KeepAliveInterval | int                  | 10~300(Sec)         | Bottom heartbeat interval Interval, defaults to 20 when out of range                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| OnlineTopic       | string               |                     | Topics for online notification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| HeartbeatTopic    | string               |                     | Heartbeat Reporting Topic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| IDCard            | int                  | 0~1                 | Whether to upload ID information<br>(default:1)<br>0:Not uploaded<br>1:Uploaded                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Card              | int                  | 0~1                 | Whether IC or RF card number is uploaded (default:1)<br>0:Not uploaded<br>1:Uploaded                                                                                                                                                                                                                                                                                                                                                                                                                                               |

#### 4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/SetMQTTParam
2 Content of the request:
3 {
4 "operator": "SetMQTTParam",
5 "info": {
6 "StrangerUploadType": 0,
7 "RecordUploadType": 1
8 }
9 }
```

## 5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: `optional` is optional):

| Key      | Type                 | Values       | Description                                                                                                 |
|----------|----------------------|--------------|-------------------------------------------------------------------------------------------------------------|
| operator | string               | SetMQTTParam | Set MQTT parameters.                                                                                        |
| info     | JSON Object          |              | Concrete content                                                                                            |
| code     | int                  |              | Command execution error code<br>200-successes,see also <a href="#">7.14 Set MQTT Parameters Error Codes</a> |
| Result   | String               | "Ok"/"Fail"  | Operating result                                                                                            |
| Detail   | String<br>(optional) |              | Error message when Result is "Fail"                                                                         |

## 6. Example of Reply Message

```

1 {
2 "operator": "SetMQTTParam",
3 "code": 200,
4 "info": {
5 "Result": "ok"
6 }
7 }
```

## 6.13 WiFi Parameters

WiFi parameter mainly involves the device amount WiFi parameter settings, need to be used with the default route in [6.4 Network Parameters](#), **support WiFi models of the device model and version only have this parameter.**

## 6.13.1 Getting WiFi Parameters

### 1. Description

Get the WiFi parameters of the device.

### 2. API Description

| Items       | Description                                                                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | <code>GetNetWiFi</code>                                                                                                                           |
| Request URL | <code>http://&lt;server_ipaddr&gt;/action/GetNetWiFi</code> (Where <code>&lt;server_ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

### 3. Example of Request Message

- 1 URL of the request:`http://192.168.2.10/action/GetNetWiFi`
- 2 Content of the request: (NULL)

### 4. Explanation of the Paragraph of the Reply Message

Parameter information (Note: `optional` is optional):

| Key          | Type        | Values     | Description                                                         |
|--------------|-------------|------------|---------------------------------------------------------------------|
| operator     | string      | GetNetWiFi | Get the WiFi parameters .                                           |
| info         | json object |            | Concrete content                                                    |
| Enable       | int         |            | Whether WiFi is enabled or not<br>0:Not enabled<br>1:Enabled        |
| WorkMode     | int         | Default:0  | Operating mode<br>0:Sta mode                                        |
| SecurityMode | int         | 0~2        | Secure mode<br>0: no encryption<br>1:WPA-PSK/WPA2-PSK<br>2:WPA/WPA2 |
| SSID         | String      |            | SSID(up to 32 bytes)                                                |
| PassWord     | String      |            | Password (up to 128 bytes)                                          |
| DHCP         | int         | 0~1        | DHCP enabled or not<br>0:not enabled<br>1:enabled                   |
| IPAddr       | string      |            | Device ip address (up to 16 bytes), required when DHCP=0            |
| NetMask      | string      |            | Device ip subnet mask (up to 16 bytes), required when DHCP=0        |
| GateWay      | string      |            | Device ip gateway (up to 16 bytes), required when DHCP=0            |
| DNS1         | string      |            | DNS1                                                                |
| DNS2         | string      |            | DNS2                                                                |

## 5. Example of Reply Message

```

1 | {
2 | "operator": "GetNetWiFi",
3 | "info": {
4 | "Enable": 1,
5 | "workMode": 0,
6 | "DHCP": 1,
7 | "SecurityMode": 1,
8 | "SSID": "TP-LINK_4755",
9 | "Password": "testpassword",

```

```

10 "IPAddr": "192.168.1.104",
11 "NetMask": "255.255.255.0",
12 "Gateway": "0.0.0.0",
13 "DNS1": "202.96.134.33",
14 "DNS2": "202.96.134.33"
15 }
16 }
```

## 6.13.2 Setting WiFi Parameters

### 1. Description

Set the WiFi parameters of the device.

### 2. API Description

| Items       | Description                                                                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | <code>SetNetWiFi</code>                                                                                                                           |
| Request URL | <code>http://&lt;server_ipaddr&gt;/action/SetNetWiFi</code> (Where <code>&lt;server_ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

### 3. Explanation of the Paragraph of the Requested Message

Parameter information(Note: `optional` is optional):

| Key          | Type              | Values     | Description                                                         |
|--------------|-------------------|------------|---------------------------------------------------------------------|
| operator     | string            | SetNetWiFi | Set the WiFi parameters of the device.                              |
| info         | json object       |            | Concrete content                                                    |
| Enable       | int (optional)    |            | Whether WiFi is enabled or not<br>0:Not enabled<br>1:Enabled        |
| WorkMode     | int (optional)    | Default:0  | Operating mode<br>0:Sta mode                                        |
| SecurityMode | int (optional)    | 0~2        | Secure mode<br>0: no encryption<br>1:WPA-PSK/WPA2-PSK<br>2:WPA/WPA2 |
| SSID         | String (optional) |            | SSID(up to 32 bytes)                                                |
| PassWord     | String (optional) |            | Password (up to 128 bytes)                                          |
| DHCP         | int (optional)    | 0~1        | DHCP enabled or not<br>0:not enabled<br>1:enabled                   |
| IPAddr       | string (optional) |            | Device ip address (up to 16 bytes), required when DHCP=0            |
| NetMask      | string (optional) |            | Device ip subnet mask (up to 16 bytes), required when DHCP=0        |
| GateWay      | string (optional) |            | Device ip gateway (up to 16 bytes), required when DHCP=0            |
| DNS1         | string (optional) |            | DNS1                                                                |
| DNS2         | string (optional) |            | DNS2                                                                |

#### 4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/SetNetWiFi
2 Content of the request:
3 {
4 "operator": "SetNetWiFi",
5 "info": {

```

```

6 "Enable": 1,
7 "WorkMode": 0,
8 "DHCP": 1,
9 "SecurityMode": 1,
10 "SSID": "TP-LINK_4755",
11 "Password": "testpassword",
12 "IPAddr": "192.168.1.119",
13 "NetMask": "255.255.255.0",
14 "Gateway": "192.168.1.0",
15 "DNS1": "202.96.134.33",
16 "DNS2": "202.96.134.33"
17 }
18 }
```

## 5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: `optional` is optional):

| Key      | Type                 | Values      | Description                                                                                                      |
|----------|----------------------|-------------|------------------------------------------------------------------------------------------------------------------|
| operator | string               | SetNetWiFi  | Set the WiFi parameters of the device.                                                                           |
| info     | JSON Object          |             | Concrete content                                                                                                 |
| code     | int                  |             | Command execution error code<br>200-successes, see also <a href="#">7.15 Setting WiFi Parameters Error Codes</a> |
| Result   | String               | "Ok"/"Fail" | Operating result                                                                                                 |
| Detail   | String<br>(optional) |             | Error message when Result is "Fail"                                                                              |

## 6. Example of Reply Message

```

1 {
2 "operator": "SetNetwifi",
3 "code": 200,
4 "info": {
5 "Result": "ok"
6 }
7 }
```

## 6.14 RTSP Parameters

RTSP parameters are mainly the RTSP operation parameters of the device, set the RTSP parameters successfully **the device will reboot**, currently this interface is only supported in some models.

### 6.14.1 Getting RTSP Parameters

#### 1. Description

Get the RTSP parameters of the device.

