

商汤科技

—

# SenseStudio V2.0 Platform

## API Document

[www.sensetime.com](http://www.sensetime.com)

PRODUCT  
MANUAL



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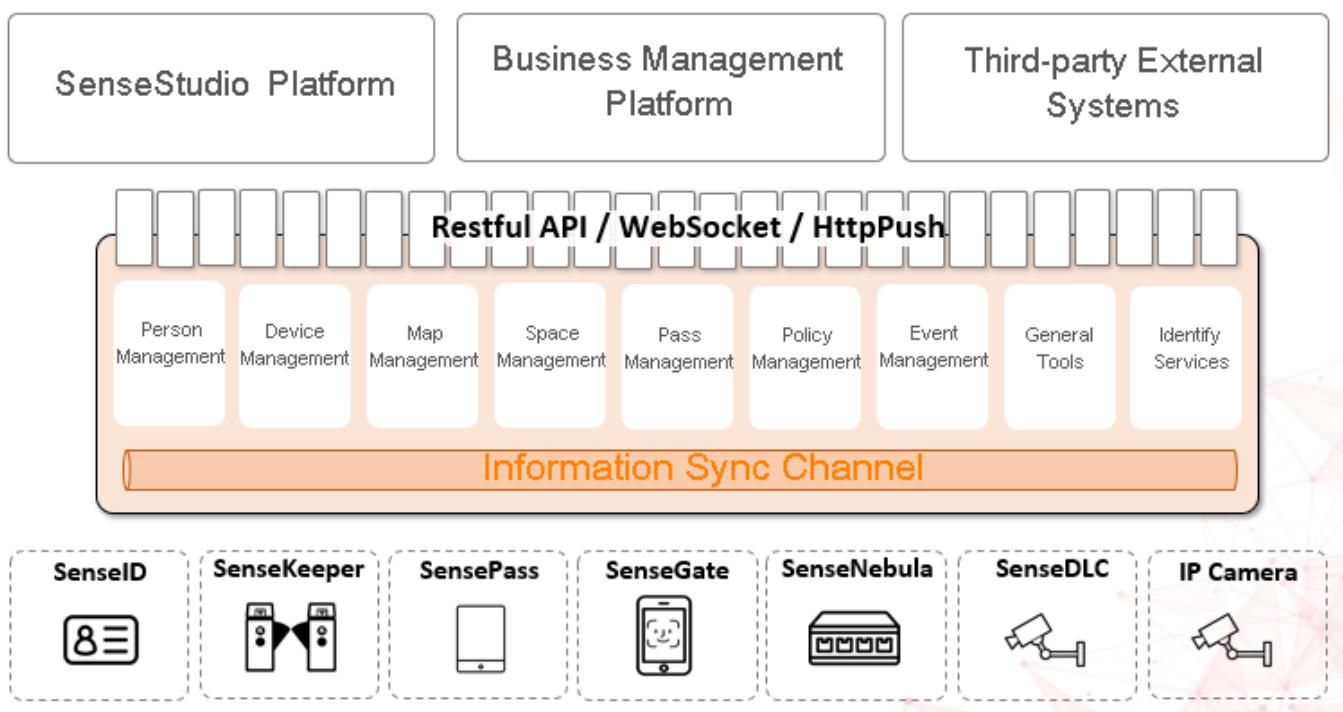
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# 1 Introduction

## 1.1 Architecture Overview



SenseStudio provides RESTful APIs to expose the capabilities. Applications can leverage the RESTful APIs to interact with the data from SenseStudio. Third-party systems can also integrate with SenseStudio using APIs. Besides, SenseStudio can push internal events to external systems through HTTP Push for further business processing.

## 1.2 Invoking the APIs

### 1.2.1 External Account Setup

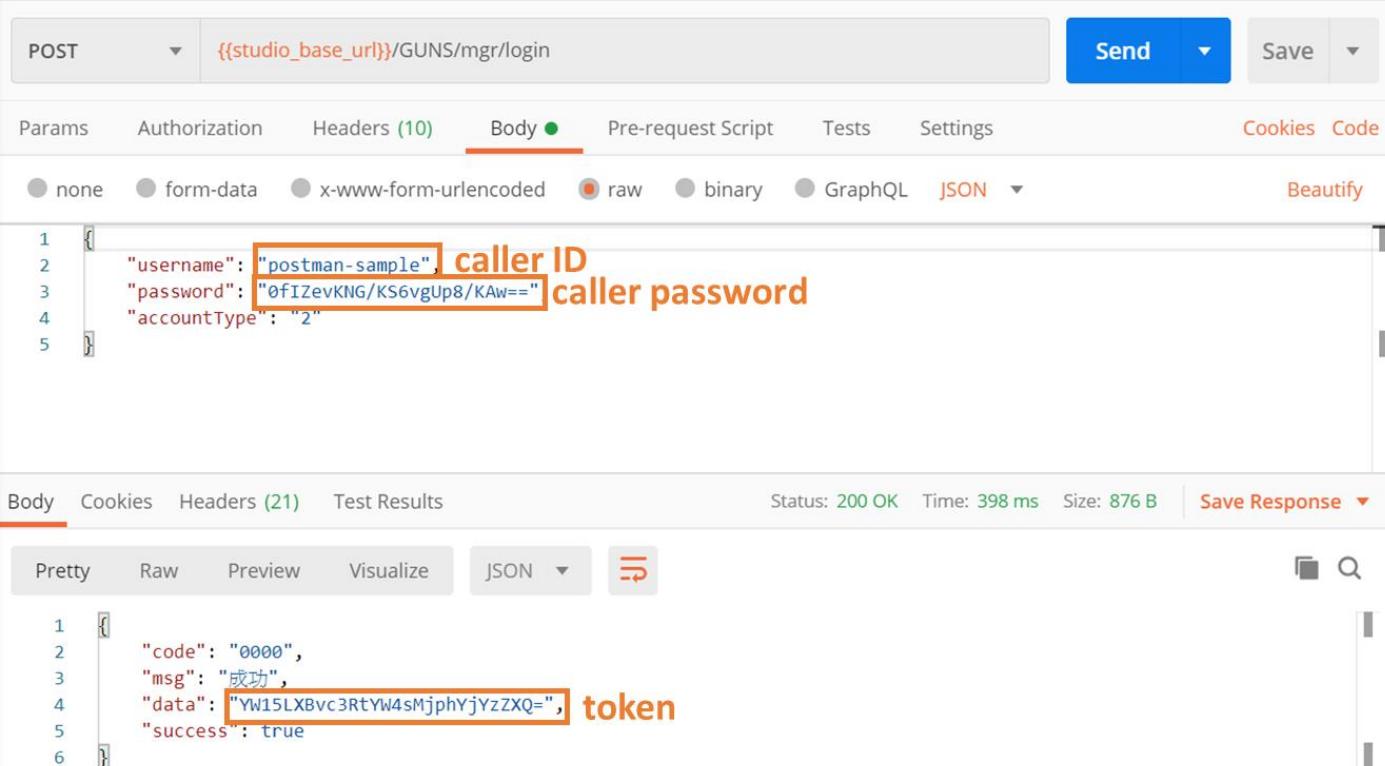
You have to obtain an external account for API authentication and authorization. Please refer to [《SenseStudio V2.0 User Manual Cloud Version》 - 7.1 External Account](#) for account creation and permission assignment.

### 1.2.2 Access Token

Prior to invoking the APIs, you have to obtain an access token.

**Step 1.** Obtain an access token by invoking `/GUNS/mgr/login`.

<b>username</b>	Name of the external account.
<b>password</b>	Password of the external account.
<b>accountType</b>	2 for API call



The screenshot shows a POST request to `{{studio_base_url}}/GUNS/mgr/login`. The Body is set to JSON and contains the following data:

```

1  {
2    "username": "postman-sample", caller ID
3    "password": "0fIzevKNG/KS6vgUp8/KAw==", caller password
4    "accountType": "2"
5  }

```

The response status is 200 OK, with a response body containing:

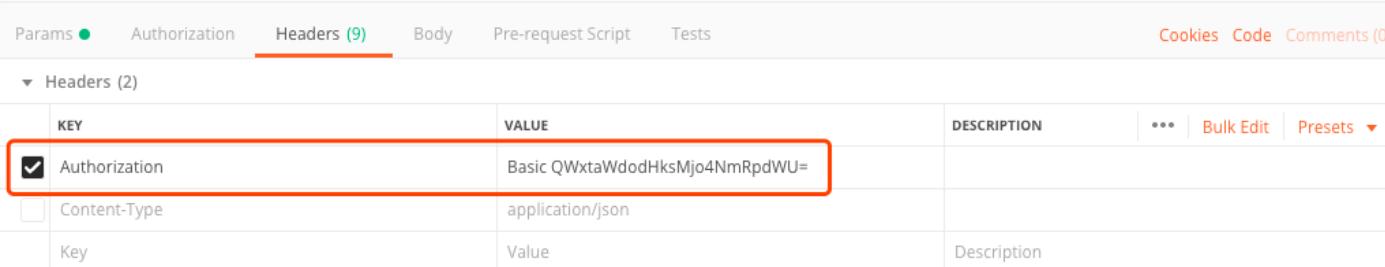
```

1  {
2    "code": "0000",
3    "msg": "成功",
4    "data": "YW15LXBvc3RtYW4sMjphYjYzzXQ=", token
5    "success": true
6  }

```

**Step 2.** Put the token into the header for basic auth.

KEY	Authorization
VALUE	Basic {{token}}



The Headers section shows the following configuration:

KEY	VALUE	DESCRIPTION
Authorization	Basic QWxtaWdodHksMjo4NmRpduU=	
Content-Type	application/json	
Key	Value	Description

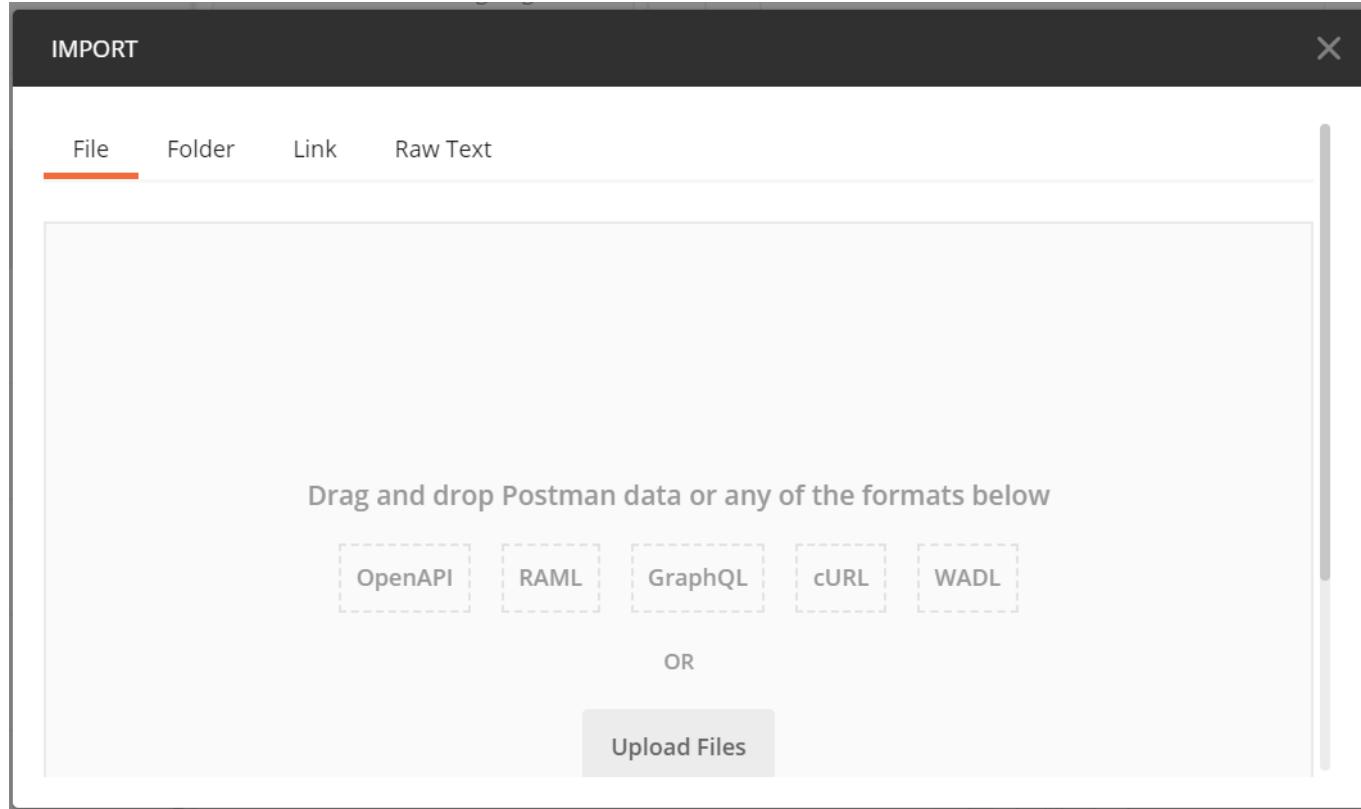
### 1.2.3 Postman Sample

SenseStudio provides API request samples for Postman. Please contact SenseTime team for the sample file "SenseStudio V2.0 Postman Sample Cloud Version yyyyMMdd.postman\_collection.json".

**Step 1.** Launch the Postman app.

## Importing Files

**Step 2.** Click "Import" in the upper-left corner of the Postman app.



**Step 3.** Upload the above json file and click "Import".

IMPORT X

Confirm your import

Double check the format is correct and select what you want to import the file as.

NAME	FORMAT	IMPORT AS
SenseStudio V2.0 Postman Sample Cloud Version	Postman Collection v2.1	Collection

Cancel Import

The imported data will be presented on the left.

FilterHistoryCollectionsAPIs

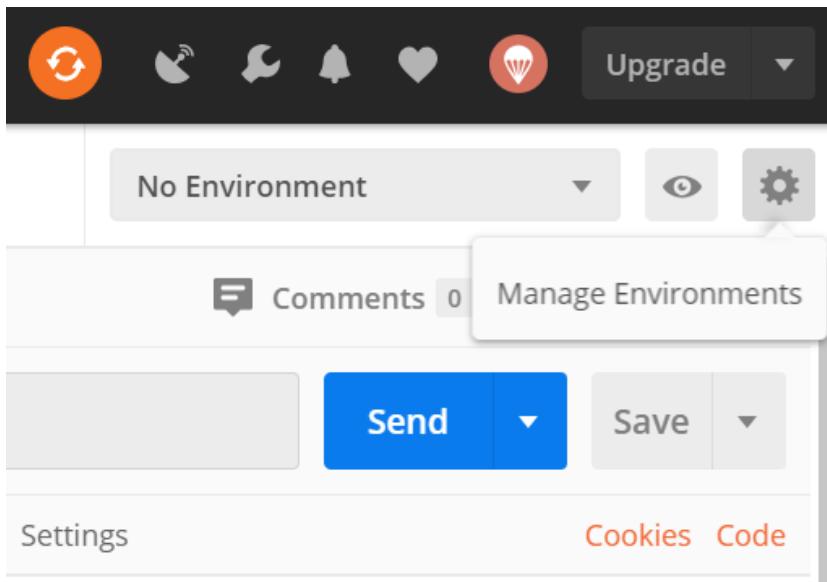
+ New Collection Trash

SenseStudio V2.0 Postman Sample Cloud Version 107 requests

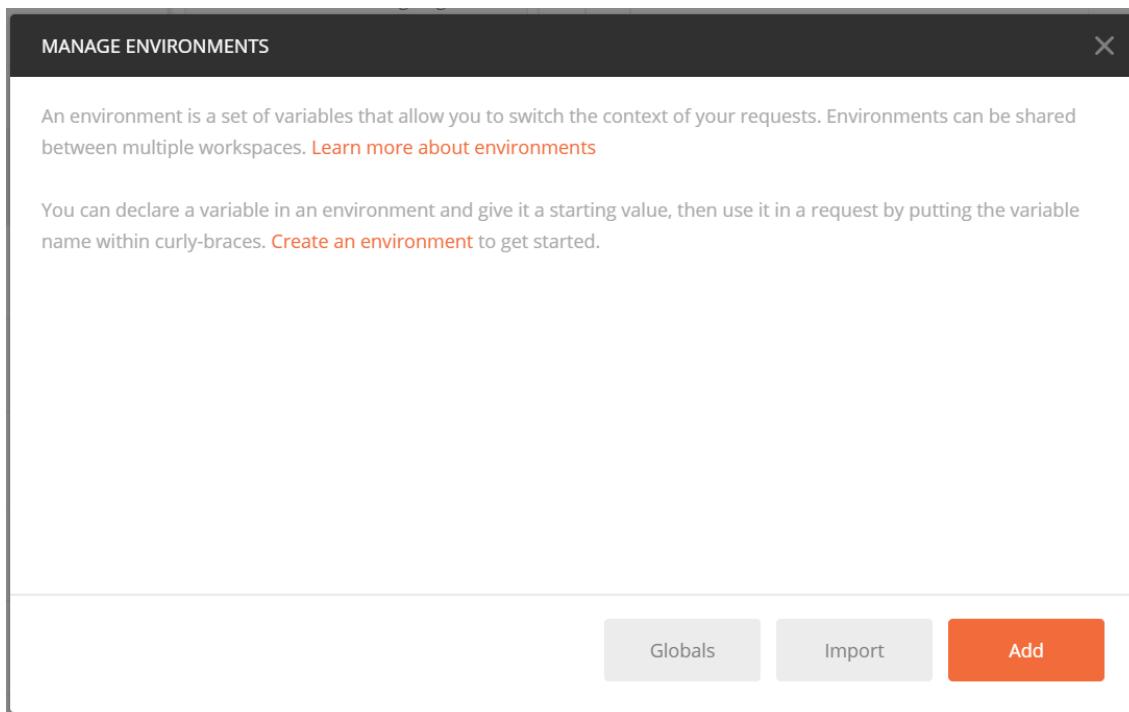
▶ 01.Get Access Token  
▶ 02.Person API  
▶ 03.Device API  
▶ 04.Map API  
▶ 05.Gate Control Policy API  
▶ 06.Monitor Policy API  
▶ 07.Event Handler API  
▶ 08.Utility API  
▶ 09.Cognitive API

## Creating Environments

**Step 4.** Create a new environment by clicking "Manage Environments" at the top right corner.



**Step 5.** Click "Add" to create a new environment.



**Step 6.** Name the environment and add required variables for SenseStudio sample. Click "Add" to save the configurations.

VARIABLE	CURRENT VALUE
studio_base_url	SenseStudio server base URL. E.g. https://hostserver

token	Access token retrieved from /GUNS/mgr/login
-------	---

MANAGE ENVIRONMENTS

Add Environment

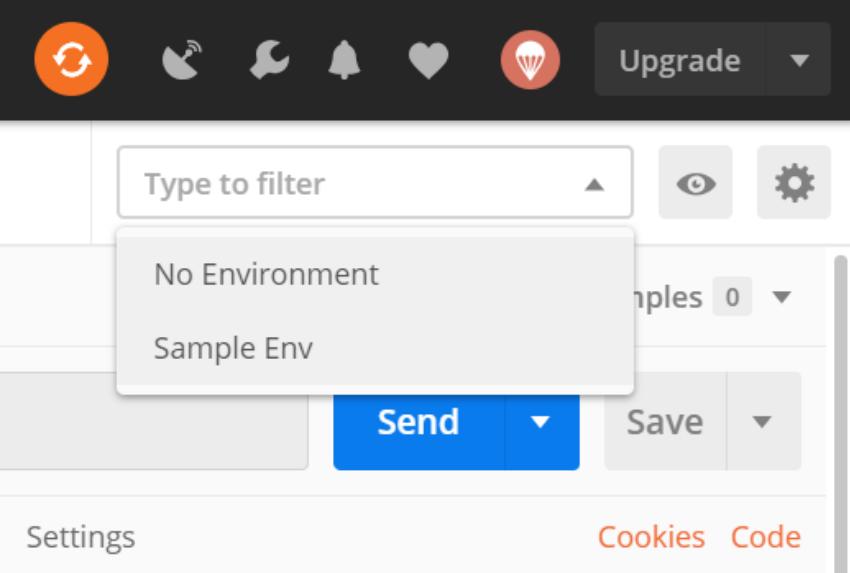
Sample Env

VARIABLE	INITIAL VALUE <small>i</small>	CURRENT VALUE <small>i</small>	...	Persist All	Reset All
<input checked="" type="checkbox"/> studio_base_url		http://hostserver	X	...	
<input checked="" type="checkbox"/> token		YW15LXBvc3RtYW4sMjpvcnQzZ3M=			
Add a new variable					

i Use variables to reuse values in different places. The current value is used while sending a request and is never synced to Postman's servers. The initial value is auto-updated to reflect the current value. [Change](#) x [this behaviour from Settings. Learn more about variable values](#)

Cancel Add

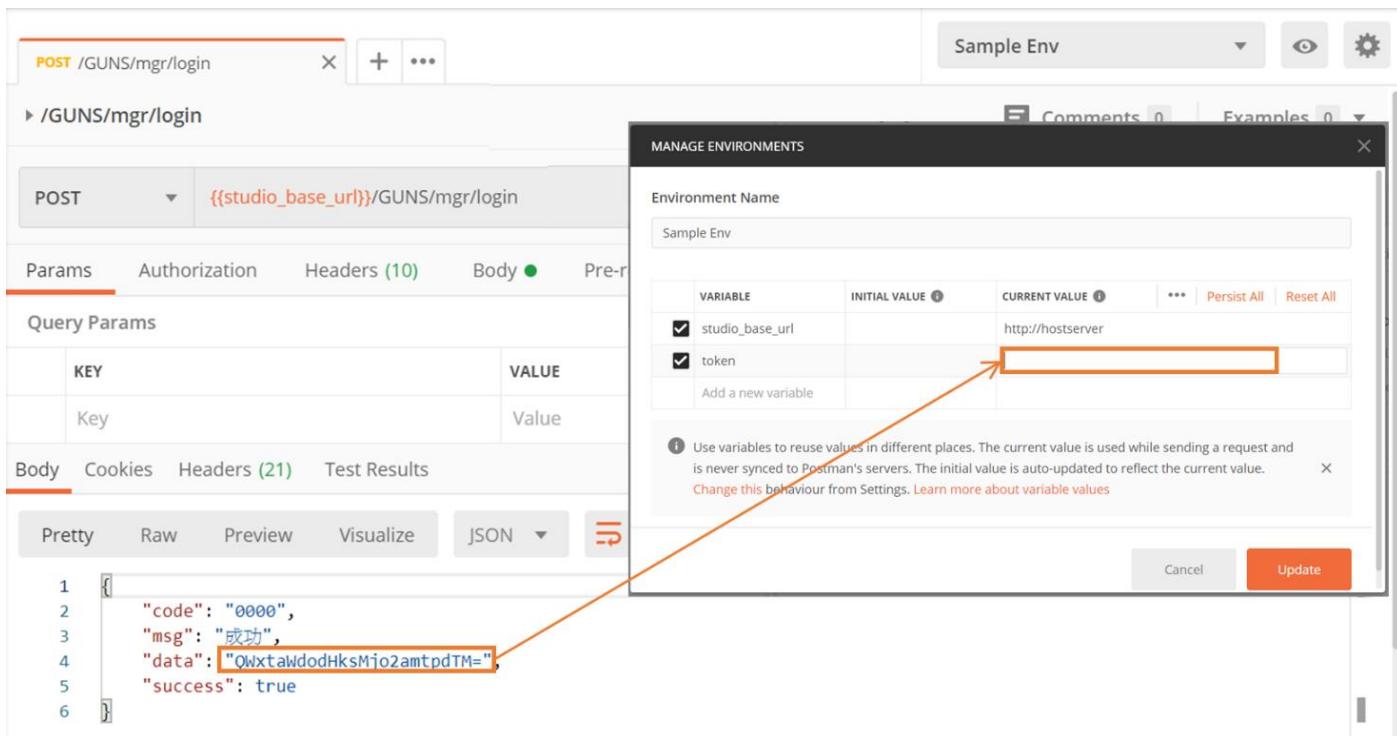
**Step 7.** Select the new created environment for invoking SenseStudio APIs.