#### 2. API Description

| Items       | Description                                                                                                                    |
|-------------|--------------------------------------------------------------------------------------------------------------------------------|
| Operator    | GetRTSPCfg                                                                                                                     |
| Request URL | <code>http://&lt;server ipaddr&gt;/action/GetRTSPCfg</code> (Where <server ipaddr> is the device IP, for example:192.168.1.10) |

#### 3. Example of Request Message

```
1 | URL of the request: http://192.168.2.10/action/GetRTSPCfg
2 | Content of the request: (NULL)
```

#### 4. Explanation of the Paragraph of the Reply Message

Parameter information (Note: optional is optional):

| Key        | Type        | Values                     | Description                                                  |
|------------|-------------|----------------------------|--------------------------------------------------------------|
| operator   | string      | GetRTSPCfg                 | Get the RTSP parameters of the device                        |
| info       | json object |                            | Concrete content                                             |
| OpenVerify | Int         | 0~1                        | Whether to enable RTSP service<br>0:Not enabled<br>1:Enabled |
| PackSize   | Int         | 1~1500<br>( Default:1500 ) | Packing size byte                                            |
| RTSPPort   | Int         |                            | RTSP Port                                                    |

#### 5. Example of Reply Message

```

1 {
2 "operator": "GetRTSPCfg",
3 "info": {
4 "OpenVerify": 0,
5 "Packsize": 1500,
6 "RTSPPort": 554
7 }
8 }

```

## 6.14.2 Setting RTSP Parameters

### 1. Description

Set the RTSP parameters of the device.

### 2. API Description

| Items       | Description                                                                                                                    |
|-------------|--------------------------------------------------------------------------------------------------------------------------------|
| Operator    | SetRTSPCfg                                                                                                                     |
| Request URL | <code>http://&lt;server_ipaddr&gt;/action/SetRTSPCfg</code> (Where <server_ipaddr> is the device IP, for example:192.168.1.10) |

### 3. Explanation of the Paragraph of the Requested Message

Parameter information (Note: `optional` is optional):

| Key        | Type              | Values                     | Description                                                                                    |
|------------|-------------------|----------------------------|------------------------------------------------------------------------------------------------|
| operator   | string            | SetRTSPCfg                 | Set the RTSP parameters of the device.                                                         |
| DeviceID   | int               |                            | ID number of the device to be operated<br>See <a href="#">6.8.1 Getting Device Information</a> |
| info       | json object       |                            | Concrete content                                                                               |
| OpenVerify | Int<br>(optional) | 0~1                        | Whether to enable RTSP service<br>0:Not enabled<br>1:Enabled                                   |
| PackSize   | Int<br>(optional) | 1~1500<br>( Default:1500 ) | Packing size byte                                                                              |
| RTSPPort   | Int<br>(optional) |                            | RTSP port                                                                                      |

### 4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/SetRTSPCfg
2 Content of the request:
3 {
4 "operator": "SetRTSPCfg",
5 "DeviceID":1743725,
6 "info": {
7 "OpenVerify": 1,
8 "Packsize": 1600,
9 "RTSPPort": 500
10 }
11 }

```

## 5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: `optional` is optional):

| Key      | Type                 | Values      | Description                                                                                                      |
|----------|----------------------|-------------|------------------------------------------------------------------------------------------------------------------|
| operator | string               | SetRTSPCfg  | Set the RTSP parameters of the device.                                                                           |
| info     | JSON Object          |             | Concrete content                                                                                                 |
| code     | int                  |             | Command execution error code<br>200-successes, see also <a href="#">7.16 Setting RTSP Parameters Error Codes</a> |
| Result   | String               | "Ok"/"Fail" | Operating result                                                                                                 |
| Detail   | String<br>(optional) |             | Error message when Result is "Fail"                                                                              |

## 6. Example of Reply Message

```

1 {
2 "operator": "SetRTSPCfg",
3 "code": 465,
4 "info": {
5 "Result": "Fail",
6 "Detail": "Device's model can not support this interface"
7 }
8 }

```

## 6.15 Temperature Parameters

The temperature parameters is mainly related to the temperature operation parameter of the face recognition all-in-one machine, **only the models that support temperature detection support these parameter.**

## 6.15.1 Getting Temperature Parameters

### 1. Description

Get the temperature parameters.

### 2. API Description

| Items       | Description                                                                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | <code>GetTemperature</code>                                                                                                                           |
| Request URL | <code>http://&lt;server_ipaddr&gt;/action/GetTemperature</code> (Where <code>&lt;server_ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

### 3. Example of Request Message

- 1 URL of the request:`http://192.168.2.10/action/GetTemperature`
- 2 Content of the request: (`NULL`)

### 4. Explanation of the Paragraph of the Reply Message

Parameter information (Note: `optional` is optional):

| Key                 | Type        | Values                                                             | Description                                                                                                                                                                                                                     |
|---------------------|-------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| operator            | string      | GetTemperature                                                     | Get temperature parameters.                                                                                                                                                                                                     |
| info                | json object |                                                                    | Concrete content                                                                                                                                                                                                                |
| TemperatureMode     | int         | 0~1                                                                | Temperature Display Mode<br>0:Celsius<br>1:Fahrenheit                                                                                                                                                                           |
| ShowAbnormalTemp    | int         | 0~1                                                                | Display abnormal temperature<br>0:Not display<br>1:Display                                                                                                                                                                      |
| TemperatureCheck    | double      | Default :0.00                                                      | Temperature calibration                                                                                                                                                                                                         |
| TempAutoLow         | int         | 0~1(Default 1 )                                                    | Automatically adjusts the low temperature threshold ( <b>Default on will reduce parameter setting problems due to ambient temperature changes</b> )<br>0:No<br>1:Yes                                                            |
| TemperatureLow      | double      | 34.00(Default for C models);<br>28.00(Default except for C models) | Low Temperature Threshold (Detected temperatures below the Low Temperature Threshold will be filtered, <b>when TempAutoLow=1, the Low Temperature Threshold will be adaptive according to the outside ambient temperature</b> ) |
| TemperatureHigh     | double      | Default :37.30                                                     | High Temperature Threshold (detected temperatures above the high temperature threshold will be considered abnormal for body temperature)                                                                                        |
| EnvTemperature      | double      |                                                                    | Ambient temperature ( <b>reserved</b> )                                                                                                                                                                                         |
| EnvTemperatureCheck | double      |                                                                    | Ambient temperature calibration value ( <b>reserved</b> )                                                                                                                                                                       |
| TempFaceMinW        | int         | 100~500                                                            | Minimum face recognition pixel width for temperature measurement<br>The smaller the value, the farther the recognition distance for temperature measurement (default 350).                                                      |

| Key           | Type   | Values  | Description                                                                                                                                                                                |
|---------------|--------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TempFaceMinH  | int    | 50~1000 | Minimum face recognition pixel height, limited to forehead.<br>The smaller the value the smaller the recognition area, the larger the value the larger the recognition area (default 560). |
| bTempTimeHigh | int    | 0~1     | Whether to limit the time period for high temperature detection<br>0: No time period limitation<br>1: Time period limitation                                                               |
| bTempokSwitch | int    | 0~1     | Whether to turn on high-temperature alert<br>0: No<br>1: On                                                                                                                                |
| nFaceLeftUpX  | int    |         | Face position X coordinate                                                                                                                                                                 |
| nFaceLeftUpY  | int    |         | Face position Y coordinate                                                                                                                                                                 |
| BDHC          | double | 40.00   | BDHC:(Supported by special model)                                                                                                                                                          |
| BDLC          | double | 28.00   | BDLC:(Supported by special model)                                                                                                                                                          |
| nTempWay      | int    | 0~1     | Temperature measurement mode:<br>(Supported by special model)<br>0:Precision mode<br>1:Fast mode                                                                                           |
| nTempTimeBeg  | int    |         | High Temperature Detection Start Point<br>Seconds counted from 0:00 of the day                                                                                                             |
| nTempTimeEnd  | int    |         | High temperature detection end point<br>Seconds counted from 0:00 of the day                                                                                                               |

## 5. Example of Reply Message

```

1 {
2 "operator": "GetTemperature",
3 "info": {
4 "TemperatureMode": 0,
5 "ShowAbnormalTemp": 0,
6 "TemperatureCheck": 0.00,
7 "TemperatureLow": 28.00,
8 "TemperatureHigh": 37.30,
9 "EnvTemperature": 0.00,
10 "EnvTemperatureCheck": 0.00,

```

```
11 "OpenLaser": 0,
12 "TempFaceMinW": 350,
13 "TempFaceMinH": 560
14 }
15 }
```

## 6.15.2 Setting Temperature Parameters

### 1. Description

Set the temperature parameters. Fields not included in the request message follow the original configuration by default.

### 2. API Description

| Items       | Description                                                                                                                                                                            |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | SetTemperature                                                                                                                                                                         |
| Request URL | <a href="http://&lt;server_ipaddr&gt;/action/SetTemperature">http://&lt;server_ipaddr&gt;/action/SetTemperature</a> (Where <server_ipaddr> is the device IP, for example:192.168.1.10) |

### 3. Explanation of the Paragraph of the Requested Message

Parameter information (Note: optional is optional):

| Key                 | Type              | Values                                                             | Description                                                                                                                                                                                |
|---------------------|-------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| operator            | string            | SetTemperature                                                     | Set the temperature parameters.                                                                                                                                                            |
| info                | json object       |                                                                    | Concrete content                                                                                                                                                                           |
| DeviceID            | int               |                                                                    | ID number of the device to be operated<br>See <a href="#">6.8.1 Getting Device Information</a>                                                                                             |
| TemperatureMode     | int (optional)    | 0~1                                                                | Temperature display mode<br>0:Celsius<br>1:Fahrenheit                                                                                                                                      |
| ShowAbnormalTemp    | int (optional)    | 0~1                                                                | Display abnormal temperature<br>0:Not display<br>1:Display                                                                                                                                 |
| TemperatureCheck    | double (optional) | 0.0                                                                | Temperature calibration                                                                                                                                                                    |
| TemperatureLow      | double (optional) | 34.00(Default for C models);<br>28.00(Default except for C models) | Low Temperature Threshold                                                                                                                                                                  |
| TemperatureHigh     | double (optional) | 37.3                                                               | High Temperature Threshold ,Default :37.30                                                                                                                                                 |
| EnvTemperature      | double (optional) |                                                                    | Ambient temperature ( <b>reserved</b> )                                                                                                                                                    |
| EnvTemperatureCheck | double (optional) |                                                                    | Ambient temperature calibration value ( <b>reserved</b> )                                                                                                                                  |
| TempFaceMinW        | int (optional)    | 100~500                                                            | Minimum face recognition pixel width for temperature measurement<br>The smaller the value, the farther the recognition distance for temperature measurement (default 350).                 |
| TempFaceMinH        | int (optional)    | 50~1000                                                            | Minimum face recognition pixel height, limited to forehead.<br>The smaller the value the smaller the recognition area, the larger the value the larger the recognition area (default 560). |

| Key           | Type                 | Values          | Description                                                                                                                  |
|---------------|----------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------|
| TempAutoLow   | int<br>(optional)    | 0~1(default 1 ) | Whether to limit the time period for high temperature detection<br>0: No time period limitation<br>1: Time period limitation |
| bTempTimeHigh | int<br>(optional)    | 0~1             | Whether to limit the time period for high temperature detection<br>0: No time period limitation<br>1: Time period limitation |
| bTempokSwitch | int<br>(optional)    | 0~1             | Whether to turn on high-temperature alert<br>0: No<br>1: On                                                                  |
| nFaceLeftUpX  | int<br>(optional)    |                 | Face position X coordinate                                                                                                   |
| nFaceLeftUpY  | int<br>(optional)    |                 | Face position Y coordinate                                                                                                   |
| BDHC          | double<br>(optional) | 40.00           | BDHC:(Supported by special model)                                                                                            |
| BDLC          | double<br>(optional) | 28.00           | BDLC:(Supported by special model)                                                                                            |
| nTempWay      | int<br>(optional)    | 0~1             | Temperature measurement mode:<br>(Supported by special model)<br>0:Precision mode<br>1:Fast mode                             |
| nTempTimeBeg  | int<br>(optional)    |                 | High temperature detection start point<br>Seconds counted from 0:00 of the day                                               |
| nTempTimeEnd  | int<br>(optional)    |                 | High temperature detection end point<br>Seconds counted from 0:00 of the day                                                 |

#### 4. Example of Request Message

```

1 {
2 "operator": "SetTemperature",
3 "info": {
4 "DeviceID": 1305433,
5 "TemperatureMode": 0,
6 "ShowAbnormalTemp": 0,
7 "TemperatureCheck": 0.00,
8 "TemperatureLow": 28.00,

```

```

9 "TemperatureHigh": 37.30,
10 "EnvTemperature": 0.00,
11 "EnvTemperatureCheck": 0.00,
12 "OpenLaser": 0,
13 "TempFaceMinW": 350,
14 "TempFaceMinH": 560
15 }
16 }
```

## 5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: optional is optional):

| Key      | Type                 | Values         | Description                                                                                               |
|----------|----------------------|----------------|-----------------------------------------------------------------------------------------------------------|
| operator | string               | SetTemperature | Set the temperature parameters.                                                                           |
| info     | JSON Object          |                | Concrete content                                                                                          |
| code     | int                  |                | Command execution error code<br>200-successes, see also <a href="#">7.17</a><br><a href="#">设置温度参数错误码</a> |
| Result   | String               | "Ok"/"Fail"    | Operating result                                                                                          |
| Detail   | String<br>(optional) |                | Error message when Result is "Fail"                                                                       |

## 6. Example of Reply Message

```

1 {
2 "operator": "SetTemperature",
3 "code": 200,
4 "info": {
5 "Result": "ok"
6 }
7 }
```

## 6.16 Handshake Protocol Data

Handshake protocol data is mainly related to the customer docking platform can write some data content to the face recognition all-in-one machine to save, generally is the third party's encrypted data content or third-party authentication data, etc., the size of the data content **not more than 4K bytes**.

### 6.16.1 Getting Handshake Protocol Data

#### 1. Description

Get handshake protocol data.

#### 2. API Description

| Items       | Description                                                                                                                          |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | GetHandSharkData                                                                                                                     |
| Request URL | <code>http://&lt;server ipaddr&gt;/action/GetHandsharkData</code> (Where <server ipaddr> is the device IP, for example:192.168.1.10) |

### 3. Example of Request Message

```

1 | URL of the request:http://192.168.2.10/action/GetHandSharkData
2 | Content of the request: (空)

```

### 4. Explanation of the Paragraph of the Reply Message

Parameter information (Note: `optional` is optional):

| Key           | Type        | Values           | Description                           |
|---------------|-------------|------------------|---------------------------------------|
| operator      | string      | GetHandSharkData | Get handshake protocol data.          |
| info          | json object |                  | Concrete content                      |
| HandSharkInfo | string      |                  | Data content, not to exceed 4K bytes. |

### 5. Example of Reply Message

```

1 | {
2 | "operator": "GetHandSharkData",
3 | "info": {
4 | "HandSharkInfo": "new HandSharkInfo!"
5 | }
6 | }

```

## 6.16.2 Setting Handshake Protocol Data

### 1. Description

Set handshake protocol data.

### 2. API Description

| Items       | Description                                                                                                                          |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | SetHandSharkData                                                                                                                     |
| Request URL | <code>http://&lt;server ipaddr&gt;/action/SetHandsharkData</code> (Where <server ipaddr> is the device IP, for example:192.168.1.10) |

### 3. Explanation of the Paragraph of the Requested Message

Parameter information (Note: `optional` is optional):

| Key           | Type        | Values           | Description                                                                                    |
|---------------|-------------|------------------|------------------------------------------------------------------------------------------------|
| operator      | string      | SetHandSharkData | Set handshake protocol data.                                                                   |
| info          | json object |                  | Concrete content                                                                               |
| DeviceID      | int         |                  | ID number of the device to be operated<br>See <a href="#">6.8.1 Getting Device Information</a> |
| HandSharkInfo | string      |                  | Data content, not to exceed 4K bytes.                                                          |

#### 4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/SetHandSharkData
2 Content of the request:
3 {
4 "operator":"SetHandsharkData",
5 "info":{
6 "DeviceID":1743726,
7 "HandsharkInfo":"this is new HandsharkInfo!"
8 }
9 }
```

#### 5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: optional is optional):

| Key      | Type                 | Values               | Description                                                                                                             |
|----------|----------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------|
| operator | string               | HttpSetHandSharkData | Set handshake protocol data.                                                                                            |
| info     | JSON Object          |                      | Concrete content                                                                                                        |
| code     | int                  |                      | Command execution error code<br>200-successes,see also <a href="#">7.42 Setting Handshake Protocol Data Error Codes</a> |
| Result   | String               | "Ok"/"Fail"          | Operating result                                                                                                        |
| Detail   | String<br>(optional) |                      | Error message when Result is "Fail"                                                                                     |

#### 6. Example of Reply Message

```
1 {
2 "operator": "HttpSetHandsharkData",
3 "code": 200,
4 "info": {
5 "Result": "ok"
6 }
7 }
```

## 6.17 GPS Location Information

**Only models with GPS modules support interfaces related to GPS location information.**

### 6.17.1 Getting GPS Location Information

#### 1. Description

Get the current GPS location information of the device.