The screenshot shows the Postman interface. At the top, there is a toolbar with icons for refresh, collection, snippet, bell, heart, and a red circular icon. To the right of the icons is an "Upgrade" button with a dropdown arrow. Below the toolbar is a search bar labeled "Type to filter". Underneath the search bar is a dropdown menu showing two options: "No Environment" and "Sample Env". The "Sample Env" option is currently selected. Further down, there are buttons for "Send" (blue) and "Save" (grey). At the bottom of the interface, there are tabs for "Settings" and "Cookies" (highlighted in orange) and "Code".

#### Obtain token and update environment variable

**Step 8.** Obtain the token by invoking `/GUNS/mgr/login`. Update the token to the environment setting.



The screenshot shows the Postman interface. On the left, a request is defined for `POST /GUNS/mgr/login`. The `Body` tab contains a JSON response:

```

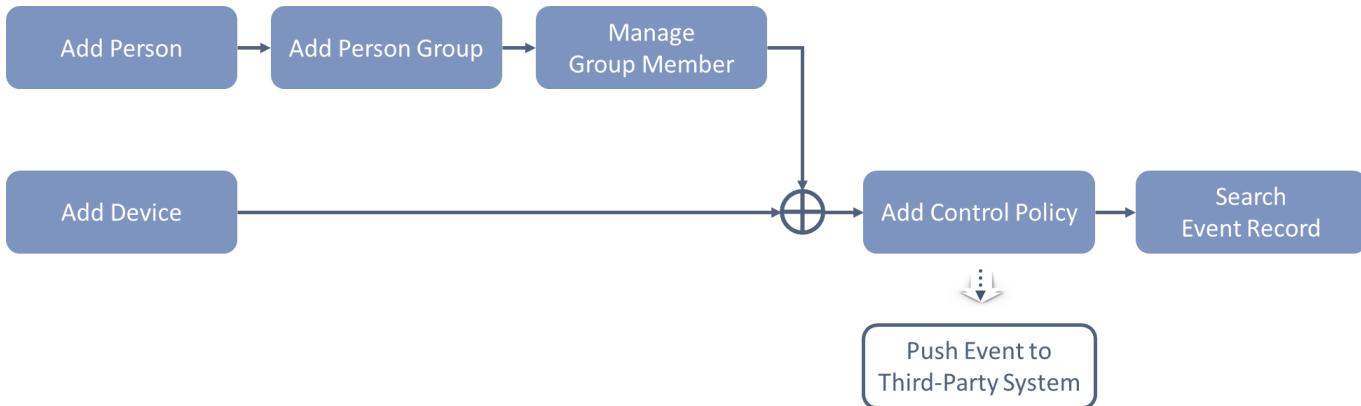
1  {
2   "code": "0000",
3   "msg": "成功",
4   "data": "OwxtawdodHksMjo2amtpdTM=",
5   "success": true
6 }

```

On the right, a modal window titled "MANAGE ENVIRONMENTS" is open, showing environment variables. The variable `token` is highlighted with a red box and has an orange arrow pointing from it to the `data` field in the JSON response above.

## 1.3 API Sample Usage

### 1.3.1 Access Control Scenario



#### 1.3.1.1 Add Person

To add a person, you need to first upload image, and then create person with the image URL.

**Step 1.** Invoke "/UTILITY/files/uploadImageBase64" to upload face image to SenseStudio.

POST [{{studio\\_base\\_url}}/UTILITY/files/uploadImage](#)

Send Save

Params Authorization Headers (12) **Body** Pre-request Script Tests Settings Cookies Code

none form-data x-www-form-urlencoded raw binary GraphQL

KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/> image	<input type="text" value="test.jpg"/> update image file here	File		
<input checked="" type="checkbox"/> serviceType	person			
Key	Value	Description		

Body Cookies Headers (24) Test Results Status: 200 OK Time: 1206 ms Size: 961 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "code": "0000",
3   "msg": "成功",
4   "data": "/images/person/20200605/133/98ed800b50932730b6321fe6be49f671.jpg", imageURI
5   "success": true
6 }
```

**Step 2.** Invoke "/PERSON/person/create" to create a person profile.

POST [{{studio\\_base\\_url}}/PERSON/person/create]({{studio_base_url}}/PERSON/person/create) Send Save

Params Authorization Headers (11) **Body** Pre-request Script Tests Settings Cookies Code

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```

1  {
2    "imageURI": "/images/person/20200605/133/98ed800b50932730b6321fe6be49f671.jpg",
3    "idNumber": "12345678",
4    "cnName": "sample",
5    "operatePerson": "admin"
6  }

```

Body Cookies Headers (23) Test Results Status: 200 OK Time: 583 ms Size: 835 B Save Response

Pretty Raw Preview Visualize JSON

```

1  {
2    "code": "0000",
3    "msg": "成功",
4    "data": "1292", personUid
5    "success": true
6  }

```

### 1.3.1.2 Add Person Group

**Step 3.** Invoke "/PERSON/personGroup/create" to create a person group.

POST [{{studio\\_base\\_url}}/PERSON/personGroup/create]({{studio_base_url}}/PERSON/personGroup/create) Send Save

Params Authorization Headers (11) **Body** Pre-request Script Tests Settings Cookies Code

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```

1  {
2    "cnName": "sample",
3    "type": "0",
4    "operatePerson": "admin"
5  }

```

Body Cookies Headers (23) Test Results Status: 200 OK Time: 230 ms Size: 833 B Save Response

Pretty Raw Preview Visualize JSON

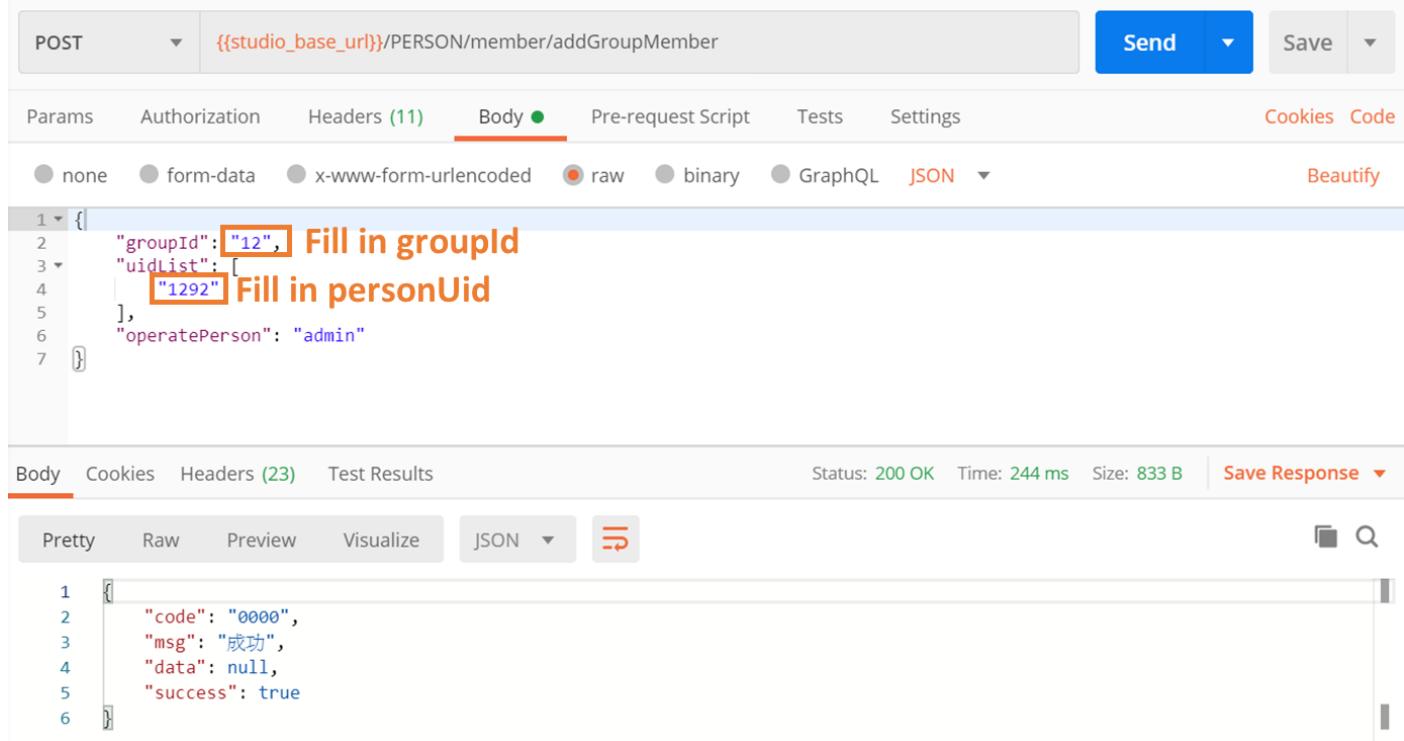
```

1  {
2    "code": "0000",
3    "msg": "成功",
4    "data": "12", groupId
5    "success": true
6  }

```

### 1.3.1.3 Manage Group Member

**Step 4.** Invoke "/PERSON/member/addGroupMember" to add the person into the group.



The screenshot shows a Postman request configuration for a POST method to the endpoint `{{studio_base_url}}/PERSON/member/addGroupMember`. The request body is set to JSON and contains the following data:

```

1 {
2   "groupId": "12", Fill in groupId
3   "uidList": [
4     "1292" Fill in personUid
5   ],
6   "operatePerson": "admin"
7 }

```

The response status is 200 OK, with a response body indicating success:

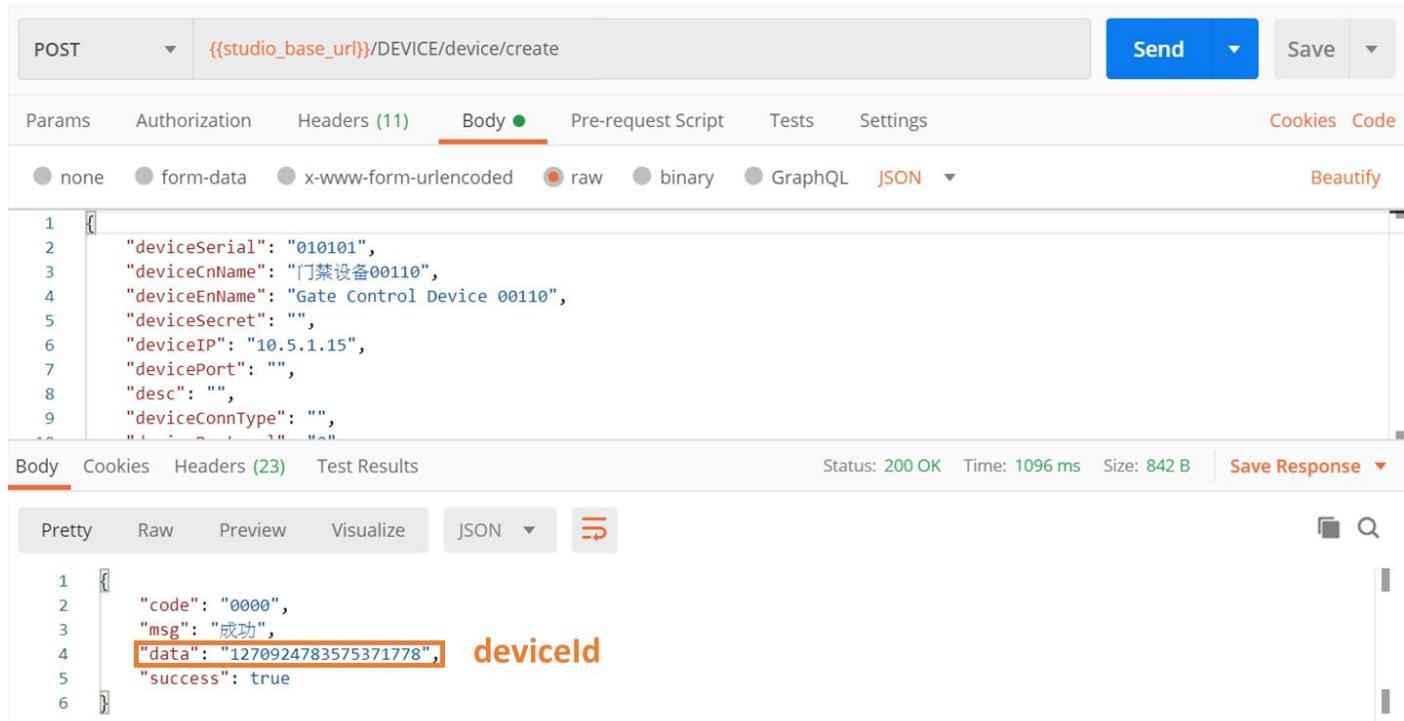
```

1 {
2   "code": "0000",
3   "msg": "成功",
4   "data": null,
5   "success": true
6 }

```

### 1.3.1.4 Add Device

**Step 5.** Invoke "/DEVICE/device/create" to create a device.



The screenshot shows a Postman request configuration for a POST method to the endpoint `{{studio_base_url}}/DEVICE/device/create`. The request body is set to JSON and contains the following device creation details:

```

1 {
2   "deviceSerial": "010101",
3   "deviceCnName": "门禁设备00110",
4   "deviceEnName": "Gate Control Device 00110",
5   "deviceSecret": "",
6   "deviceIP": "10.5.1.15",
7   "devicePort": "",
8   "desc": "",
9   "deviceConnType": ""
10 }

```

The response status is 200 OK, with a response body indicating success and a generated device ID:

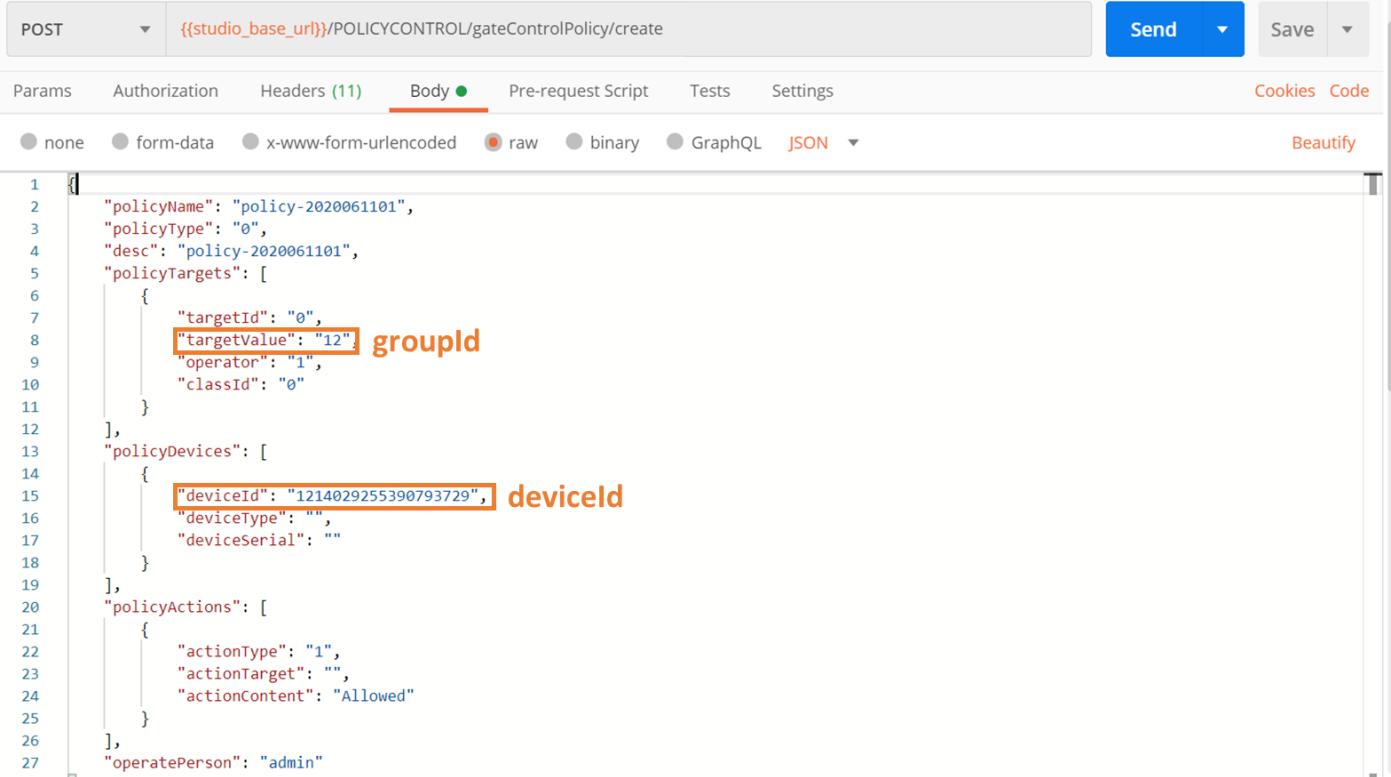
```

1 {
2   "code": "0000",
3   "msg": "成功",
4   "data": "1270924783575371778", deviceld
5   "success": true
6 }

```

### 1.3.1.5 Add Control Policy

**Step 6.** Invoke "/POLICYCONTROL/gateControlPolicy/create" to create a gate control policy. Define target person groups and devices for this policy.



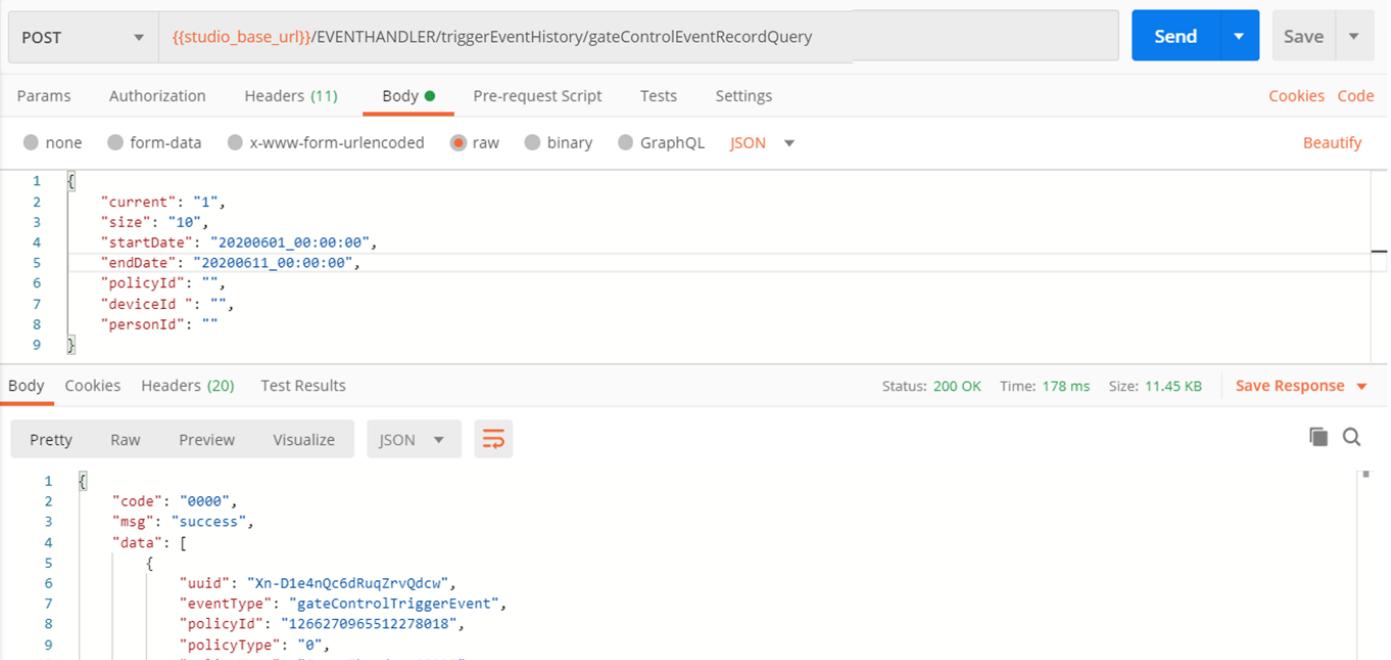
```

1 {
2     "policyName": "policy-2020061101",
3     "policyType": "0",
4     "desc": "policy-2020061101",
5     "policyTargets": [
6         {
7             "targetId": "0",
8             "targetValue": "12", groupid
9             "operator": "1",
10            "classId": "0"
11        },
12    ],
13    "policyDevices": [
14        {
15            "deviceId": "1214029255390793729", deviceId
16            "deviceType": "",
17            "deviceSerial": ""
18        },
19    ],
20    "policyActions": [
21        {
22            "actionType": "1",
23            "actionTarget": "",
24            "actionContent": "Allowed"
25        },
26    ],
27    "operatePerson": "admin"
}

```

### 1.3.1.6 Search Event Record

**Step 7.** Invoke "/EVENTHANDLER/triggerEventHistory/gateControlEventRecordQuery" to search for gate control event records.



```

1 {
2     "current": "1",
3     "size": "10",
4     "startDate": "20200601_00:00:00",
5     "endDate": "20200611_00:00:00",
6     "policyId": "",
7     "deviceId": "",
8     "personId": ""
}

```

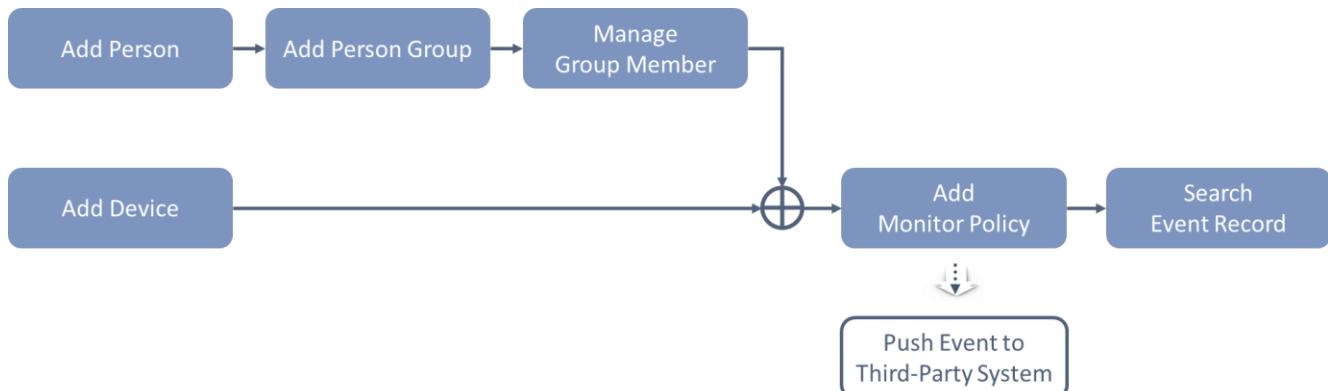
Body Cookies Headers (20) Test Results Status: 200 OK Time: 178 ms Size: 11.45 KB Save Response ▾

```

1 {
2     "code": "0000",
3     "msg": "success",
4     "data": [
5         {
6             "uuid": "Xn-D1e4nQc6dRuqZrvQdcw",
7             "eventType": "gateControlTriggerEvent",
8             "policyId": "1266270965512278018",
9             "policyType": "0",
10            "policyName": "SenseThunder 0E0377"
}

```

### 1.3.2 Gate Monitor Scenario



Please refer to 1.3.1 Access Control Scenario **Step 1 ~ Step 5** for person, person group and device management.

#### 1.3.2.1 Add Monitor Policy

**Step 6.** Invoke "/POLICYMONITOR/gateMonitoringPolicy/create" to create a gate monitor policy. Define target control result, devices, and attribute features for this policy.

POST {{studio\_base\_url}}/POLICYMONITOR/gateMonitoringPolicy/create

**Send** Save

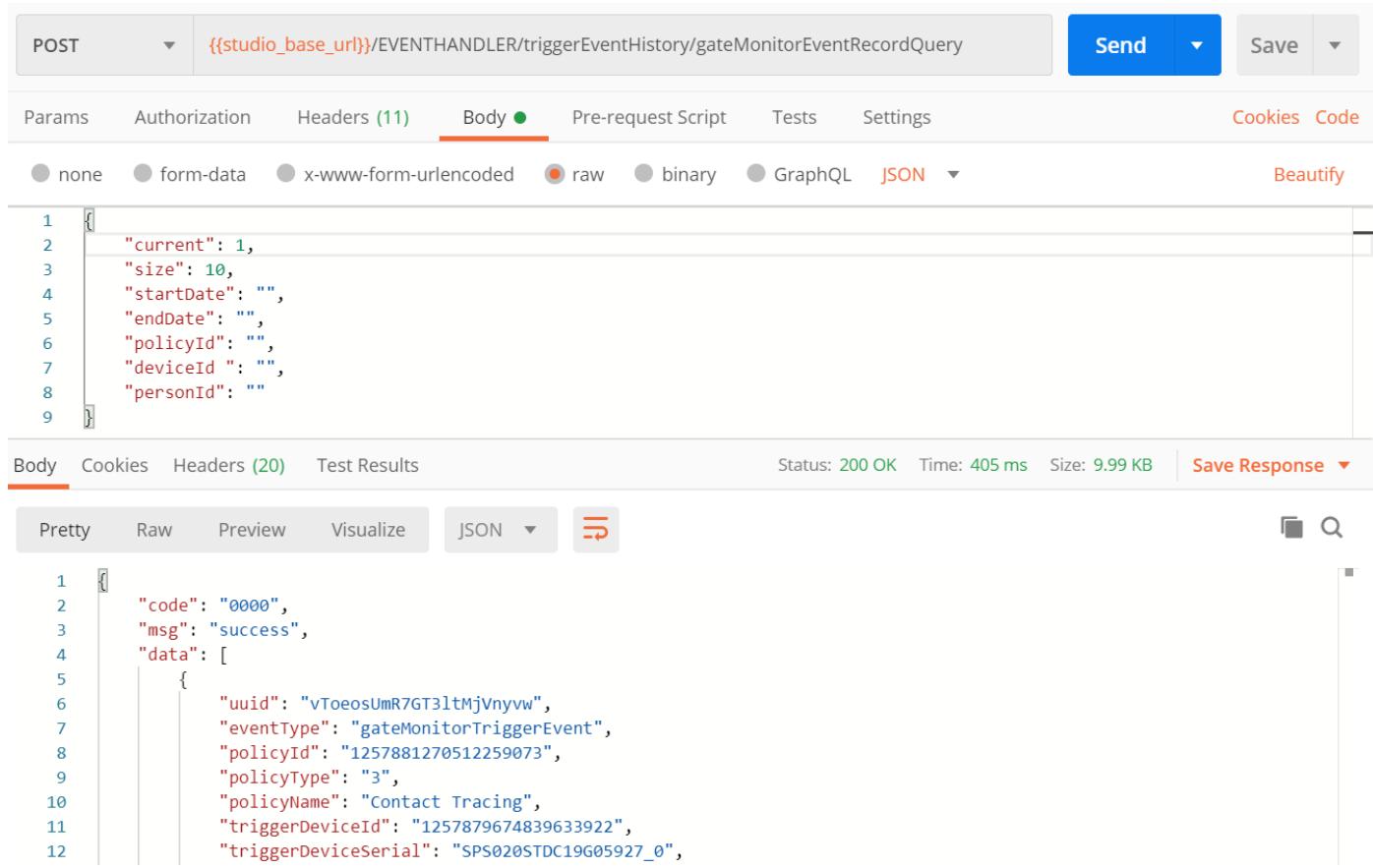
Params	Authorization	Headers (11)	Body ●	Pre-request Script	Tests	Settings	Cookies	Code
none	form-data	x-www-form-urlencoded	raw	binary	GraphQL	JSON	Beautify	

```

1  {
2    "policyName": "Gate Monitor Policy",
3    "policyActions": [
4      {
5        "actionContent": "",
6        "actionTarget": "http://pushserver",
7        "actionType": "2"
8      }
9    ],
10   "policyType": "3",
11   "eventType": "2",
12   "policyDevices": [
13     {
14       "deviceId": "1257879674839633922",
15       "deviceSerial": "",
16       "deviceType": ""
17     }
18   ],
19   "deviceScope": "N",
20   "operatePerson": "9",
21   "targetScope": "1",
22   "validPeriodEnd": "",
23   "validPeriodStart": "",
24   "monitorPeriodWeekday": "",
25   "monitorPeriodEnd": "",
26   "monitorPeriodStart": ""
  
```

### 1.3.2.2 Search Event Record

**Step 7.** Invoke "/EVENTHANDLER/triggerEventHistory/gateMonitorEventRecordQuery" to search for gate monitor event records.



The screenshot shows a POST request in Postman. The URL is {{studio\_base\_url}}/EVENTHANDLER/triggerEventHistory/gateMonitorEventRecordQuery. The Body tab contains the following JSON payload:

```
1 {
2   "current": 1,
3   "size": 10,
4   "startDate": "",
5   "endDate": "",
6   "policyId": "",
7   "deviceId": "",
8   "personId": ""
9 }
```

The response status is 200 OK, with a response body containing:

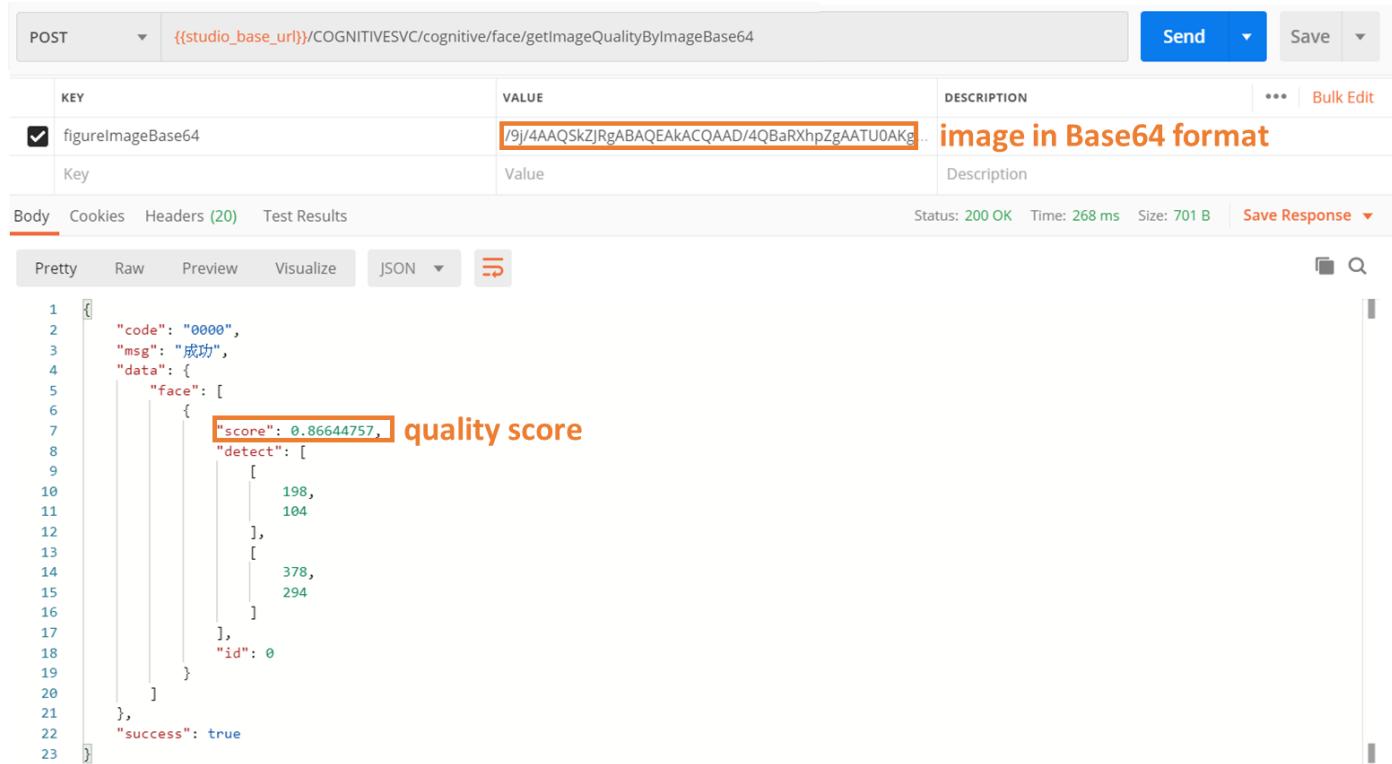
```
1 {
2   "code": "0000",
3   "msg": "success",
4   "data": [
5     {
6       "uuid": "vToeosUmR7GT3ltMjVnyvw",
7       "eventType": "gateMonitorTriggerEvent",
8       "policyId": "1257881270512259073",
9       "policyType": "3",
10      "policyName": "Contact Tracing",
11      "triggerDeviceId": "1257879674839633922",
12      "triggerDeviceSerial": "SPS020STDC19G05927_0",
13    }
14  ]
15 }
```

### 1.3.3 Other Common Usages

Quality Check

### 1.3.3.1 Quality Check

Invoke "/COGNITIVESVC/cognitive/face/getImageQualityByImageBase64" to get image quality score.



```

1 {
2   "code": "0000",
3   "msg": "成功",
4   "data": {
5     "face": [
6       {
7         "score": 0.86644757, quality score
8         "detect": [
9           [
10              198,
11              104
12            ],
13            [
14              378,
15              294
16            ]
17          ],
18          "id": 0
19        }
20      ],
21      "success": true
22    }
23  }

```

## 1.4 Common API Return Format

```
{
  "code": 0000,          // API return code, 0000 is success
  "msg": "return msg",  // API return message
  "data": JSON data    // Business data returned by the API. The API response mentioned in
following chapters include only this part.
}
```

## 2 Person API

### 2.1 Person API Return Code

Return Code	Return Code Description
0000	Success
0001	Failed
02002000	The data has already existed
02002001	Fail to update the checkout result
02012002	Operating data does not exist
02012003	[PersonListReq]bad request,uidList is required
02002004	uuid and avatarimageid con not all empty
02002008	Create a failure, more than the maximum number of valid users
02002009	Fetching image feature values failed
02002010	Extract image feature value data is empty
02002011	Characteristic value is empty
02002012	The model version is empty
02002013	Batch import user excel is empty, please re-upload
02002014	Batch import abnormity for users
02002015	Batch creation in this directory
02002016	Save batch importing personnel records failed
02002017	Update batch importing personnel records failed
02002018	Folder pictures are empty
02002019	File does not exist
02002020	Picture naming format does not meet the requirements. It should be name + blank + certificate number.
02002021	The naming format does not match the requirement. There is no space between the file name and the file extension
02002022	Failure to insert personnel when batch insertion
02002023	Failure to insert pictures when batch insertion
02002024	Failure to update personnel when batch insertion
02002025	Failure to update pictures when batch insertion
02002026	Uploading file format is incorrect
02002027	Call control to remove the failure of a human group
02002028	Call monitor to remove the failure of a human group
02010001	[PersonBaseReq] cnName is required
02010001	[PersonCreateReq] cnName is required
02010001	[PersonCreateReq] sex is required

02010001	[PersonCreateReq] birthday is required
02010001	[PersonCreateReq] idNumber is required
02010001	[PersonDeactivateReq] uidList is required
02010001	[PersonDeactivateReq] operatePerson is required
02010001	[PersonListByIdNumbers] idNumber is required
02010001	[PersonUpdateReq] uid is required
02010001	[PersonUpdateReq] operatePerson is required
02010001	[PersonUpdateReq] isUpdateImage is required
02010001	[AssignMemberReq]groupId is required
02010001	[AssignMemberReq]uidList is required
02010001	[RemoveMemberReq] groupId is required
02010001	[RemoveMemberReq] uidList is required
02010001	[ListGroupInfoReq] groupIds is required
02010001	[PersonGroupCreateReq] cnName is required
02010001	[PersonGroupCreateReq] type is required
02010001	[PersonGroupDeactivateReq] groupId is required
022038	delete group fail
0202999	request deptId is required
0203999	you do not have the privilege

## 2.2 Person Management

### 2.2.1 Create Person

<b>API Endpoint</b>	{{studio_base_url}}/PERSON/person/create			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	imageURI	Yes	String	Person image path
	cnName	Yes	String	Person name
	idNumber	Yes	String	Identification number
	operatePerson	Yes	String	Operator
	personTag	No	String	User-defined person tag
	enName	No	String	Person nick name
	sex	No	String	Gender(male: 0, female: 1)
	birthday	No	String	Birthday, format: yyyyMMdd
	desc	No	String	Description
	personType	No	String	Person type

	personFeature	No	String	Person feature
	modelVersion	No	String	Model version
	documentId	No	String	Document ID
	externalUid	No	String	External primary key
	idCountry	No	String	ID issuing country
	idExpiryDate	No	String	ID expiration date Format: yyyy-MM-dd
	idType	No	String	ID type 1: ID Card; 2: Passport; 3: Driving License; 4: FIN; 5: Others
	remark	No	String	Remark
	privilege	No	String	Privilege (Department ID)
Response Parameters	Name	Required	Type	Description
	data	Yes	String	Person unique ID, generated by the system, be used to uniquely identify the person
Sample Request	<pre>{     "birthday": "",     "cnName": "John",     "desc": "",     "documentId": "",     "enName": "",     "externalUid": "",     "idCountry": "",     "idExpiryDate": "",     "idNumber": "0001",     "idType": "",     "imageURI":         "/images/person/20200311/93/eae3d34d7071a6bc54dbc4e44a47c643.jpg",     "modelVersion": "",     "operatePerson": "1",     "personFeature": "",     "personTag": "",     "personType": "",     "sex": "",     "privilege": "" }</pre>			

<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": "1436",     "success": true }</pre>
------------------------	---

### 2.2.2 Deactivate Person (Soft Delete)

<b>API Endpoint</b>	{{studio_base_url}}/PERSON/person/deactivate			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	uidList	No	Array[String]	Set of person unique IDs
	startTime	No	String	Deactivate persons whose last modified time is after this timing. Format: yyyy-MM-dd HH:mm:ss
	endTime	No	String	Deactivate persons whose last modified time is before this timing. Format: yyyy-MM-dd HH:mm:ss
	operatePerson	Yes	String	Operator
	beforeDays	No	String	Deactivate persons whose last modified time is before "beforeDays"
	personTag	No	String	User-defined person tag
<b>Sample Request</b>	<pre>{     "uidList": ["1", "2"],     "operatePerson": "1" }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": null,     "success": true }</pre>			

### 2.2.3 Delete Person (Hard Delete)

<b>API Endpoint</b>	{{studio_base_url}}/PERSON/person/delete
---------------------	--

<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	uuids	Yes	Array[String]	Set of person unique IDs
	startTime	No	String	Delete persons whose last modified time is after this timing. Format: yyyy-MM-dd HH:mm:ss
	endTime	No	String	Delete persons whose last modified time is after this timing. Format: yyyy-MM-dd HH:mm:ss
	beforeDays	No	String	Delete persons whose last modified time is before "beforeDays"
	personTag	No	String	User-defined person tag
<b>Sample Request</b>	<pre>{     "beforeDays": "",     "endTime": "2018-12-14",     "personTag": "",     "startTime": "2018-12-13",     "uuids": [         "12"     ] }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": null,     "success": true }</pre>			

#### 2.2.4 Update Person

<b>API Endpoint</b>	{{studio_base_url}}/PERSON/person/update			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	uid	Yes	String	Person unique ID

	isUpdateImage	Yes	String	Whether to update person image(Yes:0, No:1)
	imageURI	Yes	String	Person image path
	idNumber	Yes	String	Identification Number
	operatePerson	Yes	String	Operator
	sts	No	String	Status(Valid: 0, Invalid: 1)
	cnName	Yes	String	Person name
	enName	No	String	Person nick name
	sex	No	String	Gender(male: 0, female: 1)
	birthday	No	String	Birthday, format: yyyyymmdd
	desc	No	String	Description
	personType	No	String	Person type
	personFeature	No	String	Person feature
	modelVersion	No	String	Model version
	documentId	No	String	Document ID
	personTag	No	String	User-defined person tag
	externalUid	No	String	External primary key
	idCountry	No	String	ID issuing country
	idExpiryDate	No	String	ID expiration date Format: yyyy-MM-dd
	remark	No	String	Remark
	idType	No	String	ID type 1: ID Card; 2: Passport; 3: Driving License; 4: FIN; 5: Others
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data	Yes	String	Person unique ID
<b>Sample Request</b>	<pre>{   "imageURI": "/images/person/20200311/93/eaе3d34d7071a6bc54dbc4e44a47c643.jpg",   "isUpdateImage": "0",   "cnName": "Peter",   "idNumber": "0002",   "birthday": "",   "desc": "",   "documentId": "",   "enName": "",   "externalUid": "",   "idCountry": ""}</pre>			

	<pre>     "idExpiryDate": "",     "idType": "",     "modelVersion": "",     "operatePerson": "1",     "personFeature": "",     "personTag": "",     "personType": "",     "sex": "",     "sts": "",     "uid": "4"   } </pre>
<b>Sample Response</b>	<pre> {   "code": "0000",   "msg": "成功",   "data": "11",   "success": true } </pre>

### 2.2.5 List Person (Pagination)

<b>API Endpoint</b>	{{studio_base_url}}/PERSON/person/pageList			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	current	Yes	Integer	Query results on page #. Start from 1.
	size	Yes	Integer	Number of results per page
	cnName	No	String	Person name
	enName	No	String	Person nick name
	sex	No	String	Gender(male:0, female: 1)
	birthday	No	String	Birthday, format: yyyyymmdd
	idNumber	No	String	Identification Number
	desc	No	String	Description
	sts	No	String	Status(Valid: 0, Invalid: 1)
	personTag	No	String	User-defined person tag
	externalUid	No	String	External primary key

	createTsEnd	No	String	End time of the createTs (yyyy-MM-dd HH:mm:ss)
	createTsStart	No	String	Start time of the createTs (yyyy-MM-dd HH:mm:ss)
	lastModTsEnd	No	String	End time of the lastModTs (yyyy-MM-dd HH:mm:ss)
	lastModTsStart	No	String	Start time of the lastModTs (yyyy-MM-dd HH:mm:ss)
	remark	No	String	Remark
Response Parameters	Name	Required	Type	Description
	data	Yes	Array[PersonInfo]	Person list
<b>PersonInfo</b>	uid		String	Person unique ID
	cnName		String	Person name
	enName		String	Person nick name
	idNumber		String	Identification Number
	documentId		String	Document ID
	sts		String	Status(Valid: 0, Invalid: 1)
	type		String	User type
	feature		String	User characteristic
	modelVersion		String	Model version
	imageURI		String	Person image path
	sex		String	Gender(male: 0, female: 1)
	birthday		String	Birthday, format: yyyyymmdd
	lastModTs		String	Last modified time Format: yyyy-MM-dd HH:mm:ss
	personTag		String	User-defined person tag
	externalUid		String	External primary key
	idCountry		String	ID issuing country
	idExpiryDate		String	ID expiration date Format: yyyy-MM-dd
	idType		String	ID type 1: ID Card; 2: Passport; 3: Driving License; 4: FIN; 5: Others
	imageLastModTs		String	Image last modified time

	remark		String	Remark
	groupIdNameList		Array[GroupInfo]	Person Group List
<b>GroupInfo</b>	groupId		String	Person Group ID
	groupCnName		String	Chinese name of person group
	groupEnName		String	English name of person group
<b>Sample Request</b>	<pre>{     "birthday": "",     "cnName": "",     "current": 1,     "desc": "",     "enName": "",     "externalUid": "",     "idNumber": "",     "personTag": "",     "sex": "",     "size": 10,     "sts": "",     "uid": "",     "remark": "" }</pre>			
<b>Sample Response</b>	<pre>{     "data": [         {             "externalUid": null,             "idCountry": null,             "idExpiryDate": null,             "idType": null,             "uid": "657166",             "cnName": "Real_217972",             "enName": "",             "sts": "0",             "type": "0",             "personTag": "",             "feature": "",             "modelVersion": "kestrel",         }     ] }</pre>			

```

    "idNumber":"1545014640342-889046",
    "imageURI":"/images/person/20181217/83/2f54db34bda0c6a8d1576812b
82ad1d3.jpg",
    "sex":"0",
    "documentId":"",
    "desc": "description",
    "birthday":"20181127",
    "groupIdNameList": [
        ],
    "lastModTs":"2018-12-17 10:44:01",
    "remark": ""
},
],
"size":10,
"total":302025,
"code":"0000",
"msg": "成功"
}

```

## 2.2.6 List Person By UIDs

<b>API Endpoint</b>	{{studio_base_url}}/PERSON/person/list		
<b>Method</b>	POST		
<b>Request Format</b>	JSON		
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>
	uidList	Yes	Array[String]
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Description</b>
	data	Yes	Array[PersonInfo]
<b>PersonInfo</b>	uid		String
	cnName		String
	enName		String
	sts		Status(Valid: 0, Invalid: 1)
	type		Person type
	feature		Person feature
	modelVersion		Model version

	documentId	String	Document ID
	idNumber	String	Identification Number
	remark	String	Remark
	createTs	String	Created time
	lastModTs	String	Last modified time Format: yyyy-MM-dd HH:mm:ss
	avatarId	String	Person image ID
	personTag	String	User-defined person tag
	externalUid	String	External primary key
	idCountry	String	ID issuing country
	idExpiryDate	String	ID expiration date Format: yyyy-MM-dd
	idType	String	ID type 1: ID Card; 2: Passport; 3: Driving License; 4: FIN; 5: Others
Sample Request	<pre>{   "uidList": [     "53"   ] }</pre>		
Sample Response	<pre>{   "code": "0000",   "msg": "成功",   "data": [     {       "uid": "657166",       "cnName": "Real_217972",       "enName": "",       "sts": "0",       "type": "0",       "feature": "",       "modelVersion": "kestrel",       "documentId": "",       "personTag": "",       "idNumber": "1545014640342-889046",     }   ] }</pre>		