#### 2. API Description

| Items       | Description                                                                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | GetGpsInfo                                                                                                                                        |
| Request URL | <code>http://&lt;server ipaddr&gt;/action/GetGpsInfo</code> (Where <code>&lt;server ipaddr&gt;</code> is the device IP, for example:192.168.1.10) |

#### 3. Example of Request Message

```
1 | URL of the request:http://172.168.5.227/action/GetGpsInfo
2 | Content of the request: (NULL)
```

#### 4. Explanation of the Paragraph of the Reply Message

Parameter information(Note: `optional` is optional):

| Key              | Type                            | Values     | Description                                                                                                                                                                                                                                                                       |
|------------------|---------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| operator         | string                          | GetGpsInfo | Get the current GPS location information of the device.                                                                                                                                                                                                                           |
| info             | json object                     |            | Concrete content                                                                                                                                                                                                                                                                  |
| GpsState         | string                          |            | GPS module status.:<br>"NotConfigGPSType": The current version of the device does not have a GPS module set<br>"Initiating": GPS module is initializing.<br>"OK": GPS module working properly<br>"NotConncet": GPS module not connected<br>"BadSignal": No signal from GPS module |
| GpsNum           | int                             |            | Number of satellites captured                                                                                                                                                                                                                                                     |
| CoordinateSystem | int                             |            | Coordinate system<br>0: WGS84<br>1: GCJ02<br>Default 0                                                                                                                                                                                                                            |
| Longitude        | double(Retain 5 decimal places) |            | Longitude                                                                                                                                                                                                                                                                         |
| Latitude         | double(Retain 5 decimal places) |            | Latitude                                                                                                                                                                                                                                                                          |
| EorW             | string                          | "E"/"W"    | East/West                                                                                                                                                                                                                                                                         |
| NorS             | string                          | "N"/"S"    | North/South                                                                                                                                                                                                                                                                       |
| Altitude         | double(Retain 1 decimal places) |            | Height above sea level                                                                                                                                                                                                                                                            |
| UtcDate          | string                          | YYYY-MM-DD | UTC Date                                                                                                                                                                                                                                                                          |
| UtcTime          | string                          | hh:mm:ss   | UTC Time                                                                                                                                                                                                                                                                          |

## 5. Example of Reply Message

```

1 {
2 "operator": "GetGpsInfo",
3 "info": {
4 "GpsState": "NotConnect"
5 }
6 }

```

## 6.17.2 Setting GPS Parameters

### 1. Description

Set the current GPS location information of the device.

### 2. API Description

| Items       | Description                                                                                                                                                                    |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator    | SetGpsInfo                                                                                                                                                                     |
| Request URL | <a href="http://&lt;server_ipaddr&gt;/action/SetGpsInfo">http://&lt;server_ipaddr&gt;/action/SetGpsInfo</a> (Where <server_ipaddr> is the device IP, for example:192.168.1.10) |

### 3. Explanation of the Paragraph of the Requested Message

Parameter information (Note: optional is optional):

| Key                  | Type           | Values     | Description                                             |
|----------------------|----------------|------------|---------------------------------------------------------|
| operator             | string         | SetGpsInfo | Set the current GPS location information of the device. |
| info                 | json object    |            | Concrete content                                        |
| CoordinateSystemType | int (optional) | 0~1        | Coordinate system<br>0: WGS84<br>1: GCJ02               |

### 4. Example of Request Message

```

1 URL of the request:http://192.168.2.10/action/SetGpsInfo
2 Content of the request:
3 {
4 "operator": "SetGpsInfo",
5 "info": {
6 "CoordinateSystemType": 0
7 }
8 }

```

### 5. Explanation of the Paragraph of the Reply Message

Parameter information(Note: optional is optional):

| Key      | Type              | Values      | Description                                                                                                               |
|----------|-------------------|-------------|---------------------------------------------------------------------------------------------------------------------------|
| operator | string            | SetGpsInfo  | Setting GPS parameters.                                                                                                   |
| info     | JSON Object       |             | Concrete content                                                                                                          |
| code     | int               |             | Command execution error code<br>200-successes, see also <a href="#">7.44 Setting GPS location Information Error Codes</a> |
| Result   | String            | "Ok"/"Fail" | Operating result                                                                                                          |
| Detail   | String (optional) |             | Error message when Result is "Fail"                                                                                       |

## 6. Example of Reply Message

```
1 {
2 "operator": "SetGpsInfo"
3 "code": 200,
4 "info": {
5 "Result": "ok"
6 }
7 }
```

# 7、Error Code Cross-Reference Table

## 7.1 Setting of Door Opening Conditions and Output Control Parameters Error Codes

| code | Type | String             | Description                                    |
|------|------|--------------------|------------------------------------------------|
| 461  | int  | "Unknow operator"  | "operator" error                               |
| 462  | int  | "Parameter error"  | Failed to get keyword "info".                  |
| 463  | int  | "VerifyMode error" | The "VerifyMode" parameter is set incorrectly. |

## 7.2 Setting the Prompt Sound and Interface Display Parameters Error Codes

| code | Type | String            | Description                   |
|------|------|-------------------|-------------------------------|
| 461  | int  | "Unknow operator" | "operator" error              |
| 462  | int  | "Parameter error" | Failed to get keyword "info". |

## 7.3 Playing Audio Files Error Codes

| code | Type | String                                | Description                                   |
|------|------|---------------------------------------|-----------------------------------------------|
| 461  | int  | "Unknow operator"                     | "operator" error                              |
| 462  | int  | "Parameter error"                     | Failed to get keyword "info".                 |
| 463  | int  | "Unknown DeviceID"                    | The "DeviceID" does not match the device ID.  |
| 464  | int  | "Remote audio control is not enabled" | Remote control playback sound not enabled     |
| 465  | int  | "AudioType error"                     | The "AudioType" parameter is set incorrectly. |
| 466  | int  | "Unknown File"                        | Can't find the audio file to play             |

## 7.4 Set Username and Password Error Codes

| code | Type | String            | Description                   |
|------|------|-------------------|-------------------------------|
| 461  | int  | "Unknow operator" | "operator" error              |
| 462  | int  | "Parameter error" | Failed to get keyword "info". |
| 463  | int  | "Unknown User"    | The "User" field is empty.    |
| 464  | int  | "Unknown Pwd"     | The "Pwd" field is empty.     |

## 7.5 Setting Network Parameters Error Codes

| code | Type | String                        | Description                                           |
|------|------|-------------------------------|-------------------------------------------------------|
| 461  | int  | "Unknow operator"             | "operator" error                                      |
| 462  | int  | "Parameter error"             | Failed to get keyword "info".                         |
| 463  | int  | "IP addr error"               | Invalid IP address in the "IPAddr" field.             |
| 464  | int  | "DHCP enabled, cannot set IP" | The device has DHCP enabled and cannot set IP address |

## 7.6 Setting the Time Parameters Error Codes

| code | Type | String            | Description                   |
|------|------|-------------------|-------------------------------|
| 461  | int  | "Unknow operator" | "operator" error              |
| 462  | int  | "Parameter error" | Failed to get keyword "info". |
| 463  | int  | "Invalid Time"    | Invalid Time                  |