```

        "imageURI":"/images/person/20181217/2f0c6576812b82ad1d3.jpg",
        "sex":"0",
        "birthday":"20181127",
        "createTs":"2018-12-17T02:44:01.000+0000",
        "lastModTs":"2018-12-17 10:44:01",
        "desc": "description",
        "avatarId":"1074495397819293697",
        "externalUid": null,
        "idCountry": null,
        "idExpiryDate": null,
        "idType": null,
        "remark":"""
    }
],
"success": true
}

```

### 2.2.7 Query Person Information by Person ID

<b>API Endpoint</b>	{{studio_base_url}} /PERSON/person/info			
<b>Method</b>	GET			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	uid	Yes	String	Person unique ID
<b>Response Parameters (data)</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	uid	Yes	String	Person unique ID
	documentId		String	Document ID
	cnName		String	Person name
	enName		String	Person nick name
	sts		String	Status(Valid: 0, Invalid: 1)
	type		String	Person type
	imageURI		String	Person image path
	feature		String	Person feature
	modelVersion		String	Model version
	sex		String	Gender(male: 0, female: 1)
	birthday		String	Birthday, format: yyyyymmdd
	lastModTs		String	Last modified time
	desc		String	Description

	personTag		String	User-defined person tag
	externalUid		String	External primary key
	idCountry		String	ID issuing country
	idExpiryDate		String	ID expiration date Format: yyyy-MM-dd
	idType		String	ID type 1: ID Card; 2: Passport; 3: Driving License; 4: FIN; 5: Others
	remark		String	Remark
	privilege		String	Privilege (Department ID)
<b>Sample Request</b>	{{API Endpoint}}?uid=83			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": {         "idNumber": "1545014640342-889046",         "documentId": "",         "sex": "0",         "birthday": "20181127",         "imageURI": "/images/person/20181217/83/2f54db34bda0c6a8d1576812b82ad1d3.jpg",         "desc": "description",         "uid": "657166",         "cnName": "Real_217972",         "enName": "",         "type": "0",         "personTag": "",         "feature": "",         "modelVersion": "kestrel",         "sts": "0",         "lastModTs": "2018-12-17 10:44:01",         "externalUid": null,         "idCountry": null,         "idExpiryDate": null,         "idType": null,         "privilege": "1"     } }</pre>			

	<pre>     },     "success": true } </pre>
--	---

### 2.2.8 Query Person Image URI

<b>API Endpoint</b>	{{studio_base_url}}/PERSON/person/image		
<b>Method</b>	GET		
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>
	uuid	Yes	String
<b>Response Parameters (data)</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>
	imageId		String
<b>Sample Request</b>	{{API Endpoint}}?uid=12		
<b>Sample Response</b>	<pre> {     "code": "0000",     "msg": "成功",     "data": {         "imageId": "1242656409787568130",         "imageURI":         "/images/person/20200325/11/0b04bde79d07c051f038f4a054b172a5.jpg"     },     "success": true } </pre>		

### 2.2.9 List Person Tags

<b>API Endpoint</b>	{{studio_base_url}}/PERSON/person/getPersonTagList		
<b>Method</b>	POST		
<b>Request Format</b>	JSON		
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>
	current	Yes	Integer
	size	Yes	Integer
	personTags	No	Array[String]
	When this column set, the API will respond the corresponding personTag if it exists. If the personTag does not exist, then the API will respond empty.		
	<b>Name</b>	<b>Required</b>	<b>Type</b>
	<b>Description</b>		

<b>Response Parameters</b>	data		Array[String]	Person tags list
<b>Sample Request</b>	<pre>{     "current": 1,     "size": 10,     "personTags": [         "ST0010"     ] }</pre>			
<b>Sample Response</b>	<pre>{     "data": [         "ST0010"     ],     "size": 10,     "total": 1,     "code": "0000",     "msg": "success" }</pre>			

### 2.2.10 Query Group of Person

<b>API Endpoint</b>	{{studio_base_url}}/PERSON/person/queryPersonGroupIds			
<b>Method</b>	GET			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	uid	Yes	Integer	Person unique ID
<b>Response Parameters (data)</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	personGroupIds		Array[String]	Group IDs where the person belongs to
<b>Sample Request</b>	{{API Endpoint}}?uid=11			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": {         "personGroupIds": [             "1"         ]     },     "success": true }</pre>			

}

## 2.3 Group Management

### 2.3.1 Create Person Group

<b>API Endpoint</b>	{{studio_base_url}}/PERSON/personGroup/create			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	cnName	Yes	String	Group name
	type	Yes	String	Person group type, fixed to "0"
	operatePerson	Yes	String	Operator
	enName	No	String	(Not in used for now)
	desc	No	String	Description
<b>Response Parameters</b>	Name	Required	Type	Description
	data	Yes	String	Person group ID, generated by the system, be used to uniquely identify the group
<b>Sample Request</b>	<pre>{     "cnName": "Test",     "desc": "text group",     "enName": "",     "operatePerson": "1",     "type": "0" }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": "1",     "success": true }</pre>			

### 2.3.2 Deactivate Person Group

<b>API Endpoint</b>	{{studio_base_url}}/PERSON/personGroup/deactivate			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	groupId	Yes	String	Person group ID

	operatePerson	Yes	String	Operator
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data	Yes	String	Person group ID
<b>Sample Request</b>	<pre>{     "groupId": "1",     "operatePerson": "1" }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": "1",     "success": true }</pre>			

### 2.3.3 Update Person Group

<b>API Endpoint</b>	{{studio_base_url}} /PERSON/personGroup/update			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	groupId	Yes	String	Person group ID
	operatePerson	No	String	Operator
	cnName	No	String	Group name
	type	No	String	Person group type, fixed to "0"
	enName	No	String	(Not in used for now)
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data	Yes	String	Person group ID
<b>Sample Request</b>	<pre>{     "groupId": "1",     "cnName": "New Name",     "desc": "update name",     "enName": "",     "operatePerson": "1",     "type": "" }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "操作成功",     "data": "1" }</pre>			

	<pre>     "msg": "成功",     "data": "1",     "success": true   }   </pre>
--	--

### 2.3.4 List Person Group (Pagination)

<b>API Endpoint</b>	{{studio_base_url}} /PERSON/personGroup/list			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	current	Yes	Integer	Query results on page #. Start from 1.
	size	Yes	Integer	Number of results per page
	cnName	No	String	Person name
	enName	No	String	Person nick name
	type	No	String	Person group type, fixed to "0"
	sts	No	String	Status(Valid: 0, Invalid: 1)
<b>Request Parameters</b>	Name	Required	Type	Description
	data	Yes	Array[GroupInfo]	Person group information List
<b>GroupInfo</b>	groupId		String	Person group ID
	cnName		String	Group name
	enName		String	(Not in used for now)
	type		String	Person group type
	createTs		String	Created time
	lastModTs		String	Last modified time
	privilege		String	Privilege (Department ID)
	sts		String	Status(Valid: 0, Invalid: 1)
	memberCount		String	Number of members in the group
<b>Sample Request</b>	<pre> {   "current": 1,   "size": 10,   "cnName": "",   "desc": "" }   </pre>			

	<pre>     "enName": "",     "type": "" } </pre>
<b>Sample Response</b>	<pre> {     "data": [         {             "privilege": "0",             "groupId": "1",             "cnName": "New Name",             "enName": "",             "type": "0",             "sts": "0",             "memberCount": "1",             "createTs": "2020-03-11 14:18:21",             "lastModTs": "2020-03-11 14:22:59"         }     ],     "size": 10,     "total": 1,     "code": "0000",     "msg": "成功" } </pre>

## 2.4 Member Management

### 2.4.1 Add Group Members

<b>API Endpoint</b>	{{studio_base_url}} /PERSON/member/addGroupMember			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	groupId	Yes	String	Person group ID
	operatePerson	Yes	String	Operator
<b>Response Parameters</b>	Name	Required	Type	Description
	data			
<b>Sample Request</b>	<pre> {     "groupId": "1",     "uidList": ["15","10"], } </pre>			

	<pre>     "operatePerson": "1"   } }</pre>
<b>Sample Response</b>	<pre> {   "code": "0000",   "msg": "成功",   "data": null,   "success": true }</pre>

#### 2.4.2 Add Person to Multiple Groups

<b>API Endpoint</b>	{{studio_base_url}} /PERSON/member/addMemberToGroups			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	groupIdList	Yes	Array[String]	Person group ID
	operatePerson	Yes	String	Operator
<b>Response Parameters</b>	Name	Required	Type	Description
	data			
<b>Sample Request</b>	<pre> {   "groupIdList": ["15", "10"],   "uid": "131231",   "operatePerson": "1" } </pre>			
<b>Sample Response</b>	<pre> {   "code": "0000",   "msg": "成功",   "data": null,   "success": true } </pre>			

#### 2.4.3 Remove Group Members

<b>API Endpoint</b>	{{studio_base_url}}/PERSON/member/remove			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	groupId	Yes	String	Person group ID

	operatePerson	Yes	String	Operator
	uidList	Yes	Array[String]	Person unique ID
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data			
<b>Sample Request</b>	{ "groupId":"2", "uidList":["15","10"], "operatePerson": "1" }			
<b>Sample Response</b>	{ "code": "0000", "msg": "成功", "data": null, "success": true }			

#### 2.4.4 Remove Person from Multiple Groups

<b>API Endpoint</b>	{{studio_base_url}}/PERSON/member/removeMemberFromGroups			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	groupIdList	Yes	Array[String]	Person group ID
	operatePerson	Yes	String	Operator
	uid	Yes	String	Person unique ID
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data			
<b>Sample Request</b>	{ "groupIdList":["15","10"], "uid":"2", "operatePerson": "1" }			
<b>Sample Response</b>	{ "code": "0000", "msg": "成功", "data": null, "success": true }			

}

**2.4.5 List Member (Pagination)**

<b>API Endpoint</b>	{{studio_base_url}}/PERSON/member/pagelist			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	current	Yes	Integer	Query results on page #. Start from 1.
	size	Yes	Integer	Number of results per page
	groupIdList	Yes	Array[String]	List of person group IDs
	cnName	No	String	Person name
	enName	No	String	Person nick name
	sex	No	String	Gender(male: 0, female: 1)
	birthday	No	String	Birthday, format: yyyyymmdd
<b>Response Parameters</b>	Name	Required	Type	Description
	data		Array[MemberInfo]	
<b>MemberInfo</b>	idNumber		String	Identification Number
	imageURI		String	Person image path
	lastModTs		String	Last modified time
	sex		String	Gender(male: 0, female: 1)
	birthday		String	Birthday, format: yyyyymmdd
	sts		String	Status(Valid: 0, Invalid: 1)
	idCountry		String	ID issuing country
	idExpiryDate		String	ID expiration date Format: yyyy-MM-dd
	type		String	Person type
	personTag		String	User-defined person tag
	idType		String	ID type 1: ID Card; 2: Passport; 3: Driving License; 4: FIN; 5: Others
	externalUid		String	External primary key
	documentId		String	Document ID
	uid		String	Person unique ID

	cnName	String	Person name
	enName	String	Person nick name
	groupIdNameList	Array[GroupInfo]	
<b>GroupInfo</b>	groupId	String	Person group ID
	groupCnName	String	Group name
	groupEnName	String	(Not in used for now)
<b>Sample Request</b>	<pre>{     "groupIdList":["3"],     "current":"1",     "size":"1" }</pre>		
<b>Sample Response</b>	<pre>{     "data": [         {             "birthday": "19900101",             "externalUid": "3134967",             "idType": "1",             "sex": "",             "idExpiryDate": "2099-01-01",             "lastModTs": "2018-11-27 20:34:47",             "idNumber": "S7740553D",             "idCountry": "195",             "uid": 10448,             "groupIdNameList": [                 {                     "groupId": 598,                     "groupCnName": "group1"                 },                 {                     "groupId": 601,                     "groupCnName": "group2"                 },                 {                     "groupId": 602,                     "groupCnName": "group3"                 },                 {                     "groupId": 804, </pre>		

```

        "groupCnName":"group4"
    }
],
"imageURI":"/images/person/sensetime/66322520.jpg",
"sts":0,
"cnName": "TARO",
"enName": "TARO",
"personTag":"1010401056795,9010401052465"
}
],
"size":10,
"total":984,
"code":"0000",
"msg": "成功"
}

```

#### 2.4.6 List Member by Group ID

<b>API Endpoint</b>	{{studio_base_url}} /PERSON/member/groupsMemberList			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	groupIds	Yes	Array[String]	List of person group IDs
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		Array[MemberInfo]	Person Group Information List
<b>MemberInfo</b>	uid		String	Person unique ID
	groupId		String	Person group ID
	cnName		String	Group name
	enName		String	(Not in used for now)
	idNumber		String	Identification Number
	imageURI		String	Person image path
	sex		String	Gender(male: 0, female: 1)
	birthday		String	Birthday, format: yyyyymmdd
	sts		String	Status(Valid: 0, Invalid: 1)
	personTag		String	User-defined person tag
	externalUid		String	External primary key

	idCountry		String	ID issuing country
	idExpiryDate		String	ID expiration date Format: yyyy-MM-dd
	idType		String	ID type 1: ID Card; 2: Passport; 3: Driving License; 4: FIN; 5: Others
<b>Sample Request</b>	<pre>{     "groupIds": ["2"] }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": [         {             "uid": "355682",             "groupId": "2300",             "groupCnName": "test group",             "groupEnName": null,             "cnName": "locker",             "enName": null,             "birthday": null,             "idNumber": "1541570554862920",             "imageURI": "/images/default/20181107/253/5dab42b585e367f0e9637ead9aa18153.jpg",             "sex": null,             "sts": "0",             "lastModTs": "2018-11-07 14:02:38",             "externalUid": null,             "idCountry": null,             "idExpiryDate": null,             "idType": "1",             "personTag": "",             "type": "1"         },         {             "success": true         }     ] }</pre>			

## 3 Device API

### 3.1 Device API Return Code

Return Code	Return Code Description	Possible Causes	Solution Suggestion
0000	Success		
01001000	device serialNo has already existed	Duplicate device serial	Modify device serial
01001001	exceed the upper limit of the number of devices	Exceed the limit of device creation	Remove unused device
01001002	create device failed	Invalid input parameter / Database exception / Application exception	Investigate the cause by checking the backend logs
01001003	update device failed	Invalid input parameter / Database exception / Application exception	Investigate the cause by checking the backend logs
01001004	deactivate device failed	Invalid input parameter / Database exception / Application exception	Investigate the cause by checking the backend logs
01011005	date format error	Invalid input date format	Modify date to correct format
01001006	deactivate device and controlPolicy relation failed	Invalid input parameter / Database exception / Application exception	Investigate the cause by checking the backend logs
01001007	deactivate device and monitorPolicy relation failed	Invalid input parameter / Database exception / Application exception	Investigate the cause by checking the backend logs
01001008	deactivate device and map relation failed	Invalid input parameter / Database exception / Application exception	Investigate the cause by checking the backend logs
01001009	this edge has already existed	Duplicate track	Do not create duplicate tracks between devices
01001010	create edge failed	Invalid input parameter / Database exception / Application exception	Investigate the cause by checking the backend logs
01001011	update edge failed	Invalid input parameter / Database exception / Application exception	Investigate the cause by checking the backend logs

01001012	deactivate edge failed	Invalid input parameter / Database exception / Application exception	Investigate the cause by checking the backend logs
01001013	fill device node into edge failed	Invalid input parameter / Database exception / Application exception	Investigate the cause by checking the backend logs
01001014	ingressAngleThreshold's format is incorrect	Invalid input angle detection threshold format	The parameter format is "xx,yy,zz". And the angle needs to be between 0 and 180.
01001015	faceAttribute need to be 0 or 1	Invalid input attribute extraction switch format	Check if the parameter is 0 or 1
01001016	livenessCheck need to be 0 or 1	Invalid input liveness check threshold format	Check if the parameter is between 0 and 1
01001017	ingressQCThreshold need to be 0~1	Invalid input quality check threshold format	Check if the parameter is between 0 and 1
01001018	frameRate need to be 0~9999	Invalid input device frame rate format	Check if the parameter is between 0 and 9999
0100999	deptId can not be empty	Missing input parameter deptId	Input deptId
01001020	device does not exist	Device not exists	Check if the device exists in DB
01001021	you don't have the privilege	No permission to query the information	Check the privilege of the caller account. And check if the device exists.
01001022	set BI device config deviceld is required	Missing input parameter deviceld	Input deviceld
010010123	remark value is an invalid json string	Remarks is an invalid JSON string	Check if the input remark is a valid JSON string
010010124	matchingThreshold need to be 0~1	Invalid input matching threshold format	Check if the parameter is between 0 and 1

## 3.2 Parameter Definition

### 3.2.1 Device Type Definition

Device Type ID	Device Type
0	Terminal
1	Keeper

2	Camera
3	GrabMachine
6	GB2818
7	Pad
9	Server
10	VirtualGate
11	VirtualId
12	VirtualMatch
14	compareCamera
15	sensePass
16	CaptureCamera-T
17	sensePass Pro
18	Face Detecting camera
19	Terminal-Visitor
20	CaptureCamera-11
21	Senseye-Region
22	Senseye-X
23	Huawei snapshot camera
24	dlc-D
25	haikang snapshot camera
26	sensegate-H
27	dahua snapshot camera
28	senseyeApp

### 3.2.2 Product Type Definition

Product Type ID	Product Type
0	sensID
1	senseKeeper
2	senseFace
3	senseCity
5	senseCrowd
6	DLC
7	senseGo
9	senseHello
10	ViperImage
12	SensEye
13	sensePass

14	SenseCass
15	ViperFace

### 3.3 Device Management

#### 3.3.1 Create Device

<b>API Endpoint</b>	{{studio_base_url}}/DEVICE/device/create			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	deviceCnName	Yes	String	Device name
	deviceSerial	Yes	String	Device serial
	deviceType	Yes	String	Device type ID Please refer to 3.2.1 Device Type Definition
	deviceVersion	Yes	String	Device version
	operatePerson	Yes	String	Operator
	productType	Yes	String	Product type ID Please refer to 3.2.2 Product Type Definition
	desc	No	String	Device description
	deviceConnType	No	String	Device connection type 0: Direct connection 1: Transcoding
	deviceEnName	No	String	Device nick name
	deviceIP	No	String	Device IP
	devicePort	No	String	Device port
	deviceProtocol	No	String	Device protocol 0: TCP 1: UDP
	deviceSecret	No	String	Device login secret
	deviceTag	No	String	User-defined device tag
	deviceUri	No	String	Device URI RTSP stream URL for video camera
	matchinThreshold	No	Double	Match threshold (0-1) Default value 0.5

	streamHeight	No	String	The height of video stream Default value 1920
	streamWidth	No	String	The width of video stream Default value 1080
	faceAttribute	No	Integer	Feature extraction switch (0: on, 1: off) Default off
	livenessCheck	No	Integer	[Deprecated] Liveness check switch (0: on, 1: off)
	ingressQCThreshold	No	String	Quality check threshold (0-1) Default value 0.3
	ingressAngleThreshold	No	String	Detection angle threshold
	frameRate	No	String	Video frame rate
	bklImageStorage	No	String	Background image storing switch (0: on, 1: off) Default off
	boundingBoxSizeThreshold	No	String	Width detection threshold Default value 20
	targetGroup	No	String	Target person groups
	remark	No	String	Remark
	privilege	No	String	Privilege (Department ID)
	validRegionDefinition	No	Array[RegionEntity]	Valid region definition
<b>RegionEntity</b>	regionType	No	String	Region type
	regionPic	No	String	Region image
	validRegion	No	String	Region coordinates

Response Parameters	Name	Required	Type	Description
	data	Yes	String	Device unique ID, generated by the system, be used to uniquely identify the device
Sample Request	<pre>{     "deviceSerial": "DeviceSerial0612",     "deviceCnName": "Device 00110",     "deviceEnName": "Device 00110",     "deviceSecret": "",     "deviceIP": "10.5.1.15",     "devicePort": "",     "desc": "",     "deviceConnType": "",     "deviceProtocol": "0",     "deviceTag": "1",     "deviceType": "2",     "deviceUri": "rtsp://admin:admin123@10.5.1.15:554",     "deviceVersion": "1.0",     "operatePerson": "1",     "productType": "12",     "matchingThreshold": "0.6",     "streamHeight": "1080",     "streamWidth": "1920",     "faceAttribute": "0",     "ingressQCThreshold": "0.4",     "ingressAngleThreshold": "15,20,30",     "frameRate": "25",     "bkImageStorage": "1",     "boundingBoxSizeThreshold": "20",     "targetGroup": "9,12,1",     "remark": "{\"name\":\"leo\"}",     "privilege": "0",     "validRegionDefinition": [         {             "regionPic":                 "/images/device/20200612/107/c4ca9b04528af00ecc7d2b10874546fc.jpg",             "regionType": "0",         }     ] }</pre>			

	<pre>         "validRegion": "[[{"x": 675, "y": 72}, {"x": 447, "y": 1038}, {"x": 1089, "y": 1044}, {"x": 804, "y": 72}, {"x": 693, "y": 75}]]"     } ] } </pre>
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": "1271372691009441794",     "success": true }</pre>

### 3.3.2 Deactivate Device

<b>API Endpoint</b>	{{studio_base_url}}/DEVICE/device/deactivate			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	did	Yes	String	Device unique ID
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data	Yes	String	Device unique ID
<b>Sample Request</b>	<pre>{     "did": "1271372691009441794",     "operatePerson": "1" }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": "1271372691009441794",     "success": true }</pre>			

### 3.3.3 Update Device

<b>API Endpoint</b>	{{studio_base_url}}/DEVICE/device/update			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			

Request Parameters	Name	Required	Type	Description
	did	Yes	String	Device unique ID
	deviceCnName	No	String	Device name
	deviceSerial	No	String	Device serial
	deviceType	No	String	Device type ID Please refer to 3.2.1 Device Type Definition
	deviceVersion	No	String	Device version
	operatePerson	No	String	Operator
	productType	No	String	Product type ID Please refer to 3.2.2 Product Type Definition
	desc	No	String	Device description
	deviceConnType	No	String	Device connection type 0: Direct connection 1: Transcoding
	deviceEnName	No	String	Device nick name
	deviceIP	No	String	Device IP
	devicePort	No	String	Device port
	deviceProtocol	No	String	Device protocol 0: TCP 1: UDP
	deviceSecret	No	String	Device login secret
	deviceTag	No	String	User-defined device tag
	deviceUri	No	String	Device URI rtsp stream URL for video camera
	sts	No	String	Device status 0: Effective 1: Ineffective 3: Deleted
	matchinThreshold	No	Double	Match threshold (0-1) Default value 0.5

	streamHeight	No	String	The height of video stream Default value 1920
	streamWidth	No	String	The width of video stream Default value 1080
	faceAttribute	No	Integer	Feature extraction switch (0: on, 1: off) Default off
	livenessCheck	No	Integer	[Deprecated] Liveness check switch (0: on, 1: off)
	ingressQCThreshold	No	String	Quality check threshold (0-1) Default value 0.3
	ingressAngleThreshold	No	String	Detection angle threshold
	frameRate	No	String	Video frame rate
	bklImageStorage	No	String	Background image storing switch (0: on, 1: off) Default off
	boundingBoxSizeThreshold	No	String	Width detection threshold Default value 20
	targetGroup	No	String	Target person groups
	remark	No	String	Remark
	privilege	No	String	Privilege (Department ID)
	validRegionDefinition	No	Array[RegionEntity]	Valid region definition
<b>RegionEntity</b>	regionType	No	String	Region type
	regionPic	No	String	Region image

	validRegion	No	String	Region coordinates
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data			

<b>Sample Request</b>	<pre>{     "did": "1265185833686667266",     "deviceSerial": "DeviceSerial0612",     "deviceCnName": "Device 00110 Update",     "deviceEnName": "Device 00110",     "deviceSecret": "",     "deviceIP": "10.5.1.15",     "devicePort": "",     "desc": "",     "deviceConnType": "",     "deviceProtocol": "0",     "deviceTag": "1",     "deviceType": "2",     "deviceUri": "rtsp://admin:admin123@10.5.1.15:554",     "deviceVersion": "1.0",     "operatePerson": "1",     "productType": "12",     "matchingThreshold": "0.6",     "streamHeight": "1080",     "streamWidth": "1920",     "faceAttribute": "0",     "ingressQCThreshold": "0.4",     "ingressAngleThreshold": "15,20,30",     "frameRate": "25",     "bkImageStorage": "1",     "boundingBoxSizeThreshold": "20",     "targetGroup": "9,12,1",     "remark": "{\"name\":\"leo\"}",     "privilege": "0",     "validRegionDefinition": [         {             "regionPic":                 "/images/device/20200612/107/c4ca9b04528af00ecc7d2b10874546fc.jpg",             "regionType": "0",         }     ] }</pre>
-----------------------	--

	<pre>         "validRegion": "[[{"x": 675, "y": 72}, {"x": 447, "y": 1038}, {"x": 1089, "y": 1044}, {"x": 804, "y": 72}, {"x": 693, "y": 75}]]"     } ] } </pre>
<b>Sample Response</b>	<pre> {     "code": "0000",     "msg": "成功",     "data": null,     "success": true } </pre>

### 3.3.4 Query Single Device Information by Device ID

<b>API Endpoint</b>	{{studio_base_url}}/DEVICE/device/info			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	did	Yes	String	Device unique ID
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		DeviceInfo	
<b>DeviceInfo</b>	deviceSerial		String	Device serial
	productType		String	Product type ID
	productTypeName		String	Product type name
	deviceType		String	Device type ID
	deviceTypeName		String	Device type name
	devicePort		String	Device port
	deviceIP		String	Device IP
	deviceUri		String	Device URI rtsp stream URL for video camera
	deviceVersion		String	Device version
	deviceConnType		String	Device connection type 0: Direct connection 1: Transcoding
	deviceProtocol		String	Device protocol 0: TCP 1: UDP

	deviceSecret		String	Device login secret
	deviceCnName		String	Device name
	deviceEnName		String	Device nick name
	deviceTag		String	User-defined device tag
	desc		String	Device description
	sts		String	Device status 0: Effective 1: Ineffective 3: Deleted
	matchingThreshold		String	Match threshold
	streamHeight		String	The height of video stream
	streamWidth		String	The width of video stream
	faceAttribute		String	Feature extraction switch (0: on, 1: off)
	livenessCheck		String	[Deprecated] Liveness check switch (0: on, 1: off)
	ingressQCThreshold		String	Quality check threshold
	ingressAngleThreshold		String	Detection angle threshold
	frameRate		String	Video frame rate
	privilege		String	Privilege (Department ID)
	bklImageStorage		String	Background image storing switch (0: on, 1: off)
	boundingBoxSizeThreshold		String	Width detection threshold
	targetGroup		String	Target person groups
	remark		String	Remark
	validRegionDefinition		Array[RegionEntity]	Valid region definition
<b>RegionEntity</b>	regionType	No	String	Region type
	regionPic	No	String	Region image
	validRegion	No	String	Region coordinates
<b>Sample Request</b>	{			

	<pre>"did": "1257915401329709058" }</pre>
Sample Response	<pre>{     "code": "0000",     "msg": "成功",     "data": {         "deviceSerial": "SPS020STDC19G07718_0",         "productType": "13",         "productName": "sensePass",         "deviceType": "15",         "deviceTypeName": "sensePass",         "devicePort": "0",         "deviceIP": "10.161.32.32",         "deviceUri": null,         "deviceVersion": "1.0.0_E",         "deviceConnType": null,         "deviceProtocol": "",         "deviceSecret": null,         "deviceCnName": "SPS020STDC19G07718",         "deviceEnName": "SPS020STDC19G07718",         "deviceTag": null,         "desc": "sample",         "sts": "1",         "matchingThreshold": null,         "streamHeight": null,         "streamWidth": null,         "faceAttribute": null,         "livenessCheck": null,         "ingressQCThreshold": null,         "ingressAngleThreshold": null,         "frameRate": null,         "privilege": "0",         "bkImageStorage": null,         "boundingBoxSizeThreshold": null,         "targetGroup": null,         "remark": null,         "validRegionDefinition": null     }, }</pre>

	"success": true }
--	----------------------

### 3.3.5 Query Multiple Device Information by Device ID

<b>API Endpoint</b>	{{studio_base_url}}/DEVICE/device/deviceInfoByDids			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	did	Yes	Array[String]	Device unique ID
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data	Yes	Array[DeviceInfo]	
<b>DeviceInfo</b>	deviceSerial		String	Device serial
	productType		String	Product type ID
	productTypeName		String	Product type name
	deviceType		String	Device type ID
	deviceTypeName		String	Device type name
	devicePort		String	Device port
	deviceIP		String	Device IP
	deviceUri		String	Device URI rtsp stream URL for video camera
	deviceVersion		String	Device version
	deviceConnType		String	Device connection type 0: Direct connection 1: Transcoding
	deviceProtocol		String	Device protocol 0: TCP 1: UDP
	deviceSecret		String	Device login secret
	deviceCnName		String	Device name
	deviceEnName		String	Device nick name
	deviceTag		String	User-defined device tag
	desc		String	Device description
	sts		String	Device status 0: Effective 1: Ineffective 3: Deleted

	matchingThreshold		String	Match threshold
	streamHeight		String	The height of video stream
	streamWidth		String	The width of video stream
	faceAttribute		String	Feature extraction switch (0: on, 1: off)
	livenessCheck		String	[Deprecated] Liveness check switch (0: on, 1: off)
	ingressQCThreshold		String	Quality check threshold
	ingressAngleThreshold		String	Detection angle threshold
	frameRate		String	Video frame rate
	privilege		String	Privilege (Department ID)
	bklImageStorage		String	Background image storing switch (0: on, 1: off)
	boundingBoxSizeThreshold		String	Width detection threshold
	targetGroup		String	Target person groups
	remark		String	Remark
	validRegionDefinition		Array[RegionEntity]	Valid region definition
RegionEntity	regionType	No	String	Region type
	regionPic	No	String	Region image
	validRegion	No	String	Region coordinates
Sample Request	[ "1257915401329709058", "1257879674839633922" ]			
Sample Response	{ "code": "0000", "msg": "成功", "data": [ { "did": "1257879674839633922", "lat": 35.86, "lon": 104.19, "width": 100, "height": 100 } ] }			

```
"deviceSerial": "SPS020STDC19G05927_0",
"deviceSecret": null,
"deviceCnName": "SenseThunder-E Mini",
"deviceEnName": "SenseThunder-E Mini",
"devicePort": "0",
"deviceIP": "10.161.60.242",
"deviceUri": null,
"deviceVersion": "1.0.0_E",
"deviceConnType": null,
"deviceProtocol": "",
"last_checked_ts": "2020-06-04T06:01:15.000+0000",
"productType": "13",
"deviceType": "15",
"deviceTag": null,
"desc": "Office",
"sts": "1",
"matchingThreshold": null,
"streamHeight": null,
"streamWidth": null,
"faceAttribute": null,
"livenessCheck": null,
"ingressQCThreshold": null,
"ingressAngleThreshold": null,
"frameRate": null,
"privilege": "0",
"bkImageStorage": null,
"boundingBoxSizeThreshold": null,
"targetGroup": null,
"remark": null,
"validRegionDefinition": null
},
{
    "did": "1257915401329709058",
    "deviceSerial": "SPS020STDC19G07718_0",
    "deviceSecret": null,
    "deviceCnName": "SPS020STDC19G07718",
    "deviceEnName": "SPS020STDC19G07718",
    "devicePort": "0",
```

```

        "deviceIP": "10.161.32.32",
        "deviceUri": null,
        "deviceVersion": "1.0.0_E",
        "deviceConnType": null,
        "deviceProtocol": "",
        "last_checked_ts": "2020-05-06T06:32:56.000+0000",
        "productType": "13",
        "deviceType": "15",
        "deviceTag": null,
        "desc": "",
        "sts": "1",
        "matchingThreshold": null,
        "streamHeight": null,
        "streamWidth": null,
        "faceAttribute": null,
        "livenessCheck": null,
        "ingressQCThreshold": null,
        "ingressAngleThreshold": null,
        "frameRate": null,
        "privilege": "0",
        "bkImageStorage": null,
        "boundingBoxSizeThreshold": null,
        "targetGroup": null,
        "remark": null,
        "validRegionDefinition": null
    }
],
"success": true
}

```

### 3.3.6 List Device

<b>API Endpoint</b>	{{studio_base_url}}/DEVICE/device/list			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	current	Yes	Integer	Query results on page #. Start from 1.
	size	Yes	Integer	Number of results per page

	did	No	String	Device unique ID
	ip	No	String	Device IP
	deviceSerial	No	String	Device serial
	desc	No	String	Device description
	deviceCnName	No	String	Device name
	deviceTag	No	String	Device tag
	deviceType	No	String	Device type ID Please refer to 3.2.1 Device Type Definition
	productType	No	String	Product type ID Please refer to 3.2.2 Product Type Definition
	remark	No	String	Remark
	sts	No	String	Device status 0: Effective 1: Ineffective 3: Deleted
Response Parameters	Name	Required	Type	Description
	data	Yes	Array[DeviceInfo]	
<b>DeviceInfo</b>	did		String	Device unique ID
	deviceSerial		String	Device serial
	productType		String	Product type ID
	productTypeName		String	Product type name
	productTypeEnName		String	Product type English name
	deviceType		String	Device type ID
	deviceTypeName		String	Device type name
	deviceTypeEnName		String	Device type English name
	deviceCnName		String	Device name
	deviceEnName		String	Device nick name
	deviceTag		String	User-defined device tag
	desc		String	Device description
	sts		String	Device status 0: Effective 1: Ineffective 3: Deleted
	devicelp		String	Device IP
	privilege		String	Privilege (Department ID)

	matchingThreshold		String	Match threshold
	faceAttribute		String	Feature extraction switch (0: on, 1: off)
	remark		String	Remark
	livenessCheck		String	[Deprecated] Liveness check switch (0: on, 1: off)
	ingressQCThreshold		String	Quality check threshold
<b>Sample Request</b>	<pre>{     "current": 1,     "size": 100,     "did": "",     "ip": "",     "deviceSerial": "",     "desc": "",     "deviceCnName": "",     "deviceTag": "",     "deviceType": [         "0",         "1",         "2"     ],     "productType": [         "1",         "2",         "3"     ],     "remark": "",     "sts": "0" }</pre>			
<b>Sample Response</b>	<pre>{     "data": [         {             "did": "1272374819588935682",             "deviceSerial": "SPSP-1cdc87f0466cd54940509a90e42f30e0",             "productType": "1",             "productName": "senseKeeper",             "productEnName": "senseKeeper",             "status": "0"         }     ] }</pre>			

	<pre>         "deviceType": "1",         "deviceTypeName": "Keeper",         "deviceTypeEnName": "Keeper",         "deviceCnName": "SPS020PROC19F00272",         "deviceEnName": "Testing00272",         "deviceTag": null,         "desc": "Singapore",         "sts": "0",         "devicelp": "10.161.32.83",         "privilege": "0",         "matchingThreshold": null,         "faceAttribute": "1",         "remark": null,         "livenessCheck": "1",         "ingressQCThreshold": null     } ], "size": 100, "total": 1, "code": "0000", "msg": "success" } </pre>
--	--

### 3.3.1 Validate Device Status

<b>API Endpoint</b>	{{studio_base_url}}/DEVICE/device/validateDeviceSts			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	did	No	String	Device unique ID Mandatory when deviceSerial, deviceType, productType are empty
	deviceSerial	No	String	Device serial Mandatory when did is empty
	productType	No	String	Product type ID Please refer to 3.2.2 Product Type Definition

				Mandatory when did is empty
	deviceType	No	String	Device type ID Please refer to 3.2.1 Device Type Definition Mandatory when did is empty
Response Parameters	Name	Required	Type	Description
	data	Yes	Array[DeviceInfo]	
<b>DeviceInfo</b>	deviceId		String	Device unique ID
	deviceSerial		String	Device serial
	productType		String	Product type ID
	productTypeName		String	Product type name
	deviceType		String	Device type ID
	deviceTypeName		String	Device type name
	devicePort		String	Device port
	deviceIP		String	Device IP
	deviceUri		String	Device URI
	deviceVersion		String	Device version
	deviceConnType		String	Device connection type 0: Direct connection 1: Transcoding
	deviceProtocol		String	Device protocol 0: TCP 1: UDP
	deviceSecret		String	Device secret key
	deviceCnName		String	Device name
	deviceEnName		String	Device nick name
	deviceTag		String	User-defined device tag
	desc		String	Device description
	sts		String	Device status 0: Effective 1: Ineffective 3: Deleted
Sample Request	{ "did": "1257879674839633922" }			

	<pre> or {   "deviceSerial": "SPS020STDC19G05927_0",   "productType": "13",   "deviceType": "15" } </pre>
<b>Sample Response</b>	<pre> {   "code": "0000",   "msg": "成功",   "data": {     "deviceId": "1257879674839633922",     "deviceSerial": "SPS020STDC19G05927_0",     "productType": "13",     "productName": "sensePass",     "deviceType": "15",     "deviceName": "sensePass",     "devicePort": "0",     "deviceIP": "10.161.60.242",     "deviceUri": null,     "deviceVersion": "1.0.0_E",     "deviceConnType": null,     "deviceProtocol": "",     "deviceSecret": null,     "deviceCnName": "SenseThunder-E Mini",     "deviceEnName": "SenseThunder-E Mini",     "deviceTag": null,     "desc": "Office",     "sts": "0"   },   "success": true } </pre>

### 3.3.1 Check Device Status

<b>API Endpoint</b>	{{studio_base_url}}/DEVICE/device/checkDeviceSts			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	deviceType	No	String	Device type ID

<b>(in JSON array)</b>				Please refer to 3.2.1 Device Type Definition
	productType	No	String	Product type ID Please refer to 3.2.2 Product Type Definition
	timeInterval	No	String	Checking time interval in minutes
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data	Yes	String	null
<b>Sample Request</b>	<pre>[   {     "deviceType": "1",     "productType": "1",     "timeInterval": "10"   },   {     "deviceType": "7",     "productType": "9",     "timeInterval": "10"   },   {     "deviceType": "10",     "productType": "1",     "timeInterval": "2"   } ]</pre>			
<b>Sample Response</b>	<pre>{   "code": "0000",   "msg": "成功",   "data": null,   "success": true }</pre>			

### 3.3.2 List Device Type

<b>API Endpoint</b>	{{{{studio_base_url}}/DEVICE/deviceType/list}}			
<b>Method</b>	GET			
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data	Yes	Array[DeviceTypeInfo]	

<b>DeviceTypeInfo</b>	deviceTypeId		String	Device type ID
	deviceTypeCnName		String	Chinese device type Name
	deviceTypeEnName		String	English device type name
	registryId		String	Registry ID
	symphonyId		String	Symphony ID
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": [         {             "deviceTypeId": "0",             "deviceTypeCnName": "Terminal",             "deviceTypeEnName": "Terminal",             "registryId": null,             "symphonyId": null         },         {             "deviceTypeId": "12",             "deviceTypeCnName": "VirtualMatch",             "deviceTypeEnName": "VirtualMatch",             "registryId": null,             "symphonyId": null         },         {             "deviceTypeId": "14",             "deviceTypeCnName": "compareCamera",             "deviceTypeEnName": "compareCamera",             "registryId": null,             "symphonyId": null         },         {             "deviceTypeId": "15",             "deviceTypeCnName": "sensePass",             "deviceTypeEnName": "sensePass",             "registryId": null,             "symphonyId": null         }     ] }</pre>			

```
{  
    "deviceTypeId": "16",  
    "deviceTypeCnName": "抓拍机-T",  
    "deviceTypeEnName": "CaptureCamera-T",  
    "registryId": null,  
    "symphonyId": null  
},  
{  
    "deviceTypeId": "17",  
    "deviceTypeCnName": "sensePass Pro",  
    "deviceTypeEnName": "sensePass Pro",  
    "registryId": null,  
    "symphonyId": null  
},  
{  
    "deviceTypeId": "18",  
    "deviceTypeCnName": "人脸抠图摄像头",  
    "deviceTypeEnName": "Face Detecting camera",  
    "registryId": null,  
    "symphonyId": null  
},  
{  
    "deviceTypeId": "19",  
    "deviceTypeCnName": "访客版终端",  
    "deviceTypeEnName": "Terminal-Visitor",  
    "registryId": null,  
    "symphonyId": null  
},  
{  
    "deviceTypeId": "20",  
    "deviceTypeCnName": "抓拍机-11",  
    "deviceTypeEnName": "CaptureCamera-11",  
    "registryId": null,  
    "symphonyId": null  
},  
{  
    "deviceTypeId": "21",  
    "deviceTypeCnName": "区域结构摄像头",  
}
```

```
"deviceTypeEnName": "Senseye-Region",
"registryId": null,
"symphonyId": null
},
{
  "deviceTypeId": "1",
  "deviceTypeCnName": "Keeper",
  "deviceTypeEnName": "Keeper",
  "registryId": null,
  "symphonyId": null
},
{
  "deviceTypeId": "22",
  "deviceTypeCnName": "结构摄像头",
  "deviceTypeEnName": "Senseye-X",
  "registryId": null,
  "symphonyId": null
},
{
  "deviceTypeId": "23",
  "deviceTypeCnName": "华为抓拍机",
  "deviceTypeEnName": "huawei snapshot camera",
  "registryId": null,
  "symphonyId": null
},
{
  "deviceTypeId": "24",
  "deviceTypeCnName": "dlc-D",
  "deviceTypeEnName": "dlc-D",
  "registryId": null,
  "symphonyId": null
},
{
  "deviceTypeId": "25",
  "deviceTypeCnName": "海康抓拍机",
  "deviceTypeEnName": "haikang snapshot camera",
  "registryId": null,
  "symphonyId": null
}
```

```
        },
        {
            "deviceTypeId": "26",
            "deviceTypeCnName": "sensegate-H",
            "deviceTypeEnName": "sensegate-H",
            "registryId": null,
            "symphonyId": null
        },
        {
            "deviceTypeId": "27",
            "deviceTypeCnName": "大华抓拍机",
            "deviceTypeEnName": "dahua snapshot camera",
            "registryId": null,
            "symphonyId": null
        },
        {
            "deviceTypeId": "28",
            "deviceTypeCnName": "senseyeApp",
            "deviceTypeEnName": "senseyeApp",
            "registryId": null,
            "symphonyId": null
        },
        {
            "deviceTypeId": "2",
            "deviceTypeCnName": "摄像机",
            "deviceTypeEnName": "Camera",
            "registryId": null,
            "symphonyId": null
        },
        {
            "deviceTypeId": "3",
            "deviceTypeCnName": "抓拍机",
            "deviceTypeEnName": "GrabMachine",
            "registryId": null,
            "symphonyId": null
        },
        {
            "deviceTypeId": "6",
```

```
"deviceTypeCnName": "GB2818",
"deviceTypeEnName": "GB2818",
"registryId": null,
"symphonyId": null
},
{
  "deviceTypeId": "9",
  "deviceTypeCnName": "前置服务器",
  "deviceTypeEnName": "Server",
  "registryId": null,
  "symphonyId": null
},
{
  "deviceTypeId": "7",
  "deviceTypeCnName": "Pad",
  "deviceTypeEnName": "Pad",
  "registryId": null,
  "symphonyId": null
},
{
  "deviceTypeId": "10",
  "deviceTypeCnName": "VirtualGate",
  "deviceTypeEnName": "VirtualGate",
  "registryId": null,
  "symphonyId": null
},
{
  "deviceTypeId": "11",
  "deviceTypeCnName": "VirtualId",
  "deviceTypeEnName": "VirtualId",
  "registryId": null,
  "symphonyId": null
}
],
"success": true
}
```

### 3.3.3 List Product Type

<b>API Endpoint</b>	{{studio_base_url}}/DEVICE/productType/list			
<b>Method</b>	GET			
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data	Yes	Array[DeviceTypeInfo]	
<b>DeviceTypeInfo</b>	productId		String	Product type ID
	productTypeCnName		String	Chinese product type Name
	productTypeEnName		String	English product type name
	registryId		String	Registry ID
	symphonyId		String	Symphony ID
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": [         {             "productId": "0",             "productTypeCnName": "senseID",             "productTypeEnName": "senseID",             "registryId": null,             "symphonyId": null         },         {             "productId": "9",             "productTypeCnName": "senseHello",             "productTypeEnName": "senseHello",             "registryId": null,             "symphonyId": null         },         {             "productId": "10",             "productTypeCnName": "ViperImage",             "productTypeEnName": "ViperImage",             "registryId": null,             "symphonyId": null         }     ] }</pre>			

```
"productTypeId": "11",
"produtTypeCnName": "SenseNebula",
"produtTypeEnName": "SenseNebula",
"registryId": null,
"symphonyId": null
},
{
"productTypeId": "12",
"produtTypeCnName": "SensEye",
"produtTypeEnName": "SensEye",
"registryId": null,
"symphonyId": null
},
{
"productTypeId": "13",
"produtTypeCnName": "sensePass",
"produtTypeEnName": "sensePass",
"registryId": null,
"symphonyId": null
},
{
"productTypeId": "14",
"produtTypeCnName": "SenseClass",
"produtTypeEnName": "SenseClass",
"registryId": null,
"symphonyId": null
},
{
"productTypeId": "15",
"produtTypeCnName": "ViperFace",
"produtTypeEnName": "ViperFace",
"registryId": null,
"symphonyId": null
},
{
"productTypeId": "1",
"produtTypeCnName": "senseKeeper",
"produtTypeEnName": "senseKeeper",
```

```
        "registryId": null,  
        "symphonyId": null  
    },  
    {  
        "productTypeId": "2",  
        "produtTypeCnName": "senseFace",  
        "produtTypeEnName": "senseFace",  
        "registryId": null,  
        "symphonyId": null  
    },  
    {  
        "productTypeId": "3",  
        "produtTypeCnName": "senseCity",  
        "produtTypeEnName": "senseCity",  
        "registryId": null,  
        "symphonyId": null  
    },  
    {  
        "productTypeId": "5",  
        "produtTypeCnName": "senseCrowd",  
        "produtTypeEnName": "senseCrowd",  
        "registryId": null,  
        "symphonyId": null  
    },  
    {  
        "productTypeId": "6",  
        "produtTypeCnName": "DLC",  
        "produtTypeEnName": "DLC",  
        "registryId": null,  
        "symphonyId": null  
    },  
    {  
        "productTypeId": "7",  
        "produtTypeCnName": "senseGo",  
        "produtTypeEnName": "senseGo",  
        "registryId": null,  
        "symphonyId": null  
    }  
}
```

	<pre>],   "success": true }</pre>
--	-----------------------------------

## 3.4 Track Management

### 3.4.1 List Track

<b>API Endpoint</b>	{{studio_base_url}}/DEVICE/edge/list			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	edgeNodeId	No	Array[String]	Device ID
	desc	No	String	Track description
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data	Yes	Array[TrackInfo]	
	<b>TrackInfo</b>			
<b>Sample Request</b>	edgeFrom		String	Source device ID
	edgeTo		String	Destination device ID
	edgeWeight		String	Track distance
	desc		String	Track description
	sts		String	Track status
	eid		String	Track unique ID
<b>Sample Response</b>	<pre>{   "edgeNodeId": [     "1242646289435332610"   ],   "desc": "sample",   "sts": "0" }</pre>			
	<pre>{   "code": "0000",   "msg": "成功",   "data": [     {       "edgeFrom": "1242699162579898369",       "edgeTo": "1242646289435332610",       "edgeWeight": "10",       "desc": "track sample",     }   ] }</pre>			

	<pre>         "sts": "0",         "eid": "1272398357490307073"       }     ],     "success": true   } </pre>
--	--

### 3.4.2 Query Track Information

<b>API Endpoint</b>	{{studio_base_url}}/DEVICE/edge/info			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
Request Parameters	Name	Required	Type	Description
	eid	Yes	String	Track unique ID
Response Parameters	Name	Required	Type	Description
	data		TrackInfo	
<b>TrackInfo</b>	edgeFrom		String	Source device ID
	edgeTo		String	Destination device ID
	edgeWeight		String	Track distance
	desc		String	Track description
	sts		String	Track status
	eid		String	Track unique ID
<b>Sample Request</b>	1272398357490307073			
<b>Sample Response</b>	<pre>{   "code": "0000",   "msg": "成功",   "data": {     "edgeFrom": "1242699162579898369",     "edgeTo": "1242646289435332610",     "edgeWeight": "10",     "desc": "track sample",     "sts": "0"   },   "success": true }</pre>			

### 3.4.3 Create Track

<b>API Endpoint</b>	{{studio_base_url}}/DEVICE/edge/create
---------------------	--

<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	edgeFrom	Yes	String	Source device ID
	edgeTo	Yes	String	Destination device ID
	edgeWeight	Yes	String	Track distance
	desc	Yes	String	Track description
<b>Response Parameters</b>	Name	Required	Type	Description
	data	Yes	String	Track unique ID, generated by the system, be used to uniquely identify the track
<b>Sample Request</b>	<pre>{     "edgeFrom": "988247532818780162",     "edgeTo": "988247532818780164",     "edgeWeight": "2",     "desc": "Track Desc",     "operatePerson": "1" }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": "1272405695697784833",     "success": true }</pre>			

### 3.4.4 Deactivate Track

<b>API Endpoint</b>	{{studio_base_url}}/DEVICE/edge/deactivate			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	eid	Yes	String	Track unique ID
	operatePerson	Yes	String	Operator
<b>Response Parameters</b>	Name	Required	Type	Description
	data		String	Track unique ID
<b>Sample Request</b>	<pre>{     "eid": "1272405695697784833",     "operatePerson": "1" }</pre>			

	}
<b>Sample Response</b>	{         "code": "0000",         "msg": "成功",         "data": "1272405695697784833",         "success": true     }

### 3.4.5 Fill Device Path

<b>API Endpoint</b>	{{studio_base_url}}/DEVICE/edge/fillDevicePath			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters (in JSON Array)</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	deviceId	Yes	String	Device ID
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		Array[DevicePath]	
<b>DevicePath</b>	deviceId		String	Device ID
	nodeType		String	Node type
<b>Sample Request</b>	[ { "deviceId": "1242699162579898369", "dateTime": "2020-06-15 10:00:00" }, { "deviceId": "1242646289435332610", "dateTime": "2020-06-15 10:02:00" } ]			
<b>Sample Response</b>	{         "code": "0000",         "msg": "成功",         "data": [             {                 "deviceId": "1242699162579898369",                 "nodeType": "0"             }         ]       }			