## 7.7 Setting NTP Parameters Error Codes

| code | Type | String            | Description                   |
|------|------|-------------------|-------------------------------|
| 461  | int  | "Unknow operator" | "operator" error              |
| 462  | int  | "Parameter error" | Failed to get keyword "info". |

## 7.8 Setting the Central Connection Parameters Error Codes

| code | Type | String            | Description                   |
|------|------|-------------------|-------------------------------|
| 461  | int  | "Unknow operator" | "operator" error              |
| 462  | int  | "Parameter error" | Failed to get keyword "info". |

## 7.9 Restore Factory Settings Error Codes

| code | Type | String            | Description                   |
|------|------|-------------------|-------------------------------|
| 461  | int  | "Unknow operator" | "operator" error              |
| 462  | int  | "Parameter error" | Failed to get keyword "info". |

## 7.10 Setting Device Information Error Codes

| code | Type | String            | Description                   |
|------|------|-------------------|-------------------------------|
| 461  | int  | "Unknow operator" | "operator" error              |
| 462  | int  | "Parameter error" | Failed to get keyword "info". |

## 7.11 Setting Face Recognition Parameters Error Codes

| code | Type | String            | Description                   |
|------|------|-------------------|-------------------------------|
| 461  | int  | "Unknow operator" | "operator" error              |
| 462  | int  | "Parameter error" | Failed to get keyword "info". |

## 7.12 Setting Common Configuration Parameters Error Codes

| code | Type | String            | Description                                  |
|------|------|-------------------|----------------------------------------------|
| 461  | int  | "Unknow operator" | "operator" error                             |
| 462  | int  | "Unknow DeviceID" | The "DeviceID" does not match the device ID. |
| 463  | int  | "Unknow info"     | Failed to get keyword "info".                |
| 464  | int  | "IP addr error"   | Invalid IP address in the "IPAddr" field.    |

## 7.13 Setting System Parameters Error Codes

| code | Type | String                                              | Description                                      |
|------|------|-----------------------------------------------------|--------------------------------------------------|
| 461  | int  | "Unknow operator"                                   | "operator" error                                 |
| 462  | int  | "Parameter error"                                   | Failed to get keyword "info".                    |
| 463  | int  | "Russian language is not supported in this version" | Russian is not supported in the current version  |
| 464  | int  | "HTTP change LiveDetectType is not authorized"      | No permission to modify LiveDetectType via HTTP. |

## 7.14 Set MQTT Parameters Error Codes

| code | Type | String                                           | Description                                                                                                                  |
|------|------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 461  | int  | "Unknow operator"                                | "operator" error                                                                                                             |
| 462  | int  | "Parameter error"                                | Failed to get keyword "info".                                                                                                |
| 463  | int  | "ResumefromBreakpoint need Topic Snap or Verify" | To enable Continue Transmitting After Disconnection mode, you need to upload at least one of "Strangers" and "Control Logs". |

## 7.15 Setting WiFi Parameters Error Codes

| code | Type | String            | Description                               |
|------|------|-------------------|-------------------------------------------|
| 461  | int  | "Unknow operator" | "operator" error                          |
| 462  | int  | "Parameter error" | Failed to get keyword "info".             |
| 463  | int  | "IP addr error"   | Invalid IP address in the "IPAddr" field. |

## 7.16 Setting RTSP Parameters Error Codes

| code | Type | String                                          | Description                                        |
|------|------|-------------------------------------------------|----------------------------------------------------|
| 461  | int  | "Unknow operator"                               | "operator" error                                   |
| 462  | int  | "Parameter error"                               | Failed to get keyword "info".                      |
| 463  | int  | "Unknow DevicID"                                | The "DevicID" does not match the device ID.        |
| 464  | int  | "RTSPPort error"                                | RTSP port does not match webserver port            |
| 465  | int  | "Device's model can not support this interface" | This interface is not supported by non-Hisi models |

## 7.17 Setting Temperature Parameters Error Codes

| code | Type | String            | Description                                 |
|------|------|-------------------|---------------------------------------------|
| 461  | int  | "Unknow operator" | "operator" error                            |
| 462  | int  | "Parameter error" | Failed to get keyword "info".               |
| 463  | int  | "Unknow DevicID"  | The "DevicID" does not match the device ID. |

## 7.18 Add or Modify Personnel in Bulk Error Codes

| <b>code</b> | <b>Type</b> | <b>String</b>                         | <b>Description</b>                                                                   |
|-------------|-------------|---------------------------------------|--------------------------------------------------------------------------------------|
| 411         | int         | "Unknow operator"                     | "operator" error                                                                     |
| 412         | int         | "Parameter error"                     | Failed to get keyword "info".                                                        |
| 413         | int         | "Unknow DeviceID"                     | The "DeviceID" does not match the device ID.                                         |
| 414         | int         | "UnKnown Total"                       | Failed to get the keyword "Total".                                                   |
| 415         | int         | "Total out of range"                  | Total exceeds the scope limit.                                                       |
| 416         | int         | "json of data and Total is not equal" | Get the value of the json array whose name is not equal to Total.                    |
| 417         | int         | "UnKnown IdType"                      | Failed to get keyword "IdType".                                                      |
| 418         | int         | "IdType error"                        | Incorrect entry of "IdType" value.                                                   |
| 461         | int         |                                       | Failed to get keyword "CustomizeID".                                                 |
| 462         | int         |                                       | Failed to get keyword "PersonUUID".                                                  |
| 464         | int         |                                       | Failed to get image address IP                                                       |
| 465         | int         |                                       | Get URI image timeout or download image failed (note if the device's DNS is correct) |
| 466         | int         |                                       | Failed to get URI image data content (data less than 1000 bytes)                     |
| 467         | int         |                                       | Image data is too large (must not exceed 1M)                                         |
| 468         | int         |                                       | Failed to extract facial features from images                                        |
| 469         | int         |                                       | Failed to write image data to database                                               |
| 470         | int         |                                       | Database insertion list failure                                                      |
| 471         | int         |                                       | Database query for location of deleted items fails                                   |
| 472         | int         |                                       | Database image data rewrite failed                                                   |
| 474         | int         |                                       | The list of database personnel is full                                               |
| 475         | int         |                                       | Wiegand card number "MjCardNo" already exists.                                       |
| 476         | int         |                                       | Failed to get keyword "WGFacilityCode".                                              |
| 477         | int         |                                       | Failed to get keyword "MjCardNo".                                                    |
| 479         | int         |                                       | Failure to modify personnel list information in the database                         |
| 480         | int         |                                       | "RFIDCard" card number already exists.                                               |

| code | Type | String | Description                             |
|------|------|--------|-----------------------------------------|
| 481  | int  |        | Failed to get keyword "picURI".         |
| 482  | int  |        | Failed to read image of existing people |
| 483  | int  |        | The person already exists               |

## 7.19 Add or Modify for Individual Lists Error Codes

| code | Type | String                                                   | Description                                                          |
|------|------|----------------------------------------------------------|----------------------------------------------------------------------|
| 461  | int  | "Unknow operator"                                        | "operator" error                                                     |
| 462  | int  | "Parameter error"                                        | Failed to get keyword "info".                                        |
| 463  | int  | "Unknow DeviceID"                                        | The "DeviceID" does not match the device ID.                         |
| 464  | int  | "Unkonw CustomizedID"                                    | Failed to get keyword "customizedID".                                |
| 465  | int  | "Unkonw LibID"                                           | Failed to get keyword "LibID".                                       |
| 466  | int  | "Unkonw UUID"                                            | Failed to get keyword "UUID".                                        |
| 467  | int  | "Unkonw IdType"                                          | Failed to get keyword "IdType".                                      |
| 468  | int  | "Unkonw Picinfo or Picinfo Base64 decode error"          | "picinfo" image base64 decoding failed                               |
| 469  | int  | "Other"                                                  | Database-related operations fail                                     |
| 470  | int  | "Unkonw ChannelAuthority"                                | Unknown access rights (not in use at this time)                      |
| 471  | int  | "database version does not support the temporary list 2" | Database version does not support temporary list 2                   |
| 472  | int  | "database version does not support the temporary list 3" | Database version does not support temporary list 3                   |
| 473  | int  | "IC_CardNo already exist"                                | RF(ID) card number already exists                                    |
| 474  | int  | "WG_CardNo already exist"                                | Wiegand card number already exists.                                  |
| 475  | int  | "Person already exist"                                   | The person already exists.                                           |
| 477  | int  | "Face Undetected"                                        | No face detected in the image                                        |
| 478  | int  | "Get URI server ip error"                                | Error getting server IP for "picURI".                                |
| 479  | int  | "Get picinfo and connect URI IP error"                   | Failed to connect to "picURI".                                       |
| 480  | int  | "Get URI pic data too short"                             | Image data retrieved based on "picURI" is too short.                 |
| 481  | int  | "get pic and get URI error"                              | Can't find "picinfo" or "picURI" field when adding a list of people. |
| 482  | int  | "InsertPerson2DBWithUUID err"                            | Personnel insertion database error                                   |
| 484  | int  | "HTTP change list is not authorized"                     | No permission to change list via HTTP                                |