```

},
{
    "deviceId": "1242646289435332610",
    "nodeType": "0"
}
],
"success": true
}

```

## 3.5 BI Device Management

### 3.5.1 Set BI Device Configuration

<b>API Endpoint</b>	{{studio_base_url}}/DEVICE/biDeviceInfo/setBIDeviceConfig			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
Request Parameters	Name	Required	Type	Description
	deviceUuid	Yes	String	Device unique ID
	deviceProductTypeUuid	Yes	String	Product type uuid
	deviceTypeUuid	Yes	String	Device type uuid
	operatePerson	Yes	String	Operator
	serverVerify	No	String	Backend recognition 0: off; 1: on; 2: compatible
	serverAddress		String	Recognition server address
	ntpServerAddress		String	NTP server address
	otherServer		String	Third-party service configuration true: on; false: off
	otherServerAddress		String	Third-party upload address
	networkRelayAddress		String	Network relay address
	faceUpdateThreshold		String	Face alignment threshold
	yaw		String	Acceptable yaw degree
	pitch		String	Acceptable pitch degree
	roll		String	Acceptable roll degree
	faceWidth		String	Face width (pixel)
	wakeUpDistance		String	Device awake distance (cm)
	recognitionDistance		String	Recognition distance (m)
	liveness		String	Liveness detection true: on; false: off

	livenessThreshold		String	Liveness detection threshold
	verifyThreshold		String	FR match threshold
	logo		String	Logo display (true/false)
	videoTip		String	Video message
	welcomeTip		String	Welcome message
	showName		String	Name display (true/false)
	showAvatarType		String	Avatar type display
	verifyFaultRoleTip		String	Role tag display when face not recognized
	livenessSuccessRoleTip		String	Role tag display when liveness detection success
	livenessSuccessTip		String	Message display when liveness detection success
	verifySuccessTip		String	Message display when recognition success
	verifyFaultTip		String	Message display when face not recognized
	useShowAvatar		String	[SensePassPro] Person avatar display (true/false)
	showUserName		String	[SensePassPro] Name display (true/false)
	showUserInfo		String	[SensePass] User info display when recognition success 0: false; 1: true 1 <sup>st</sup> digit – Job number 2 <sup>nd</sup> digit – Department 3 <sup>rd</sup> digit – Position 4 <sup>th</sup> digit – ID number 5 <sup>th</sup> digit – Custom message E.g. "01000" means show department only
	autoLed		String	Auto fill light true: on; false: off
	fillLight		String	[SensePassPro]

			Auto fill light true: on; false: off
forcedOpenUpload		String	Forced open gate true: on; false: off
dismantleUpload		String	Tamper alarm true: on; false: off
guestNotification		String	Welcome notice true: on; false: off
voice		String	Voice cast true: on; false: off
voiceBroadcast		String	[SensePassPro] Voice cast true: on; false: off
infraredProbe		String	Infrared sensor true: on; false: off
startTime		String	Start time (Unix timestamp)
endTime		String	End time (Unix timestamp)
buzzerStatus		String	[SensePass] Buzzer status true: on; false: off
gpioA		String	GPIO A output
gpioB		String	GPIO B input
gpioC		String	GPIO C input
openDoorTime		String	Gate open delay time (s)
openInterval		String	Gate open interval
keepDoorOpenDuration		String	Gate open duration (s)
wiganInput		String	Wiegand input 1: N.A. 2: Wiegand26(8+16bit ID) 3: Wiegand26(24bit ID) 4: Wiegand32 5: Wiegand34

	openDoorType		String	Open mode 0: Local relay 1: Wiegand26(8+16bit ID) 2: Wiegand32 3: Wiegand34 4: Network relay 5: Wiegand26(24bit ID) 8: Bluetooth
	standbyOpen		String	Standby switch true: on; false: off
	faceNum		String	Capture face number
	noActionThreshold		String	Repeated times when no respond
	noMatchThreshold		String	Repeated times when unmatched
	configDefaultFlag		String	[SensePass] Reset to default settings (true/false)
	deviceRunType		String	[SensePass] Device state 1: Running 2: Stopped
	autoReboot		String	[SensePass] Auto reboot true: on; false: off
	rebootTime		String	[SensePass] Device reboot time HH:mm:ss
	waitTime		String	Standby time (min)
	simplifyModel		String	Lite mode true: on; false: off
	adminPwd		String	Admin password
	dormancyType		String	Sleep mode 0: Sleep 1: Multimedia

	languageType		String	[SensePass] Display language 1: Chinese 2: English
	useMode		String	[SensePass] Device mode 1: Gate control 2: Door security
	proUseMode		String	[SensePassPro] Device mode 3: Single-person 4: Multi-person
	mode		String	Verification mode
	blackListTip		String	Blacklist message
	blackListOpen		String	Gate open for blacklist true: on; false: off
	deviceRebootTime		String	Device reboot time
	bluetoothMac		String	Bluetooth MAC address
	changeServerUrl		String	Change server URL
	deviceButtonName1		String	Name of custom button 1
	deviceButtonValue1		String	Value of custom button 1
	deviceButtonName2		String	Name of custom button 2
	deviceButtonValue2		String	Value of custom button 2
	deviceButtonName3		String	Name of custom button 3
	deviceButtonValue3		String	Value of custom button 3
	deviceButtonName4		String	Name of custom button 4
	deviceButtonValue4		String	Value of custom button 4

	deviceButtonName5		String	Name of custom button 5
	deviceButtonValue5		String	Value of custom button 5
	deviceButtonName6		String	Name of custom button 6
	deviceButtonValue6		String	Value of custom button 6
	certificateThreshold		String	Certification match threshold
	strongHint		String	Strong prompt true: on; false: off
	saveElecMode		String	Power saving mode true: on; false: off
	touchRecognition		String	Touch recognition true: on; false: off
	touchRecognitionCustomPicture		String	Touch recognition custom picture
	touchRecognitionReturnTime		String	Touch recognition return time
	touchRecognitionTimeout		String	Touch recognition timeout
	doorSensorTimeout		String	Door sensor timeout time
	wakeDistance		String	Wakeup distance detection
	wifiSsid		String	WIFI SSID
	wifiPwd		String	WIFI password
	temperatureDetect		String	Temperature detection true: on; false: off
	feverTemperature		String	Temperature detection threshold (°C)
	noAccessToFavers		String	No admittance with fever true: on; false: off
	showThermalScreen		String	Thermograph display true: on; false: off
	indoorTemperature		String	Indoor temperature (°C)

	temperatureDetectDistance		String	Temperature detection distance (m)
	quickDetectMode		String	Fast temperature detection mode true: on; false: off
	maskDetect		String	Mask detection true: on; false: off
	noAccessWithoutMask		String	No admittance without mask true: on; false: off
	accessControlStatus		String	Access control status
	accessControlTimetable		String	Access control timetable
	timetableUpdTs		String	Timetable last updated time
Response Parameters	Name	Required	Type	Description
	data		String	Device unique ID
Sample Request	{ "deviceUuid": "1257915401329709058", "deviceProductTypeUuid": "13", "deviceTypeUuid": "15", "operatePerson": "1", "serverVerify": "0", "serverAddress": "127.0.0.1", "ntpServerAddress": "127.0.0.1", "otherServer": "true", "otherServerAddress": "127.0.0.1", "networkRelayAddress": "127.0.0.1", "faceUpdateThreshold": "0", "yaw": "18", "pitch": "18", "roll": "18", "faceWidth": "60", "wakeUpDistance": "6", "recognitionDistance": "1.5", "liveness": "true", "livenessThreshold": "0.98", "verifyThreshold": "0.9", "logo": "true", }			

```
"videoTip": "video message",
"welcomeTip": "",
"showName": "true",
"showAvatarType": "1",
"verifyFaultRoleTip": "failed role tag",
"livenessSuccessRoleTip": "role",
"livenessSuccessTip": "success",
"verifySuccessTip": "",
"verifyFaultTip": "",
"useShowAvatar": "true",
"showUserName": "true",
"showUserInfo": "00000",
"autoLed": "true",
"fillLight": "true",
"forcedOpenUpload": "false",
"dismantleUpload": "false",
"guestNotification": "false",
"voice": "true",
"voiceBroadcast": "true",
"infraredProbe": "true",
"startTime": "1545647713",
"endTime": "1545687713",
"buzzerStatus": "true",
"gpioA": "1",
"gpioB": "1",
"gpioC": "1",
"openDoorTime": "5",
"openInterval": "5",
"keepDoorOpenDuration": "6",
"wiganInput": "1",
"openDoorType": "0",
"standbyOpen": "true",
"faceNum": "1",
"noActionThreshold": "10",
"noMatchThreshold": "3",
"configDefaultFlag": "false",
"deviceRunType": "1",
"autoReboot": "true",
```

```
"rebootTime": "02:00:00",
"waitTime": "5",
"simplifyModel": "false",
"adminPwd": "admin",
"dormancyType": "0",
"languageType": "2",
"useMode": "2",
"proUseMode": "2",
"mode": "9",
"blackListTip": "",
"blackListOpen": "false",
"deviceRebootTime": "",
"bluetoothMac": "",
"changeServerUrl": "",
"deviceButtonName1": "",
"deviceButtonValue1": "",
"deviceButtonName2": "",
"deviceButtonValue2": "",
"deviceButtonName3": "",
"deviceButtonValue3": "",
"deviceButtonName4": "",
"deviceButtonValue4": "",
"deviceButtonName5": "",
"deviceButtonValue5": "",
"deviceButtonName6": "",
"deviceButtonValue6": "",
"certificateThreshold": "0.6",
"strongHint": "false",
"saveElecMode": "false",
"touchRecognition": "false",
"touchRecognitionCustomPicture": "",
"touchRecognitionReturnTime": "5",
"touchRecognitionTimeout": "5",
"doorSensorTimeout": "3",
"wakeDistance": "150",
"wifiSsid": "",
"wifiPwd": "",
"temperatureDetect": ""
```

	<pre>     "feverTemperature": "",      "noAccessToFever": "",      "showThermalScreen": "",      "indoorTemperature": "",      "temperatureDetectDistance": "",      "quickDetectMode": "",      "maskDetect": "",      "noAccessWithoutMask": "",      "accessControlStatus": "",      "accessControlTimetable": "",      "timetableUpdTs": ""   </pre> }
<b>Sample Response</b>	<pre> {   "code": "0000",   "msg": "成功",   "data": "1257915401329709058",   "success": true } </pre>

### 3.5.2 List BI Device Configuration (Pagination)

<b>API Endpoint</b>	{{studio_base_url}}/DEVICE/biDeviceInfo/getBIDeviceConfigPageList			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	current	Yes	Integer	Query results on page #. Start from 1.
	size	Yes	Integer	Number of results per page
	deviceUuid	No	String	Device unique ID
<b>Response Parameters</b>	Name	Required	Type	Description
	data	Yes	Array[BIDeviceConfig]	
<b>BIDeviceConfig</b>	deviceUuid		String	Device unique ID
	serverVerify		String	Backend recognition 0: off; 1: on; 2: compatible

	serverAddress	String	Recognition server address
	ntpServerAddress	String	NTP server address
	otherServer	String	Third-party service configuration true: on; false: off
	otherServerAddress	String	Third-party upload address
	networkRelayAddress	String	Network relay address
	faceUpdateThreshold	String	Face alignment threshold
	yaw	String	Acceptable yaw degree
	pitch	String	Acceptable pitch degree
	roll	String	Acceptable roll degree
	faceWidth	String	Face width (pixel)
	wakeUpDistance	String	Device awake distance (cm)
	recognitionDistance	String	Recognition distance (m)
	liveness	String	Liveness detection true: on; false: off
	livenessThreshold	String	Liveness detection threshold
	verifyThreshold	String	FR match threshold
	logo	String	Logo display (true/false)
	videoTip	String	Video message
	welcomeTip	String	Welcome message
	showName	String	Name display (true/false)
	showAvatarType	String	Avatar type display

	verifyFaultRoleTip	String	Role tag display when face not recognized
	livenessSuccessRoleTip	String	Role tag display when liveness detection success
	livenessSuccessTip	String	Message display when liveness detection success
	verifySuccessTip	String	Message display when recognition success
	verifyFaultTip	String	Message display when face not recognized
	useShowAvatar	String	[SensePassPro] Person avatar display (true/false)
	showUserName	String	[SensePassPro] Name display (true/false)
	showUserInfo	String	[SensePass] User info display when recognition success 0: false; 1: true 1 <sup>st</sup> digit – Job number 2 <sup>nd</sup> digit – Department 3 <sup>rd</sup> digit – Position 4 <sup>th</sup> digit – ID number 5 <sup>th</sup> digit – Custom message E.g. "01000" means show department only

	autoLed		String	Auto fill light true: on; false: off
	fillLight		String	[SensePassPro] Auto fill light true: on; false: off
	forcedOpenUpload		String	Forced open gate true: on; false: off
	dismantleUpload		String	Tamper alarm true: on; false: off
	guestNotification		String	Welcome notice true: on; false: off
	voice		String	Voice cast true: on; false: off
	voiceBroadcast		String	[SensePassPro] Voice cast true: on; false: off
	infraredProbe		String	Infrared sensor true: on; false: off
	startTime		String	Start time (Unix timestamp)
	endTime		String	End time (Unix timestamp)
	buzzerStatus		String	[SensePass] Buzzer status true: on; false: off
	gpioA		String	GPIO A output
	gpioB		String	GPIO B input
	gpioC		String	GPIO C input
	openDoorTime		String	Gate open delay time (s)
	openInterval		String	Gate open interval
	keepDoorOpenDuration		String	Gate open duration (s)
	wiganInput		String	Wiegand input 1: N.A. 2: Wiegand26(8+16bit ID)

				3: Wiegand26(24bit ID) 4: Wiegand32 5: Wiegand34
	openDoorType		String	Open mode 0: Local relay 1: Wiegand26(8+16bit ID) 2: Wiegand32 3: Wiegand34 4: Network relay 5: Wiegand26(24bit ID) 8: Bluetooth
	standbyOpen		String	Standby switch true: on; false: off
	faceNum		String	Capture face number
	noActionThreshold		String	Repeated times when no respond
	noMatchThreshold		String	Repeated times when unmatched
	configDefaultFlag		String	[SensePass] Reset to default settings (true/false)
	deviceRunType		String	[SensePass] Device state 1: Running 2: Stopped
	autoReboot		String	[SensePass] Auto reboot true: on; false: off
	rebootTime		String	[SensePass] Device reboot time HH:mm:ss
	waitTime		String	Standby time (min)
	simplifyModel		String	Lite mode

			true: on; false: off
adminPwd		String	Admin password
dormancyType		String	Sleep mode 0: Sleep 1: Multimedia
languageType		String	[SensePass] Display language 1: Chinese 2: English
useMode		String	[SensePass] Device mode 1: Gate control 2: Door security
proUseMode		String	[SensePassPro] Device mode 3: Single-person 4: Multi-person
mode		String	Verification mode
deviceProductTypeUuid		String	Product type uuid
deviceTypeUuid		String	Device type uuid
blackListTip		String	Blacklist message
blackListOpen		String	Gate open for blacklist true: on; false: off
deviceRebootTime		String	Device reboot time
bluetoothMac		String	Bluetooth MAC address
changeServerUrl		String	Change server URL
deviceButtonName1		String	Name of custom button 1
deviceButtonValue1		String	Value of custom button 1
deviceButtonName2		String	Name of custom button 2
deviceButtonValue2		String	Value of custom button 2

	deviceButtonName3	String	Name of custom button 3
	deviceButtonValue3	String	Value of custom button 3
	deviceButtonName4	String	Name of custom button 4
	deviceButtonValue4	String	Value of custom button 4
	deviceButtonName5	String	Name of custom button 5
	deviceButtonValue5	String	Value of custom button 5
	deviceButtonName6	String	Name of custom button 6
	deviceButtonValue6	String	Value of custom button 6
	certificateThreshold	String	Certification match threshold
	strongHint	String	Strong prompt true: on; false: off
	saveElecMode	String	Power saving mode true: on; false: off
	touchRecognition	String	Touch recognition true: on; false: off
	touchRecognitionCustomPicture	String	Touch recognition custom picture
	touchRecognitionReturnTime	String	Touch recognition return time
	touchRecognitionTimeout	String	Touch recognition timeout
	doorSensorTimeout	String	Door sensor timeout time
	wakeDistance	String	Wakeup distance detection
	wifiSsid	String	WIFI SSID
	wifiPwd	String	WIFI password
	temperatureDetect	String	Temperature detection

				true: on; false: off
feverTemperature		String	Temperature detection threshold (°C)	
noAccessToFavers		String	No admittance with fever	true: on; false: off
showThermalScreen		String	Thermograph display	true: on; false: off
indoorTemperature		String	Indoor temperature (°C)	
temperatureDetectDistance		String	Temperature detection distance (m)	
quickDetectMode		String	Fast temperature detection mode	true: on; false: off
maskDetect		String	Mask detection	true: on; false: off
noAccessWithoutMask		String	No admittance without mask	true: on; false: off
accessControlStatus		String	Access control status	
accessControlTimetable		String	Access control timetable	
timetableUpdTs		String	Timetable last updated time	
<b>Sample Request</b>	<pre>{   "current": 1,   "size": 10,   "deviceUuid": "1257915401329709058" }</pre>			
<b>Sample Response</b>	<pre>{   "data": [     {       "deviceUuid": "1257915401329709058",       ...     }   ] }</pre>			

```
"serverVerify": "0",
"serverAddress": "127.0.0.1",
"ntpServerAddress": "127.0.0.1",
"otherServer": "true",
"otherServerAddress": "127.0.0.1",
"networkRelayAddress": "127.0.0.1",
"faceUpdateThreshold": "0",
"yaw": "18",
"pitch": "18",
"roll": "18",
"faceWidth": "60",
"wakeUpDistance": "6",
"recognitionDistance": "1.5",
"liveness": "true",
"livenessThreshold": "0.98",
"verifyThreshold": "0.9",
"logo": "true",
"videoTip": "video message",
>welcomeTip": "",
"showName": "true",
"showAvatarType": "1",
"verifyFaultRoleTip": "failed role tag",
"livenessSuccessRoleTip": "role",
"livenessSuccessTip": "success",
"verifySuccessTip": "",
"verifyFaultTip": "",
"useShowAvatar": "true",
"showUserName": "true",
"showUserInfo": "00000",
"autoLed": "true",
"fillLight": "true",
"forcedOpenUpload": "false",
>dismantleUpload": "false",
"guestNotification": "false",
"voice": "true",
"voiceBroadcast": "true",
"infraredProbe": "true",
"startTime": "1545647713",
```

```
"endTime": "1545687713",
"buzzerStatus": "true",
"gpioA": "1",
"gpioB": "1",
"gpioC": "1",
"openDoorTime": "5",
"openInterval": "5",
"keepDoorOpenDuration": "6",
"wiganInput": "1",
"openDoorType": "0",
"standbyOpen": "true",
"faceNum": "1",
"noActionThreshold": "10",
"noMatchThreshold": "3",
"configDefaultFlag": "false",
"deviceRunType": "1",
"autoReboot": "true",
"rebootTime": "02:00:00",
"waitTime": "5",
"simplifyModel": "false",
"adminPwd": "admin",
"dormancyType": "0",
"languageType": "2",
"useMode": "2",
"proUseMode": "2",
"mode": "9",
"deviceProductTypeUuid": "13",
"deviceTypeUuid": "15",
"blackListTip": "",
"blackListOpen": "false",
"deviceRebootTime": "",
"bluetoothMac": "",
"changeServerUrl": "",
"deviceButtonName1": "",
"deviceButtonValue1": "",
"deviceButtonName2": "",
"deviceButtonValue2": "",
"deviceButtonName3": ""
```

```
"deviceButtonValue3": "",  
"deviceButtonName4": "",  
"deviceButtonValue4": "",  
"deviceButtonName5": "",  
"deviceButtonValue5": "",  
"deviceButtonName6": "",  
"deviceButtonValue6": "",  
"certificateThreshold": "0.6",  
"strongHint": "false",  
"saveElecMode": "false",  
"touchRecognition": "false",  
"touchRecognitionCustomPicture": "",  
"touchRecognitionReturnTime": "5",  
"touchRecognitionTimeout": "5",  
"doorSensorTimeout": "3",  
"wakeDistance": "150",  
"wifiSsid": "",  
"wifiPwd": "",  
"temperatureDetect": "",  
"feverTemperature": "",  
"noAccessToFevers": "",  
"showThermalScreen": "",  
"indoorTemperature": "",  
"temperatureDetectDistance": "",  
"quickDetectMode": "",  
"maskDetect": "",  
"noAccessWithoutMask": "",  
"accessControlStatus": "",  
"accessControlTimetable": "",  
"timetableUpdTs": ""  
}  
],  
"size": 10,  
"total": 1,  
"code": "0000",  
"msg": "success"  
}
```

### 3.5.3 Query BI Device Configuration by Device ID

<b>API Endpoint</b>	{{studio_base_url}}/DEVICE/biDeviceInfo/getBIDeviceConfig			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	deviceUuid	Yes	String	Device unique ID
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data	Yes	BIDeviceConfig	
<b>BIDeviceConfig</b>	deviceUuid		String	Device unique ID
	serverVerify		String	Backend recognition 0: off; 1: on; 2: compatible
	serverAddress		String	Recognition server address
	ntpServerAddress		String	NTP server address
	otherServer		String	Third-party service configuration true: on; false: off
	otherServerAddress		String	Third-party upload address
	networkRelayAddress		String	Network relay address
	faceUpdateThreshold		String	Face alignment threshold
	yaw		String	Acceptable yaw degree
	pitch		String	Acceptable pitch degree
	roll		String	Acceptable roll degree
	faceWidth		String	Face width (pixel)
	wakeUpDistance		String	Device awake distance (cm)
	recognitionDistance		String	Recognition distance (m)

	liveness	String	Liveness detection true: on; false: off
	livenessThreshold	String	Liveness detection threshold
	verifyThreshold	String	FR match threshold
	logo	String	Logo display (true/false)
	videoTip	String	Video message
	welcomeTip	String	Welcome message
	showName	String	Name display (true/false)
	showAvatarType	String	Avatar type display
	verifyFaultRoleTip	String	Role tag display when face not recognized
	livenessSuccessRoleTip	String	Role tag display when liveness detection success
	livenessSuccessTip	String	Message display when liveness detection success
	verifySuccessTip	String	Message display when recognition success
	verifyFaultTip	String	Message display when face not recognized
	useShowAvatar	String	[SensePassPro] Person avatar display (true/false)
	showUserName	String	[SensePassPro] Name display (true/false)
	showUserInfo	String	[SensePass] User info display when recognition success 0: false; 1: true

			1 <sup>st</sup> digit – Job number 2 <sup>nd</sup> digit – Department 3 <sup>rd</sup> digit – Position 4 <sup>th</sup> digit – ID number 5 <sup>th</sup> digit – Custom message E.g. "01000" means show department only
	autoLed	String	Auto fill light true: on; false: off
	fillLight	String	[SensePassPro] Auto fill light true: on; false: off
	forcedOpenUpload	String	Forced open gate true: on; false: off
	dismantleUpload	String	Tamper alarm true: on; false: off
	guestNotification	String	Welcome notice true: on; false: off
	voice	String	Voice cast true: on; false: off
	voiceBroadcast	String	[SensePassPro] Voice cast true: on; false: off
	infraredProbe	String	Infrared sensor true: on; false: off
	startTime	String	Start time (Unix timestamp)
	endTime	String	End time (Unix timestamp)
	buzzerStatus	String	[SensePass] Buzzer status true: on; false: off
	gpioA	String	GPIO A output

	gpioB		String	GPIO B input
	gpioC		String	GPIO C input
	openDoorTime		String	Gate open delay time (s)
	openInterval		String	Gate open interval
	keepDoorOpenDuration		String	Gate open duration (s)
	wiganInput		String	Wiegand input 1: N.A. 2: Wiegand26(8+16bit ID) 3: Wiegand26(24bit ID) 4: Wiegand32 5: Wiegand34
	openDoorType		String	Open mode 0: Local relay 1: Wiegand26(8+16bit ID) 2: Wiegand32 3: Wiegand34 4: Network relay 5: Wiegand26(24bit ID) 8: Bluetooth
	standbyOpen		String	Standby switch true: on; false: off
	faceNum		String	Capture face number
	noActionThreshold		String	Repeated times when no respond
	noMatchThreshold		String	Repeated times when unmatched
	configDefaultFlag		String	[SensePass] Reset to default settings (true/false)

	deviceRunType	String	[SensePass] Device state 1: Running 2: Stopped
	autoReboot	String	[SensePass] Auto reboot true: on; false: off
	rebootTime	String	[SensePass] Device reboot time HH:mm:ss
	waitTime	String	Standby time (min)
	simplifyModel	String	Lite mode true: on; false: off
	adminPwd	String	Admin password
	dormancyType	String	Sleep mode 0: Sleep 1: Multimedia
	languageType	String	[SensePass] Display language 1: Chinese 2: English
	useMode	String	[SensePass] Device mode 1: Gate control 2: Door security
	proUseMode	String	[SensePassPro] Device mode 3: Single-person 4: Multi-person
	mode	String	Verification mode
	deviceProductTypeUuid	String	Product type uuid
	deviceTypeUuid	String	Device type uuid
	blackListTip	String	Blacklist message
	blackListOpen	String	Gate open for blacklist true: on; false: off
	deviceRebootTime	String	Device reboot time

	bluetoothMac	String	Bluetooth MAC address
	changeServerUrl	String	Change server URL
	deviceButtonName1	String	Name of custom button 1
	deviceButtonValue1	String	Value of custom button 1
	deviceButtonName2	String	Name of custom button 2
	deviceButtonValue2	String	Value of custom button 2
	deviceButtonName3	String	Name of custom button 3
	deviceButtonValue3	String	Value of custom button 3
	deviceButtonName4	String	Name of custom button 4
	deviceButtonValue4	String	Value of custom button 4
	deviceButtonName5	String	Name of custom button 5
	deviceButtonValue5	String	Value of custom button 5
	deviceButtonName6	String	Name of custom button 6
	deviceButtonValue6	String	Value of custom button 6
	certificateThreshold	String	Certification match threshold
	strongHint	String	Strong prompt true: on; false: off
	saveElecMode	String	Power saving mode true: on; false: off
	touchRecognition	String	Touch recognition true: on; false: off
	touchRecognitionCustomPicture	String	Touch recognition custom picture

	touchRecognitionReturnTime	String	Touch recognition return time
	touchRecognitionTimeout	String	Touch recognition timeout
	doorSensorTimeout	String	Door sensor timeout time
	wakeDistance	String	Wakeup distance detection
	wifiSsid	String	WIFI SSID
	wifiPwd	String	WIFI password
	temperatureDetect	String	Temperature detection true: on; false: off
	feverTemperature	String	Temperature detection threshold (°C)
	noAccessToFavers	String	No admittance with fever true: on; false: off
	showThermalScreen	String	Thermograph display true: on; false: off
	indoorTemperature	String	Indoor temperature (°C)
	temperatureDetectDistance	String	Temperature detection distance (m)
	quickDetectMode	String	Fast temperature detection mode true: on; false: off
	maskDetect	String	Mask detection true: on; false: off
	noAccessWithoutMask	String	No admittance without mask true: on; false: off
	accessControlStatus	String	Access control status

	accessControlTimetable		String	Access control timetable
	timetableUpdTs		String	Timetable last updated time
<b>Sample Request</b>	<pre>{     "deviceUuid": "1257915401329709058" }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": {         "deviceUuid": "1257915401329709058",         "serverVerify": "0",         "serverAddress": "127.0.0.1",         "ntpServerAddress": "127.0.0.1",         "otherServer": "true",         "otherServerAddress": "127.0.0.1",         "networkRelayAddress": "127.0.0.1",         "faceUpdateThreshold": "0",         "yaw": "18",         "pitch": "18",         "roll": "18",         "faceWidth": "60",         "wakeUpDistance": "6",         "recognitionDistance": "1.5",         "liveness": "true",         "livenessThreshold": "0.98",         "verifyThreshold": "0.9",         "logo": "true",         "videoTip": "video message",         "welcomeTip": "",         "showName": "true",         "showAvatarType": "1",         "verifyFaultRoleTip": "failed role tag",         "livenessSuccessRoleTip": "role",         "livenessSuccessTip": "success",         "verifySuccessTip": "",         "verifyFaultTip": ""     } }</pre>			

```
"useShowAvatar": "true",
"showUserName": "true",
"showUserInfo": "00000",
"autoLed": "true",
"fillLight": "true",
"forcedOpenUpload": "false",
"dismantleUpload": "false",
"guestNotification": "false",
"voice": "true",
"voiceBroadcast": "true",
"infraredProbe": "true",
"startTime": "1545647713",
"endTime": "1545687713",
"buzzerStatus": "true",
"gpioA": "1",
"gpioB": "1",
"gpioC": "1",
"openDoorTime": "5",
"openInterval": "5",
"keepDoorOpenDuration": "6",
"wiganInput": "1",
"openDoorType": "0",
"standbyOpen": "true",
"faceNum": "1",
"noActionThreshold": "10",
"noMatchThreshold": "3",
"configDefaultFlag": "false",
"deviceRunType": "1",
"autoReboot": "true",
"rebootTime": "02:00:00",
"waitTime": "5",
"simplifyModel": "false",
"adminPwd": "admin",
"dormancyType": "0",
"languageType": "2",
"useMode": "2",
"proUseMode": "2",
"mode": "9",
```

```
"deviceProductTypeUuid": "13",
"deviceTypeUuid": "15",
"blackListTip": "",
"blackListOpen": "false",
"deviceRebootTime": "",
"bluetoothMac": "",
"changeServerUrl": "",
"deviceButtonName1": "",
"deviceButtonValue1": "",
"deviceButtonName2": "",
"deviceButtonValue2": "",
"deviceButtonName3": "",
"deviceButtonValue3": "",
"deviceButtonName4": "",
"deviceButtonValue4": "",
"deviceButtonName5": "",
"deviceButtonValue5": "",
"deviceButtonName6": "",
"deviceButtonValue6": "",
"certificateThreshold": "0.6",
"strongHint": "false",
"saveElecMode": "false",
"touchRecognition": "false",
"touchRecognitionCustomPicture": "",
"touchRecognitionReturnTime": "5",
"touchRecognitionTimeout": "5",
"doorSensorTimeout": "3",
"wakeDistance": "150",
"wifiSsid": "",
"wifiPwd": "",
"temperatureDetect": "",
"feverTemperature": "34.5",
"noAccessToFever": "",
"showThermalScreen": "",
"indoorTemperature": "5",
"temperatureDetectDistance": "1",
"quickDetectMode": "",
"maskDetect": "",
```

```

        "noAccessWithoutMask": "",  

        "accessControlStatus": "",  

        "accessControlTimetable": "",  

        "timetableUpdTs": ""  

    },  

    "success": true  

}

```

### 3.5.4 Delete BI Device Configuration

<b>API Endpoint</b>	{{studio_base_url}}/DEVICE/biDeviceInfo/deleteBIDeviceConfig			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	deviceUuid	Yes	String	Device unique ID
<b>Response Parameters</b>	operatePerson	Yes	String	Operator
	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
<b>Sample Request</b>	<pre>{     "deviceUuid": "1257915401329709058",     "operatePerson": "1" }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": null,     "success": true }</pre>			

## 4 Map API

### 4.1 Map API Return Code

Return Code	Return Code Description	Possible Causes	Solution Suggestion
0000	Success		
05001000	EXISTED MAP	Duplicate map	Check and modify input parameter
05001001	EXISTED POI	Duplicate POI	Check and modify input parameter
05001002	EXISTED ZONE	Duplicate zone	Check and modify input parameter
05001003	EXISTED MAPPING	Duplicate zone-policy mapping	Check and modify input parameter
05001004	EXISTED SPACE	Duplicate space	Check and modify input parameter
05001020	NOT FOUND MAP	Map record not found	Check DB and map service Check if input parameters are valid
05001021	NOT FOUND POI	POI record not found	Check DB and map service Check if input parameters are valid
05001022	NOT FOUND ZONE	Zone record not found	Check DB and map service Check if input parameters are valid
05001023	NOT FOUND MAPPING	Zone-policy mapping record not found	Check DB and map service Check if input parameters are valid
05001024	NOT FOUND SPACE	Space record not found	Check DB and map service Check if input parameters are valid
05001040	CREATE MAP FAILED	Create map failed	
05001041	CREATE POI FAILED	Create POI failed	
05001042	CREATE ZONE FAILED	Create zone failed	
05001043	CREATE MAPPING FAILED	Create zone-policy mapping failed	
05001044	CREATE SPACE FAILED	Create space failed	
05001060	UPDATE MAP FAILED	Update map failed	Check DB and map service Check if input parameters are valid
05001061	UPDATE POI FAILED	Update POI Failed	Check DB, Map service, and input data for specifications
05001062	UPDATE ZONE FAILED	Update zone failed	Check DB and map service Check if input parameters are valid
05001063	UPDATE MAPPING FAILED	Update zone-policy mapping failed	Check DB and map service Check if input parameters are valid

05001064	UPDATE SPACE FAILED	Update space failed	Check DB and map service Check if input parameters are valid
05001080	REMOVE MAP FAILED	Delete map failed	
05001081	REMOVE POI FAILED	Delete POI failed	
05001082	REMOVE ZONE FAILED	Delete zone failed	
05001083	REMOVE MAPPING FAILED	Delete zone-policy mapping failed	
05001084	REMOVE SPACE FAILED	Delete space failed	
05002041	NOT FOUND REFER DEVICE	Associated device not found	Check DB and map service Check if input parameters are valid
05005001	FAILED TO ADD DEVICE TO CONTROL POLICY	Service failed: Add devices to control policy	
05005002	FAILED TO REMOVE DEVICE FROM CONTROL POLICY	Service failed: Remove devices from control policy	
05005003	FAILED TO ADD DEVICE TO MONITOR POLICY	Service failed: Add devices to monitor policy	
05005004	FAILED TO REMOVE DEVICE FROM MONITOR POLICY	Service failed: Remove devices from monitor policy	

## 4.2 Map Management

### 4.2.1 Create Map

API Endpoint	{{studio_base_url}}/MAP/plat/create			
Method	POST			
Request Format	JSON			
Request Parameters	Name	Required	Type	Description
	platImageUri	Yes	String	Map image URI
	platName	Yes	String	Map name
	operatePerson	Yes	String	Operator
	desc	No	String	Map description

Response Parameters	Name	Required	Type	Description
	data	Yes	String	Map unique ID, generated by the system, be used to uniquely identify the map
Sample Request	<pre>{     "platImageUri": "/images/map/20200325/92/2aa44cb058513beaa98b7f74f50acec0.png",     "platName": "Lobby",     "operatePerson": "1",     "desc": "description" }</pre>			
Sample Response	<pre>{     "code": "0000",     "msg": "成功",     "data": "1272469949952036866",     "success": true }</pre>			

#### 4.2.2 Deactivate Map

API Endpoint	{{studio_base_url}}/MAP/plat/deactivate			
Method	POST			
Request Format	JSON			
Request Parameters	Name	Required	Type	Description
	id	Yes	String	Map unique ID
Response Parameters	Name	Required	Type	Description
	data	No	String	null
Sample Request	<pre>{     "id": "1272469949952036866",     "operatePerson": "1" }</pre>			
Sample Response	<pre>{     "code": "0000",     "msg": "成功",     "data": null,     "success": true }</pre>			

#### 4.2.3 Update Map

<b>API Endpoint</b>	{{studio_base_url}}/MAP/plat/update			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	platId	Yes	String	Map unique ID
	operatePerson	Yes	String	Operator
	platImageUri	No	String	Map image URI
	platName	No	String	Map name
<b>Response Parameters</b>	Name	Required	Type	Description
	data	No	String	null
<b>Sample Request</b>	<pre>{     "platId": "1242647565707513858",     "operatePerson": "1",     "platName": "Lobby",     "platImage":     "/images/map/20200325/92/2aa44cb058513beaa98b7f74f50acec0.png",     "desc": "test" }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": null,     "success": true }</pre>			

#### 4.2.4 Query Map Information by Map ID

<b>API Endpoint</b>	{{studio_base_url}}/MAP/plat/info			
<b>Method</b>	GET			
<b>Request Parameters</b>	Name	Required	Type	Description
	platId	Yes	String	Map unique ID
<b>Response Parameters</b>	Name	Required	Type	Description
	data		MapInfo	
	platId		String	Map unique ID
	platName		String	Map name

	platImage		String	Map image URI
	desc		String	Map description
	sts		String	Map status 9: Effective 3: Deleted
Sample Request	{{API Endpoint}}?platId=1265894461687205889			
Sample Response	<pre>{     "code": "0000",     "msg": "成功",     "data": {         "platId": "1265894461687205889",         "platName": "Lobby",         "platImage":             "/images/map/20200528/198/2f3c39d28ac6184a9bdf8cb5a9c78543.jpg",         "desc": "lobby map",         "sts": "9"     },     "success": true }</pre>			

#### 4.2.5 List Map (Pagination)

API Endpoint	{{studio_base_url}}/MAP/plat/info			
Method	POST			
Request Format	JSON			
Request Parameters	Name	Required	Type	Description
	current	Yes	Integer	Query results on page #. Start from 1.
	size	Yes	Integer	Number of results per page
	platId	No	String	Map unique ID
	platName	No	String	Map name
	desc	No	String	Map description
Response Parameters	Name	Required	Type	Description
	data	No	String	null

<b>Sample Request</b>	<pre>{     "current": 1,     "size": 10,     "platId": "",     "platName": "",     "desc": "",     "sts": "" }</pre>
<b>Sample Response</b>	<pre>{     "data": [         {             "platId": "1242647565707513858",             "platName": "Factory",             "platImage": "/images/map/20200325/92/2aa44cb058513beaa98b7f74f50acec0.png",             "desc": "factory map",             "sts": "9",             "plotMode": "3"         },         {             "platId": "1265894461687205889",             "platName": "Lobby",             "platImage": "/images/map/20200528/198/2f3c39d28ac6184a9bdf8cb5a9c78543.jpg",             "desc": "lobby map",             "sts": "9",             "plotMode": "1"         }     ],     "size": 10,     "total": 2,     "code": "0000",     "msg": "success" }</pre>

## 4.3 Point Management

### 4.3.1 Create Point

API Endpoint	{{studio_base_url}}/MAP/poi/create
--------------	------------------------------------

<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	platId	Yes	String	Map unique ID
	operatePerson	Yes	String	Operator
<b>Poi</b>	poiList	Yes	Poi	
	poiName	Yes	String	Device name
	poiType	Yes	String	Point type, 0: Device
	poiDef	Yes	Array[Double]	Point coordinates
<b>Response Parameters</b>	referId	Yes	String	Device unique ID
	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data	Yes	Array[String]	Point unique ID, generated by the system, be used to uniquely identify the point
<b>Sample Request</b>	<pre>{     "platId": "1242647565707513858",     "operatePerson": "9",     "poiList": [         {             "poiName": "SPS020STDC19G07718",             "poiType": "0",             "poiDef": [                 261.5,                 295.3             ],             "referId": "1257915401329709058"         }     ] }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": [         "1272731631341277185"     ],     "success": true }</pre>			

#### 4.3.2 Deactivate Point

<b>API Endpoint</b>	{{studio_base_url}}/MAP/poi/deactivate			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	id	Yes	String	Point unique ID
	operatePerson	Yes	String	Operator
<b>Response Parameters</b>	Name	Required	Type	Description
	data	No	String	null
<b>Sample Request</b>	<pre>{     "id": "1272731631341277185",     "operatePerson": "9" }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": null,     "success": true }</pre>			

#### 4.3.3 Update Point

<b>API Endpoint</b>	{{studio_base_url}}/MAP/poi/update			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	poiid	Yes	String	Point unique ID
	operatePerson	Yes	String	Operator
	poiName	No	String	Device name
	poiType	No	String	Point type, 0: Device
	poiDef	No	Array[Double]	Point coordinates
	referId	No	String	Device unique ID
	platId	No	String	Map unique ID
<b>Response Parameters</b>	Name	Required	Type	Description
	data		String	null

<b>Sample Request</b>	<pre>{     "poilid": "1272732642495696898",     "operatePerson": "9",     "poiName": "SPS020STDC19G07718",     "poiType": "0",     "poiDef": [         261.5,         295.3     ],     "referId": "1257915401329709058",     "platId": "1242647565707513858",     "desc": "" }</pre>
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": null,     "success": true }</pre>

#### 4.3.4 List Point (Pagination)

<b>API Endpoint</b>	{{studio_base_url}}/MAP/poi/baseList			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	current	Yes	Integer	Query results on page #. Start from 1.
	size	Yes	Integer	Number of results per page
	poiName	No	String	Device name
	poiType	No	String	Point type, 0: Device
	referId	No	String	Device unique ID
	platId	No	String	Map unique ID
	desc	No	String	Point description
<b>Response Parameters</b>	Name	Required	Type	Description
	data		Array[Poi]	

<b>Poi</b>	poilid		String	Point unique ID
	poiName		String	Point name
	poiType		String	Point type, 0: Device
	poiDef		Array[Double]	Point coordinates
	referId		String	Device unique ID
	platId		String	Map unique ID
	desc		String	Point description
	sts		String	Point status 9: Effective, 3: Deleted
<b>Sample Request</b>	{ "current": 1, "size": 2, "poiName": "", "poiType": "", "referId": "", "platId": "", "desc": "", "sts": "" }			
<b>Sample Response</b>	{ "data": [ { "poilid": "1242648248003334145", "poiName": "Lobby-Entrance", "poiType": "0", "poiDef": [ 263.0323944091797, 458.0300922393799 ], "referId": "1242646289435332610", "platId": "1242647565707513858", "desc": "", "sts": "9" }, { "poilid": "1242699898059493377", "poiName": "002", "poiType": "0", "poiDef": [ 263.0323944091797, 458.0300922393799 ] } ] }			

```

    "poiDef": [
        776.5,
        198.33333206176758
    ],
    "referId": "1242699162579898369",
    "platId": "1242647565707513858",
    "desc": "",
    "sts": "9"
}
],
"size": 2,
"total": 5,
"code": "0000",
"msg": "success"
}

```

#### 4.3.5 Query Point Information by Point ID

<b>API Endpoint</b>	{{studio_base_url}}/MAP/poi/baseList			
<b>Method</b>	GET			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	poiid	Yes	String	Point ID
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		Array[Poi]	
<b>Poi</b>	poiid		String	Point unique ID
	poiName		String	Point name
	poiType		String	Point type, 0: Device
	poiDef		Array[Double]	Point coordinates
	referId		String	Device unique ID
	platId		String	Map unique ID
	desc		String	Point description
	sts		String	Point status 9: Effective, 3: Deleted
<b>Sample Request</b>	{{API Endpoint}}?poiid=1242648248003334145			
<b>Sample Response</b>	{     "code": "0000",     "msg": "成功", }			

```

"data": {
    "platId": "1242647565707513858",
    "poilid": "1242648248003334145",
    "poiName": "Lobby-Entrance",
    "poiType": "0",
    "poiDef": [
        263.0323944091797,
        458.0300922393799
    ],
    "referId": "1242646289435332610",
    "desc": "",
    "sts": "9"
},
"success": true
}

```

#### 4.3.6 Query Point Information by Zone ID

<b>API Endpoint</b>	{{studio_base_url}}/MAP/poi/getPoisFromZone			
<b>Method</b>	GET			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	zonelid	Yes	String	Zone unique ID
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		Array[Poi]	
<b>Poi</b>	poilid		String	Point unique ID
	poiName		String	Point name
	poiType		String	Point type, 0: Device
	poiDef		Array[Double]	Point coordinates
	referId		String	Device unique ID
	platId		String	Map unique ID
	desc		String	Point description
	sts		String	Point status 9: Effective, 3: Deleted
<b>Sample Request</b>	{{API Endpoint}}?zonelid=1242648564283215874&poiType=0			
<b>Sample Response</b>	{     "code": "0000", }			