## 7.20 Single or Multiple List Deletion Error Codes

| code | Type | String                               | Description                                  |
|------|------|--------------------------------------|----------------------------------------------|
| 461  | int  | "Unknow operator"                    | "operator" error                             |
| 462  | int  | "Parameter error"                    | Failed to get keyword "info".                |
| 463  | int  | "Unknow DeviceID"                    | The "DeviceID" does not match the device ID. |
| 464  | int  | "Unkonw CustomizelD"                 | Failed to get keyword "customizelD".         |
| 465  | int  | "Unkonw LibID"                       | Failed to get keyword "LibID".               |
| 466  | int  | "Unkonw UUID"                        | Failed to get keyword "UUID".                |
| 467  | int  | "Unkonw TotalNum"                    | Failed to get keyword "TotalNum".            |
| 484  | int  | "HTTP change list is not authorized" | No permission to delete list via HTTP.       |

## 7.21 All Lists Delete Error Codes

| code | Type | String                               | Description                           |
|------|------|--------------------------------------|---------------------------------------|
| 461  | int  | "Unknow operator"                    | "operator" error                      |
| 462  | int  | "Parameter error"                    | Failed to get keyword "info".         |
| 484  | int  | "HTTP change list is not authorized" | No permission to delete list via HTTP |

## 7.22 Software Version Upgrade Error Codes

| code | Type | String                                               | Description                                                               |
|------|------|------------------------------------------------------|---------------------------------------------------------------------------|
| 461  | int  | "Parameter error"                                    | "operator" error or failed to get keyword "info".                         |
| 462  | int  | "Can't find Name"                                    | Failed to get keyword "Name".                                             |
| 463  | int  | "Upgrade file download fail"                         | Failed to download upgrade file                                           |
| 464  | int  | "Can't find Path"                                    | Failed to get the keyword "Path" or could not find the upgrade file path. |
| 465  | int  | "opendir Fail"                                       | Failed to open directory                                                  |
| 466  | int  | "Can't find upgrade file"                            | Upgrade file not found                                                    |
| 467  | int  | "Can't find facegate_upgrade.sh"                     | Can't find "facegate_upgrade.sh" script file                              |
| 468  | int  | "Unkonw DevicelD"                                    | The "DevicelD" does not match the device ID.                              |
| 469  | int  | "check upgrade fileInfo error"                       | Failed to verify upgrade file information.                                |
| 470  | int  | "check Platform or Lcdtype error"                    | Error in calibrating platform parameters or LCD screen parameters.        |
| 471  | int  | "get FSVersion error"                                | Error getting "FSVersion"                                                 |
| 472  | int  | "check ALG Version error"                            | Error in the version number of the calibration algorithm                  |
| 473  | int  | "extract upgrade files error"                        | Failed to unzip upgrade zip file                                          |
| 474  | int  | "executable program not find"                        | Executable program not found in upgrade file                              |
| 475  | int  | "Upgrade is not supported for this type's file"      | Upgrade type not supported at this time                                   |
| 476  | int  | "Upgrade wav file failed,please check the fileName"  | Failed to upgrade voice file, please check the file name.                 |
| 477  | int  | "UpgradeType is inconsistent with the download file" | Inconsistency between upgrade type and file type.                         |
| 478  | int  | "The number of customized voice files exceeds 41"    | The number of customized voice files exceeds 41.                          |
| 479  | int  | "The number of ShowInfo Pic files exceeds 10"        | The number of remote door opening UI image files exceeds 10.              |
| 480  | int  | "Please chaeck this pic!"                            | Please check the image file.                                              |
| 482  | int  | "This version CustomID does not match"               | Client code mismatch.                                                     |

| code | Type | String                | Description               |
|------|------|-----------------------|---------------------------|
| 483  | int  | "This version is old" | Algorithm version too low |

## 7.23 Setting HTTP Subscription Parameters Error Codes

| code | Type | String                                                 | Description                                                                                                                               |
|------|------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 461  | int  | "Unknow operator"                                      | "operator" error                                                                                                                          |
| 462  | int  | "Parameter error"                                      | Failed to get keyword "info".                                                                                                             |
| 463  | int  | "Unknow DeviceID"                                      | The "DeviceID" does not match the device ID.                                                                                              |
| 464  | int  | "Unkonw Topic"                                         | Unkonw topic                                                                                                                              |
| 465  | int  | "Wait server start....."                               | Waiting for the server to start up                                                                                                        |
| 466  | int  | "ResumefromBreakpoint<br>need Topic Snap or<br>Verify" | To enable the <code>Continue Transmitting After Disconnection</code> feature, you need to subscribe to the capture or authentication log. |

## 7.24 Unsubscribe Error Codes

| code | Type | String            | Description                                  |
|------|------|-------------------|----------------------------------------------|
| 461  | int  | "Unknow operator" | "operator" error                             |
| 462  | int  | "Parameter error" | Failed to get keyword "info".                |
| 463  | int  | "Unknow DeviceID" | The "DeviceID" does not match the device ID. |
| 464  | int  | "Unkonw Topic"    | Unkonw topic                                 |

## 7.25 Manual Push Control Logging Error Codes

| code | Type | String                                                      | Description                                                                                                                                                                |
|------|------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 462  | int  | "Unknow DeviceID"                                           | The "DeviceID" does not match the device ID.                                                                                                                               |
| 463  | int  | "Unknow TimeS"                                              | Failed to get keyword "TimeS".                                                                                                                                             |
| 464  | int  | "Unknow TimeE"                                              | Failed to get keyword "TimeE".                                                                                                                                             |
| 465  | int  | "HTTP SubscribeInfo error"                                  | HTTP subscription configuration information error<br>(subscription IP, port address format is not correct; did not enable the authentication record subscription function) |
| 466  | int  | "Can't Find any record issue, please check TimeS and TimeE" | Control record not found, check start time and end time                                                                                                                    |

## 7.26 Device Reboot Error Codes

| code | Type | String             | Description                                                                 |
|------|------|--------------------|-----------------------------------------------------------------------------|
| 461  | int  | "Unknow operator"  | "operator" error                                                            |
| 462  | int  | "Unknow Parameter" | Failed to get keyword "info".                                               |
| 463  | int  | "Unkonw DeviceID"  | The "DeviceID" does not match the device ID.                                |
| 464  | int  | "Parameter error"  | Parameter error ("IsRebootDevice" field is missing, or value is not 0 or 1) |

## 7.27 Individual List Search Error Codes

| code | Type | String              | Description                                                         |
|------|------|---------------------|---------------------------------------------------------------------|
| 461  | int  | "Unknow operator"   | "operator" error                                                    |
| 462  | int  | "Parameter error"   | Failed to get keyword "info".                                       |
| 463  | int  | "Unknow DeviceID"   | The "DeviceID" does not match the device ID.                        |
| 464  | int  | "Unkonw SearchType" | Unknown value of "SearchType" (the value of search type is not 0~2) |
| 465  | int  | "Unkonw picinfo"    | Failed to get keyword "Picture".                                    |
| 466  | int  | "Other"             | Reserve                                                             |
| 467  | int  | "Unkonw SearchID"   | The person corresponding to "SearchID" could not be found.          |

## 7.28 Total Number of List Queries Error Codes

| code | Type | String            | Description                                  |
|------|------|-------------------|----------------------------------------------|
| 461  | int  | "Unknow operator" | "operator" error                             |
| 462  | int  | "Parameter error" | Failed to get keyword "info".                |
| 463  | int  | "Unknow DeviceID" | The "DeviceID" does not match the device ID. |

## 7.29 Multiple List Searches Error Codes

| code | Type | String                | Description                                      |
|------|------|-----------------------|--------------------------------------------------|
| 461  | int  | "Unknow operator"     | "operator" error                                 |
| 462  | int  | "Parameter error"     | Failed to get keyword "info".                    |
| 463  | int  | "Unknow DeviceID"     | The "DeviceID" does not match the device ID.     |
| 464  | int  | "Unkonw BeginNO"      | Failed to get keyword "BeginNo".                 |
| 465  | int  | "Unkonw RequestCount" | Failed to get keyword "RequestCount".            |
| 466  | int  | "Unkonw Picture"      | Failed to get keyword "Picture".                 |
| 467  | int  | "Other"               | Reserve                                          |
| 468  | int  | "can't find person"   | No corresponding person information was searched |

## 7.30 The Total Number of Control Log Queried Error Codes

| code | Type | String                        | Description                                                                                                                                                                  |
|------|------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 461  | int  | "Unknow operator"             | "operator" error                                                                                                                                                             |
| 462  | int  | "Parameter error"             | Failed to get keyword "info".                                                                                                                                                |
| 463  | int  | "Unknow DeviceID"             | The "DeviceID" does not match the device ID.                                                                                                                                 |
| 464  | int  | "Unkonw ID"                   | Unknown "ID"<br>(there is no <code>CustomizeID</code> / <code>PersonUUID</code> / <code>LibID</code> counterpart in the device list,<br>or the value of "IdType" is not 0~2) |
| 465  | int  | "Unkonw IdType"               | Failed to get keyword "IdType".                                                                                                                                              |
| 466  | int  | "Unkonw BeginTime or EndTime" | Failed to get keyword "BeginTime" or "EndTime".                                                                                                                              |
| 467  | int  | "Request Number too large"    | Excessive number of requests.                                                                                                                                                |
| 468  | int  | "No Control Record"           | No control logs                                                                                                                                                              |
| 469  | int  | "Other"                       | Other                                                                                                                                                                        |

## 7.31 Control Log Personnel Information Queries Error Codes

| code | Type | String                        | Description                                                                                                                                                                  |
|------|------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 461  | int  | "Unknow operator"             | "operator" error                                                                                                                                                             |
| 462  | int  | "Parameter error"             | Failed to get keyword "info".                                                                                                                                                |
| 463  | int  | "Unknow DeviceID"             | The "DeviceID" does not match the device ID.                                                                                                                                 |
| 464  | int  | "Unkonw ID"                   | Unknown "ID"<br>(there is no <code>CustomizeID</code> / <code>PersonUUID</code> / <code>LibID</code> counterpart in the device list,<br>or the value of "IdType" is not 0~2) |
| 465  | int  | "Unkonw IdType"               | Failed to get keyword "IdType".                                                                                                                                              |
| 466  | int  | "Unkonw BeginTime or EndTime" | Failed to get keyword "BeginTime" or "EndTime".                                                                                                                              |
| 467  | int  | "Request Number too large"    | Excessive number of requests.                                                                                                                                                |
| 468  | int  | "No Control Record"           | No control logs                                                                                                                                                              |
| 469  | int  | "Other"                       | Other                                                                                                                                                                        |

## 7.32 Search for the Total Number of Captured Logs Error Codes

| code | Type | String            | Description                                  |
|------|------|-------------------|----------------------------------------------|
| 461  | int  | "Unknow operator" | "operator" error                             |
| 462  | int  | "Parameter error" | Failed to get keyword "info".                |
| 463  | int  | "Unknow DeviceID" | The "DeviceID" does not match the device ID. |

## 7.33 Capture Log Personnel Information Query Error Codes

| code | Type | String                | Description                                  |
|------|------|-----------------------|----------------------------------------------|
| 461  | int  | "Unknow operator"     | "operator" error                             |
| 462  | int  | "Parameter error"     | Failed to get keyword "info".                |
| 463  | int  | "Unknow DeviceID"     | The "DeviceID" does not match the device ID. |
| 464  | int  | "Unkonw BeginNO"      | Failed to get keyword "BeginNO".             |
| 465  | int  | "Unkonw RequestCount" | Failed to get keyword "RequestCount".        |
| 466  | int  | "Unkonw Picture"      | Failed to get keyword "Picture".             |
| 467  | int  | "Other"               | Other                                        |
| 468  | int  | "can't find person"   | No capture logs were searched                |

## 7.34 Remote Open Door Error Codes

| code | Type | String                     | Description                                                                         |
|------|------|----------------------------|-------------------------------------------------------------------------------------|
| 461  | int  | "Unknow operator"          | "operator" error                                                                    |
| 462  | int  | "Parameter error"          | Failed to get keyword "info".                                                       |
| 463  | int  | "Unknow DeviceID"          | The "DeviceID" does not match the device ID.                                        |
| 464  | int  | "Unkonw Channel"           | Failed to get the keyword "Channel".                                                |
| 465  | int  | "Not Remote Open Type"     | The device is not in remote door-opening mode (the device is in face-opening mode). |
| 466  | int  | "Parameter error no msg"   | Failed to get keyword "msg".                                                        |
| 467  | int  | "Parameter error no state" | Failed to get keyword "status".                                                     |

## 7.35 Image Comparison Similarity Error Codes

| code | Type | String            | Description                                                                                                                                                  |
|------|------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 461  | int  | "Unknow operator" | "operator" error                                                                                                                                             |
| 462  | int  | "Parameter error" | Failed to get keyword "info".                                                                                                                                |
| 463  | int  | "Unknow pic1info" | Failed to get keyword "picinfo1"<br>(may be "picinfo1" field is missing<br>or failed to decode image data base64<br>or failed to extract face feature value) |
| 464  | int  | "Unknow pic2info" | Failed to get keyword "picinfo2"<br>(may be "picinfo2" field is missing<br>or image data base64 decoding failed<br>or unable to extract face feature value)  |

## 7.36 Search for Local Face Database by Image Error Codes

| code | Type | String                      | Description                                                                                                                                                 |
|------|------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 461  | int  | "Unknow operator"           | "operator" error                                                                                                                                            |
| 462  | int  | "Parameter error"           | Failed to get keyword "info".                                                                                                                               |
| 463  | int  | "MaxSimilarity error"       | Failed to get keyword "MaxSimilarity".                                                                                                                      |
| 464  | int  | "MaxNum error"              | Failed to get keyword "MaxNum".                                                                                                                             |
| 465  | int  | "Unknow picinfo"            | Failed to fetch keyword "picinfo"<br>(may be "picinfo" field is missing<br>or image data base64 decoding failed<br>or face features could not be extracted) |
| 466  | int  | "No Meet Conditions Person" | No eligible persons in the local face database                                                                                                              |

## 7.37 Detecting Image Face Error Codes

| code | Type | String            | Description                                                                                                    |
|------|------|-------------------|----------------------------------------------------------------------------------------------------------------|
| 461  | int  | "Unknow operator" | "operator" error                                                                                               |
| 462  | int  | "Parameter error" | Failed to get keyword "info".                                                                                  |
| 463  | int  | "Unknow picinfo"  | Failed to get keyword "picinfo"<br>(may be "picinfo" field is missing<br>or image data base64 decoding failed) |

## 7.38 Manual Snapshot Error Codes

| code | Type | String                                        | Description                                     |
|------|------|-----------------------------------------------|-------------------------------------------------|
| 461  | int  | "Unknow operator"                             | "operator" error                                |
| 462  | int  | "Parameter error"                             | Failed to get keyword "info".                   |
| 463  | int  | "Unkonw DeviceID"                             | The "DeviceID" does not match the device ID.    |
| 464  | int  | "Server Error"                                | Server error (memory allocation failure)        |
| 465  | int  | "Timeout and can not get face pic"            | Timeout, unable to get face map.                |
| 466  | int  | "This Version can not support this interface" | This interface is not supported in this version |

## 7.39 Upload Ads Error Codes

| code | Type | String                      | Description                                  |
|------|------|-----------------------------|----------------------------------------------|
| 461  | int  | "Unknow operator"           | "operator" error                             |
| 462  | int  | "cat not find info"         | Failed to get keyword "info".                |
| 463  | int  | "Unkonw DeviceID"           | The "DeviceID" does not match the device ID. |
| 464  | int  | "Unknow adsolt"             | Failed to get keyword "adsolt".              |
| 465  | int  | "adsolt out of range"       | The value of "adsolt" is out of range.       |
| 466  | int  | "Unknow picture type"       | Unknown picture type                         |
| 467  | int  | "AD picture download error" | Failed to download ad picture.               |

## 7.40 Drop Ads Error Codes

| code | Type | String                | Description                                  |
|------|------|-----------------------|----------------------------------------------|
| 461  | int  | "Unknow operator"     | "operator" error                             |
| 462  | int  | "cat not find info"   | Failed to get keyword "info".                |
| 463  | int  | "Unkonw DeviceID"     | The "DeviceID" does not match the device ID. |
| 464  | int  | "Unknow adsolt"       | Failed to get keyword "adsolt".              |
| 465  | int  | "adsolt out of range" | The value of "adsolt" is out of range.       |

## 7.41 Setting QR Code Image Error Codes

| code | Type | String                                             | Description                                                                  |
|------|------|----------------------------------------------------|------------------------------------------------------------------------------|
| 461  | int  | "Unknow operator"                                  | "operator" error                                                             |
| 462  | int  | "Parameter error"                                  | Failed to get keyword "info".                                                |
| 463  | int  | "can't find QRCodeData Param or Out of limit size" | Failed to get the keyword "QRCodeData", or the data exceeded the size limit. |
| 464  | int  | "This Version can not support this interface"      | This interface is not supported in this version                              |

## 7.42 Setting Handshake Protocol Data Error Codes

| code | Type | String                             | Description                                  |
|------|------|------------------------------------|----------------------------------------------|
| 461  | int  | "Unknow operator"                  | "operator" error                             |
| 462  | int  | "Parameter error"                  | Failed to get keyword "info".                |
| 463  | int  | "Unkonw DeviceID"                  | The "DeviceID" does not match the device ID. |
| 464  | int  | "HttpSetHandSharkInfo Write Error" | Handshake protocol data write failure        |

## 7.43 Get Face Image Error Codes

| code | Type | String              | Description                                                                                                                                                                                                                   |
|------|------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 461  | int  | "Unknow operator"   | "operator" error                                                                                                                                                                                                              |
| 462  | int  | "cat not find info" | Failed to get keyword "info".                                                                                                                                                                                                 |
| 463  | int  | "Unkonw Parameter"  | Parameter error<br>(May be failure to get keyword "dwfiletype",<br>or failure to get keyword "dwfileindex",<br>or failure to get keyword "dwfilepos",<br>or "dwfileindex" exceeds maximum value,<br>or "dwfiletype" is not 0) |
| 464  | int  | "read picinfo fail" | Failed to read image data.                                                                                                                                                                                                    |

## 7.44 Setting GPS location Information Error Codes

| code | Type | String                              | Description                            |
|------|------|-------------------------------------|----------------------------------------|
| 461  | int  | "Device not support this interface" | This interface is not supported        |
| 462  | int  | "Can't get json key 'xxx'"          | Parameter error, field 'xxx' not found |
| 463  | int  | "Key 'xxx' value[yyy] is wrong"     | Parameter error, field value error     |
| 464  | int  | "Save 'xxx' Error"                  | Failed to save configuration xxx       |

## 7.45 Device Keep Open Setting Error Codes

| code | Type | String                        | Description                                 |
|------|------|-------------------------------|---------------------------------------------|
| 461  | int  | "Unknow operator"             | "operator" error                            |
| 462  | int  | "Parameter Info error"        | Failed to get keyword "info".               |
| 463  | int  | "Key[ KeepOpen ] value error" | Error in the value of the "KeepOpen" field. |

## 7.46 Add/Modify Access Strategies Error Codes

| code | Type | String                                  | Description                           |
|------|------|-----------------------------------------|---------------------------------------|
| 461  | int  | "operator error"                        | "operator" error                      |
| 462  | int  | "Parameter error"                       | Failed to get keyword "info".         |
| 463  | int  | "can not find strategyID"               | Failed to get keyword "strategyID".   |
| 464  | int  | "strategyID can not be null or zero"    | The value of strategyID is illegal.   |
| 465  | int  | "can not find startDate"                | Failed to get keyword "startDate".    |
| 466  | int  | "can not find endDate"                  | Failed to get keyword "endDate".      |
| 467  | int  | "can not find allowCnt"                 | Failed to get keyword "allowCnt".     |
| 468  | int  | "db update error"                       | Database update failure               |
| 469  | int  | "Time period setting greater than 6or3" | Number of time periods greater than 6 |

## 7.47 Delete Access Strategies Error Codes

| code | Type | String                               | Description                         |
|------|------|--------------------------------------|-------------------------------------|
| 461  | int  | "operator error"                     | "operator" error                    |
| 462  | int  | "Parameter error"                    | Failed to get keyword "info".       |
| 463  | int  | "can not find strategyID"            | Failed to get keyword "strategyID". |
| 464  | int  | "strategyID can not be null or zero" | The value of strategyID is illegal. |

| errcode | Type | Description                                                             |
|---------|------|-------------------------------------------------------------------------|
| 461     | int  | The value of strategyID is illegal                                      |
| 462     | int  | Failed to delete the pass-through strategy corresponding to strategyID. |

## 7.48 Query All Access Strategies IDs and Names Error Codes

| code | Type | String           | Description      |
|------|------|------------------|------------------|
| 461  | int  | "operator error" | "operator" error |

## 7.49 Query Access Strategy Details by Access Strategy ID Error Codes

| code | Type | String                    | Description                          |
|------|------|---------------------------|--------------------------------------|
| 461  | int  | "operator error"          | "operator" error                     |
| 462  | int  | "Parameter error"         | Failed to get keyword "info".        |
| 463  | int  | "can not find strategyID" | Can't find the "strategyID" keyword. |

## 7.50 Query All Associated Users by Access Strategy ID Error Codes

| code | Type | String                               | Description                              |
|------|------|--------------------------------------|------------------------------------------|
| 461  | int  | "operator error"                     | "operator" error                         |
| 462  | int  | "Parameter error"                    | Failed to get keyword "info".            |
| 463  | int  | "can not find strategyID"            | Can't find the "strategyID" keyword.     |
| 464  | int  | "strategyID can not be null or zero" | The json array in "strategyID" is empty. |

## 7.51 Personnel Binding Access Strategy Error Codes

| code | Type | String                       | Description                              |
|------|------|------------------------------|------------------------------------------|
| 461  | int  | "operator error"             | "operator" error                         |
| 462  | int  | "Parameter error"            | Failed to get keyword "info".            |
| 463  | int  | "can not find personInfo"    | The keyword "personInfo" was not found.  |
| 464  | int  | "personsInfo Json num error" | The json array in "personInfo" is empty. |

| errcode | Type | Description                                                            |
|---------|------|------------------------------------------------------------------------|
| 461     | int  | The person corresponding to PersonUUID/CustomizeID could not be found. |
| 462     | int  | Can't find the "strategyID" keyword.                                   |
| 463     | int  | The json array in "strategyID" is empty.                               |

## 7.52 Personnel Unbinding Access Strategy Error Codes

| code | Type | String                       | Description                              |
|------|------|------------------------------|------------------------------------------|
| 461  | int  | "operator error"             | "operator" error                         |
| 462  | int  | "Parameter error"            | Failed to get keyword "info".            |
| 463  | int  | "can not find personInfo"    | The keyword "personInfo" was not found.  |
| 464  | int  | "personsInfo Json num error" | The json array in "personInfo" is empty. |

| errcode | Type | Description                                                            |
|---------|------|------------------------------------------------------------------------|
| 461     | int  | The person corresponding to PersonUUID/CustomizeID could not be found. |
| 462     | int  | Can't find the "strategyID" keyword.                                   |
| 463     | int  | The json array in "strategyID" is empty.                               |