```

    "msg": "成功",
    "data": [
        {
            "poiId": "1244456901572300802",
            "poiName": "SenseThunder-E_1",
            "poiType": "0",
            "poiDef": [
                171.5,
                419.0
            ],
            "referId": "1243403012861333506",
            "platId": "1242647565707513858",
            "desc": "",
            "sts": "9"
        }
    ],
    "success": true
}

```

#### 4.3.7 Deactivate Point by Device ID

<b>API Endpoint</b>	{{studio_base_url}}/MAP/poi/deactiveFromDevice			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	deviceIds	Yes	Array[String]	Device unique ID
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		Array[String]	Point unique ID
<b>Sample Request</b>	<pre>{     "deviceIds": [         "1257915401329709058"     ],     "operatePerson": "9" }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功", }</pre>			

	<pre> "data": [     "1272731289790713858",     "1272731631341277185",     "1272732642495696898",     "1272734798300844034" ], "success": true } </pre>
--	--

#### 4.3.8 Check Device Deployment Status

<b>API Endpoint</b>	{{studio_base_url}}/MAP/poi/deviceDeployList			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters (in JSON array)</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	deviceIds	Yes	String	Device unique ID
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		Array[DeploySts]	
<b>DeploySts</b>	did		String	Device unique ID
	deployMode		String	Deployment status 0: Device not yet plotted on map 1: Device plotted on map
<b>Sample Request</b>	<pre>[     "1243403012861333506",     "1272444628489998337",     "1265185833686667266" ]</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": [         {             "did": "1243403012861333506",             "deployMode": "1"         },         {             "did": "1272444628489998337",             "deployMode": "0"         }     ] }</pre>			

	<pre>{     "did": "1265185833686667266",     "deployMode": "0" } ], "success": true }</pre>
--	---

#### 4.3.1 Query Deployment Information by Device ID

<b>API Endpoint</b>	{{studio_base_url}}/MAP/poi/deviceDeployDetail			
<b>Method</b>	GET			
<b>Request Parameters (in JSON array)</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	deviceId	Yes	String	Device unique ID
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		Deployment	
<b>Deployment</b>	platId		String	Map unique ID
	platName		String	Map name
	platImage		String	Map image URI
	platSts		String	Map status 9: Effective, 3: Deleted
	poiid		String	Point unique ID
	poiName		String	Point name
	poiDef		Array[Double]	Point coordinates
	poiSts		String	Point status 9: Effective, 3: Deleted
<b>Sample Request</b>	{{API Endpoint}}?deviceId=1243403012861333506			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": {         "platId": "1242647565707513858",         "platName": "lobby",         "platImage":         "/images/map/20200325/92/2aa44cb058513beaa98b7f74f50acec0.png",     } }</pre>			

	<pre> "platSts": "9", "poild": "1244456901572300802", "poiName": "SenseThunder-E_1", "poiDef": "[171.5,419.0]", "poiSts": "9" }, "success": true } </pre>
--	---

## 4.4 Zone Management

### 4.4.1 Create Zone

<b>API Endpoint</b>	{{studio_base_url}}/MAP/zone/create			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	platId	Yes	String	Map unique ID
	operatePerson	Yes	String	Operator
	zoneList	Yes	Array[Zone]	
<b>Zone</b>	zoneName	Yes	String	Zone name
	zoneClass	Yes	String	Shape of zone 0: Rectangle, 1: Circle, 2: Polygon
	zoneType	Yes	String	Zone type 0: Monitoring, 1: Others
	zoneDef	Yes	Array[Double]	Zone coordinates
	desc	No	String	Zone description
<b>Response Parameters</b>	Name	Required	Type	Description
	data		Array[String]	Zone unique ID, generated by the system, be used to uniquely identify the zone
<b>Sample Request</b>	<pre> {     "platId": "1219168985287757826",     "operatePerson": "9",     "zoneList": [         {             "zoneName": "corridor",             "zoneClass": "2",             "zoneType": "0", </pre>			

	<pre> "zoneDef": [     [         [             1567.0104064941406,             938.1840209960938         ],         [             [                 1956.0104064941406,                 873.1840209960938             ],             [                 [                     1832.0104064941406,                     1158.1840209960938                 ],                 [                     [                         1567.0104064941406,                         938.1840209960938                     ]                 ],                 [                     "desc": ""                 ]             ]         ]     ] } </pre>
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": [         "1272768702135144449"     ],     "success": true }</pre>

#### 4.4.2 Deactivate Zone

<b>API Endpoint</b>	{{studio_base_url}}/MAP/zone/deactivate			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	id	Yes	String	Zone unique ID

	operatePerson	Yes	String	Operator
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		String	null
<b>Sample Request</b>	{ "id": "1272768702135144449", "operatePerson": "9" }			
<b>Sample Response</b>	{ "code": "0000", "msg": "成功", "data": null, "success": true }			

#### 4.4.3 Update Zone

<b>API Endpoint</b>	{{studio_base_url}}/MAP/zone/update			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	platId	Yes	String	Map unique ID
	operatePerson	Yes	String	Operator
	zoneList	Yes	Array[Zone]	
<b>Zone</b>	zoneName	Yes	String	Zone name
	zoneClass	Yes	String	Shape of zone 0: Rectangle, 1: Circle, 2: Polygon
	zoneType	Yes	String	Zone type 0: Monitoring, 1: Others
	zoneDef	Yes	Array[Double]	Zone coordinates
	desc	No	String	Zone description
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		String	null
<b>Sample Request</b>	{ "zonelId": "1242648468460146690", "operatePerson": "9", "platId": "1242647565707513858", "zoneName": "corridor", }			

	<pre>"zoneClass": "2", "zoneType": "0", "zoneDef": [   [     229.0323944091797,     211.4745330810547   ],   [     229.0323944091797,     353.4745330810547   ],   [     301.0323944091797,     354.4745330810547   ],   [     523.5,     288.6666564941406   ],   [     302.0323944091797,     210.4745330810547   ],   [     229.0323944091797,     211.4745330810547   ] ], "desc": "" }</pre>
<b>Sample Response</b>	{ "code": "0000", "msg": "成功", "data": null, "success": true }

#### 4.4.4 List Zone (Pagination)

<b>API Endpoint</b>	{{studio_base_url}}/MAP/zone/baseList			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	current	Yes	Integer	Query results on page #. Start from 1.
	size	Yes	Integer	Number of results per page
	platId	No	String	Map unique ID
	zoneName	No	String	Zone name
	zoneClass	No	String	Shape of zone 0: Rectangle, 1: Circle, 2: Polygon
	zoneType	No	String	Zone type 0: Monitoring, 1: Others
	zoneDef	No	Array[Double]	Zone coordinates
	desc	No	String	Zone description
<b>Response Parameters</b>	Name	Required	Type	Description
	data		Array[Zone]	null
	platId		String	Map unique ID
	zonelId		String	Zone unique ID
	zoneName		String	Zone name
	zoneClass		String	Shape of zone 0: Rectangle, 1: Circle, 2: Polygon
	zoneType		String	Zone type 0: Monitoring, 1: Others
	zoneDef		Array[Double]	Zone coordinates
	desc		String	Zone description
<b>Sample Request</b>	{ "current": 1, "size": 2 }			
	{ "data": [ 			
<b>Sample Response</b>	{ "data": [ 			

```
{  
    "platId": "1242647565707513858",  
    "zonId": "1242648468460146690",  
    "zoneName": "corridor",  
    "zoneClass": "2",  
    "zoneType": "0",  
    "zoneDef": [  
        [  
            [229.0323944091797,  
             211.4745330810547  
            ],  
            [  
                [229.0323944091797,  
                 353.4745330810547  
                ],  
                [  
                    [301.0323944091797,  
                     354.4745330810547  
                    ],  
                    [  
                        [523.5,  
                         288.6666564941406  
                        ],  
                        [  
                            [302.0323944091797,  
                             210.4745330810547  
                            ],  
                            [  
                                [229.0323944091797,  
                                 211.4745330810547  
                                ]  
                            ],  
                            "desc": "",  
                            "sts": "9"  
                        ],  
                        {  
                            "platId": "1242647565707513858",  
                            "zonId": "1242648564283215874",  
                        }  
                    ]  
    ]  
}
```

```
"zoneName": "entrance",
"zoneClass": "2",
"zoneType": "0",
"zoneDef": [
    [
        [
            112.03239440917969,
            382.43981170654297
        ],
        [
            [
                113.03239440917969,
                470.43981170654297
            ],
            [
                [
                    223.0323944091797,
                    453.43981170654297
                ],
                [
                    [
                        224.0323944091797,
                        375.43981170654297
                    ],
                    [
                        [
                            112.03239440917969,
                            382.43981170654297
                        ]
                    ],
                    [
                        "desc": "",
                        "sts": "9"
                    ]
                ],
                "size": 2,
                "total": 6,
                "code": "0000",
                "msg": "success"
            ]
        ]
    ]
},
```

#### 4.4.5 Query Zone Information by Zone ID

API Endpoint	<code>{{studio_base_url}}/MAP/zone/baseInfo</code>
Method	GET

Request Parameters	Name	Required	Type	Description
	zonId	Yes	String	Zone unique ID
Response Parameters	Name	Required	Type	Description
<b>Zone</b>	data		Zone	
	platId		String	Map unique ID
	platName		String	Map name
	zonId		String	Zone unique ID
	zoneName		String	Zone name
	zoneClass		String	Shape of zone 0: Rectangle, 1: Circle, 2: Polygon
	zoneType		String	Zone type 0: Monitoring, 1: Others
	zoneDef		Array[Double]	Zone coordinates
	desc		String	Zone description
<b>Sample Request</b>	sts		String	Zone status 9: Effective, 3: Deleted
	{API Endpoint}?zonId=1242648468460146690			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": {         "platId": "1242647565707513858",         "platName": null,         "zonId": "1242648468460146690",         "zoneName": "corridor",         "zoneClass": "2",         "zoneType": "0",         "zoneDef": [             [                 229.0323944091797,                 211.4745330810547             ],             [                 229.0323944091797,                 353.4745330810547             ],             [                 229.0323944091797,                 353.4745330810547             ],             [                 229.0323944091797,                 211.4745330810547             ]         ]     } }</pre>			

```
[
    301.0323944091797,
    354.4745330810547
],
[
    523.5,
    288.6666564941406
],
[
    302.0323944091797,
    210.4745330810547
],
[
    229.0323944091797,
    211.4745330810547
]
],
{
    "desc": "",
    "sts": "9"
},
{
    "success": true
}
```

#### 4.4.6 Query Zone Information by Point ID

<b>API Endpoint</b>	{{studio_base_url}}/MAP/zone/getZonesFromPoi			
<b>Method</b>	GET			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	poild	Yes	String	Point unique ID
	zoneType	Yes	String	Zone type 0: Monitoring, 1: Others
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		Array[Zone]	
<b>Zone</b>	platId		String	Map unique ID
	zonelId		String	Zone unique ID
	zoneName		String	Zone name
	zoneClass		String	Shape of zone 0: Rectangle, 1: Circle, 2: Polygon

	zoneType		String	Zone type 0: Monitoring, 1: Others
	zoneDef		Array[Double]	Zone coordinates
	desc		String	Zone description
	sts		String	Zone status 9: Effective, 3: Deleted
<b>Sample Request</b>	{{API Endpoint}}?poId=1244456901572300802&zoneType=0			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": [         {             "platId": "1242647565707513858",             "zonId": "1242648564283215874",             "zoneName": "entrance",             "zoneClass": "2",             "zoneType": "0",             "zoneDef": [                 [                     112.03239440917969,                     382.43981170654297                 ],                 [                     113.03239440917969,                     470.43981170654297                 ],                 [                     223.0323944091797,                     453.43981170654297                 ],                 [                     224.0323944091797,                     375.43981170654297                 ],                 [                     112.03239440917969,                     382.43981170654297                 ]             ]         }     ] }</pre>			

	<pre>         ],         "desc": "",         "sts": "9"     } ], "success": true } </pre>
--	---

#### 4.4.7 Query Zone Information by Map ID

<b>API Endpoint</b>	{{studio_base_url}}/MAP/zone/getZonesFromPlat			
<b>Method</b>	GET			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	platId	Yes	String	Map unique ID
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		Array[Zone]	
<b>Zone</b>	platId		String	Map unique ID
	zonId		String	Zone unique ID
	zoneName		String	Zone name
	zoneClass		String	Shape of zone 0: Rectangle, 1: Circle, 2: Polygon
	zoneType		String	Zone type 0: Monitoring, 1: Others
	zoneDef		Array[Double]	Zone coordinates
	desc		String	Zone description
	sts		String	Zone status 9: Effective, 3: Deleted
<b>Sample Request</b>	{{API Endpoint}}?platId=1242647565707513858			
<b>Sample Response</b>	<pre> {     "code": "0000",     "msg": "成功",     "data": [         {             "platId": "1242647565707513858",             "zonId": "1242648468460146690",             "zoneName": "corridor", </pre>			

```
"zoneClass": "2",
"zoneType": "0",
"zoneDef": [
    [
        [
            229.0323944091797,
            211.4745330810547
        ],
        [
            229.0323944091797,
            353.4745330810547
        ],
        [
            301.0323944091797,
            354.4745330810547
        ],
        [
            523.5,
            288.6666564941406
        ],
        [
            302.0323944091797,
            210.4745330810547
        ],
        [
            229.0323944091797,
            211.4745330810547
        ]
    ],
    "desc": "",
    "sts": "9"
},
{
    "platId": "1242647565707513858",
    "zonId": "1242648564283215874",
    "zoneName": "entrance",
    "zoneClass": "2",
    "zoneType": "0",
    "zoneDef": [
```

```
[
    [
        112.03239440917969,
        382.43981170654297
    ],
    [
        [
            113.03239440917969,
            470.43981170654297
        ],
        [
            [
                223.0323944091797,
                453.43981170654297
            ],
            [
                [
                    224.0323944091797,
                    375.43981170654297
                ],
                [
                    [
                        112.03239440917969,
                        382.43981170654297
                    ]
                ],
                [
                    "desc": "",
                    "sts": "9"
                ]
            ],
            [
                "success": true
            ]
        ]
    ]
}
```

## 4.5 Space Management

### 4.5.1 Create Space

API Endpoint	{{studio_base_url}}/MAP/space/create			
Method	POST			
Request Format	JSON			
Request Parameters	Name	Required	Type	Description
	spaceName	Yes	String	Space name
	spaceParentId	Yes	String	Parent spaceId
	spaceOrder	Yes	Double	Ordering
	operatePerson	Yes	String	Operator

	platId	No	String	Map unique ID
	desc	No	String	Space description
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		String	Space unique ID, generated by the system, be used to uniquely identify the space
<b>Sample Request</b>	<pre>{     "spaceName": "office-3F",     "spaceParentId": "1242655482636668929",     "spaceOrder": 3,     "operatePerson": "9",     "platId": "1219168985287757826",     "desc": "" }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": "1272782943185539074",     "success": true }</pre>			

#### 4.5.2 Deactivate Space

<b>API Endpoint</b>	{{studio_base_url}}/MAP/space/deactivate			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	spaceIds	Yes	Array[String]	Space unique IDs
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		String	null
<b>Sample Request</b>	<pre>{     "spaceIds": [         "1272782943185539074"     ],     "operatePerson": "0" }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功", }</pre>			

	<pre>"data": null, "success": true }</pre>
--	--

#### 4.5.3 Update Space

<b>API Endpoint</b>	{{studio_base_url}}/MAP/space/update			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	spaceId	Yes	String	Space unique ID
	operatePerson	Yes	String	Operator
	spaceName	No	String	Space name
	spaceParentId	No	String	Parent spaceId
	spaceOrder	No	Double	Ordering
	platId	No	String	Map unique ID
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		String	null
<b>Sample Request</b>	<pre>{     "spaceId": "1272783890452320257",     "spaceName": "office-32F",     "spaceParentId": "1242655482636668929",     "spaceOrder": 3,     "operatePerson": "9",     "platId": "1219168985287757826",     "desc": "" }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": null,     "success": true }</pre>			

#### 4.5.4 List Space (Pagination)

<b>API Endpoint</b>	{{studio_base_url}}/MAP/space/list			
<b>Method</b>	POST			

<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	spaceId	No	String	Space unique ID
	spaceName	No	String	Space name
	spaceParentId	No	String	Parent spaceId
	desc	No	String	Space description
	sts	No	String	Space status 9: Effective, 3: Deleted
<b>Response Parameters</b>	Name	Required	Type	Description
	data		Array[Space]	null
<b>Space</b>	spaceId		String	Space unique ID
	spaceName		String	Space name
	spaceParentId		String	Parent spaceId
	spaceOrder		Double	Order
	platId		String	Map unique ID
	sts		String	Space status 9: Effective, 3: Deleted
<b>Sample Request</b>	<pre>{     "spaceId": "",     "spaceName": "",     "spaceParentId": "",     "desc": "",     "sts": "9" }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": [         {             "spaceId": "1242655482636668929",             "spaceName": "OFFICE",             "spaceParentId": "0",             "spaceOrder": 1.0,             "platId": "1242647565707513858",             "sts": "9"         },         {         }     ] }</pre>			

	<pre>     "spaceId": "1242655551188373505",     "spaceName": "Corridor",     "spaceParentId": "1242655482636668929",     "spaceOrder": 1.0,     "platId": "",     "sts": "9"  }, {     "spaceId": "1242655618620198913",     "spaceName": "entrance",     "spaceParentId": "1242655482636668929",     "spaceOrder": 2.0,     "platId": "",     "sts": "9" } ], "success": true } </pre>
--	---

#### 4.5.5 Query Space Information by Space ID

<b>API Endpoint</b>	{{studio_base_url}}/MAP/space/info			
<b>Method</b>	GET			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	spaceId	No	String	Space unique ID
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		Space	
<b>Space</b>	spaceName		String	Space name
	spaceParentId		String	Parent spaceId
	spaceOrder		Double	Order
	desc		String	Space description
	platId		String	Map unique ID
	sts		String	Space status 9: Effective, 3: Deleted
<b>Sample Request</b>	{{API Endpoint}}?spaceId=1242655482636668929			
<b>Sample Response</b>	<pre> {     "code": "0000",     "msg": "成功", } </pre>			

	<pre> "data": {     "spaceName": "OFFICE",     "spaceParentId": "0",     "spaceOrder": 1.0,     "desc": "",     "platId": "1242647565707513858",     "sts": "9" }, "success": true } </pre>
--	---

## 4.6 Zone-Policy Mapping Management

### 4.6.1 Update Zone-Policy Mapping

<b>API Endpoint</b>	{{studio_base_url}}/MAP/zonePolicyMapping/updateZoneAndPolicyMapping			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	policyId	Yes	String	Policy unique ID
	policyClass	Yes	String	Policy category 0: Monitor Policy, 1: Gate Control Policy
	policyType	Yes	String	Policy type
	operatePerson	Yes	String	Operator
	addZonelds	No	Array[String]	Zone unique IDs to add to the policy
	removeZonelds	No	Array[String]	Zone unique IDs to remove from the policy
<b>Response Parameters</b>	Name	Required	Type	Description
	data		String	null
<b>Sample Request</b>	<pre> {     "policyId": "1272724388222865409",     "policyClass": "0",     "policyType": "0",     "operatePerson": "9",     "addZonelds": [         "1242648564283215874"     ],     "removeZonelds": [] } </pre>			

<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": null,     "success": true }</pre>
------------------------	---

#### 4.6.2 Query Policy by Zone ID

<b>API Endpoint</b>	{{studio_base_url}}/MAP/zonePolicyMapping/getPoliciesFromZone			
<b>Method</b>	POST			
<b>Request Format</b>	form-data			
Request Parameters	Name	Required	Type	Description
	zonelid	Yes	String	Zone unique ID
Response Parameters	Name	Required	Type	Description
	data		Array[Policy]	
Policy	policyId		String	Policy unique ID
	policyClass		String	Policy category 0: Monitor Policy, 1: Gate Control Policy
	policyType		String	Policy type
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": [         {             "policyId": "1272724388222865409",             "policyClass": "0",             "policyType": "0"         }     ],     "success": true }</pre>			

#### 4.6.3 Query Zone by Policy ID

<b>API Endpoint</b>	{{studio_base_url}}/MAP/zonePolicyMapping/getZonesFromPolicy			
<b>Method</b>	GET			
Name	Required	Type	Description	

<b>Request Parameters</b>	policyId	Yes	String	Policy unique ID
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
<b>Zone</b>	data		Array[Zone]	
	platId		String	Map unique ID
	platName		String	Map name
	zonId		String	Zone unique ID
	zoneName		String	Zone name
	zoneClass		String	Shape of zone 0: Rectangle, 1: Circle, 2: Polygon
	zoneDef		String	Zone coordinates
	desc		String	Zone description
<b>Sample Request</b>	{{API Endpoint}}?policyId=1272724388222865409			
	<pre>{     "code": "0000",     "msg": "成功",     "data": [         {             "platId": "1242647565707513858",             "platName": "lobby",             "zonId": "1242648564283215874",             "zoneName": "entrance",             "zoneClass": "2",             "zoneType": "0",             "zoneDef": [                 [                     112.03239440917969,                     382.43981170654297                 ],                 [                     113.03239440917969,                     470.43981170654297                 ],                 [ </pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": [         {             "platId": "1242647565707513858",             "platName": "lobby",             "zonId": "1242648564283215874",             "zoneName": "entrance",             "zoneClass": "2",             "zoneType": "0",             "zoneDef": [                 [                     112.03239440917969,                     382.43981170654297                 ],                 [                     113.03239440917969,                     470.43981170654297                 ],                 [ </pre>			

	<pre>         223.0323944091797,         453.43981170654297     ],     [         224.0323944091797,         375.43981170654297     ],     [         112.03239440917969,         382.43981170654297     ] ], "desc": "", "sts": "9" } ], "success": true } </pre>
--	--

#### 4.6.4 Remove Zone-Policy Mapping

<b>API Endpoint</b>	{{studio_base_url}}/MAP/zonePolicyMapping/removeZoneAndPolicyMapping			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	policyIds	Yes	Array[String]	Policy unique ID
	zoneIds	No	Array[String]	Zone unique ID
	operatePerson	No	String	Operator
	policyClass	No	String	Policy category 0: Monitor Policy, 1: Gate Control Policy
	policyType	No	String	Policy type
<b>Response Parameters</b>	Name	Required	Type	Description
	data		String	null
<b>Sample Request</b>	<pre>{     "policyIds": [         "1272724388222865409"     ] }</pre>			

<b>Sample Response</b>	<pre>{\n    "code": "0000",\n    "msg": "成功",\n    "data": null,\n    "success": true\n}</pre>
------------------------	--

## 5 Gate Control Policy API

### 5.1 Gate Control Policy API Return Code

Return Code	Return Code Description
0000	Success
0001	Failed
03003000	The data has already existed
03003001	Data does not exist
03003002	the caller is associated with authorization
03003003	There is a relationship
03003004	policyId is Required
03003005	policyGroups is Required
03003006	policyDevices is Required
03003007	controlDuration of noshowpolicy is required
03003008	controlDurationOff/on of workshiftpolicy is required
03003009	policyActions is Required
03003010	File upload failure
03003011	Delete file failure
03003012	file does not exist
03003013	File format is incorrect
03003014	Failure to create gate control policy
03003015	The basis for generating special personnel policy does not exist
03010001	[ActionInfo] actionType is required
03010001	[ActivateControlPolicyReq] operatePerson is required
03010001	[ActivateControlPolicyReq] policyIds is required
03010001	[AddDeviceInControlPolicyReq] policyIds is required
03010001	[AddDeviceInControlPolicyReq] deviceInfos is required
03010001	[AddDeviceInControlPolicyReq] operatePerson is required
03010001	[ControlPolicyBaseReq] policyName is required
03010001	[ControlPolicyBaseReq] policyType is required
03010001	[ControlPolicyBaseReq] operatePerson is required
03010001	[ControlPolicyBaseReq] policyActions is required
03010001	[DeactivateControlPolicyReq] operatePerson is required
03010001	[DeactivateControlPolicyReq] policyIds is required
03010001	[IsDeviceInControlPolicyReq] deviceIds is required
03010001	[RemoveDeviceInPolicyReq] deviceInfos is required
03010001	[RemoveTargetInPolicyReq] policyTargets is required

03990001	Service cannot be accessed
03003009	Exceed the maximum file limit

## 5.2 Gate Control Policy Management

### 5.2.1 Create Gate Control Policy

<b>API Endpoint</b>	{{studio_base_url}}/POLICYCONTROL/gateControlPolicy/create			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	policyName	Yes	String	Gate control policy name
	policyActions	Yes	Array[ActionInfo]	Access control and policy notification
	policyType	Yes	String	Gate control policy type 0: General
	policyTargets	Yes	Array[TargetInfo]	Target groups
	operatePerson	Yes	String	Operator
	policyDevices	No	Array[DeviceInfo]	Target devices
	policyZones	No	Array[ZoneInfo]	Target zones
	validPeriodStart	No	String	Effective date (yyyyMMdd)
	validPeriodEnd	No	String	Expiration date (yyyyMMdd)
	controlPeriodWeekday	No	String	Active days of week (1-7), separated by commas  For example, if the policy only takes effects on Sat and Sun, then put controlPeriodWeekday = "6,7"
	monitorPeriodStart	No	String	Effective time (HH:mm:ss)
	monitorPeriodEnd	No	String	Expiration time (HH:mm:ss)
	desc	No	String	Description
<b>ActionInfo</b>	actionType	Yes	String	Access control type 0: Block, 1: Allow Notification type 2: Push
	actionTarget	Yes	String	Push address
	actionContent	No	String	Message

<b>TargetInfo</b>	operator	Yes	String	2: Equal to 3: Not equal to
	targetId	Yes	String	Target type ID 0: Person group
	targetValue	Yes	String	Person group unique ID
	classId	No	String	The target groups that need to be matched at the same time share the same classId. Start from 0.
<b>DeviceInfo</b>	deviceId	Yes	String	Device unique ID
	deviceSerial	No	String	Device serial
	deviceType	No	String	Device type
<b>ZoneInfo</b>	zoneId	Yes	String	Zone ID
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		String	Gate control policy unique ID, generated by the system, be used to uniquely identify the gate control policy
<b>Sample Request</b>	<pre>{     "policyName": "Policy name",     "policyActions": [         {             "actionContent": "Allow Access",             "actionTarget": "",             "actionType": "1"         },         {             "actionContent": "",             "actionTarget": "http://pushserver",             "actionType": "2"         }     ],     "policyType": "0",     "policyTargets": [         {             "targetValue": "1",             "operator": "2",             "classId": "0",             "targetId": "0"         }     ] }</pre>			

	<pre>         },         ],         "operatePerson": "9",         "policyDevices": [             {                 "deviceId": "1257915401329709058",                 "deviceSerial": "",                 "deviceType": ""             }         ],         "policyZones": [             {                 "zoneId": "1242648468460146690"             }         ],         "validPeriodStart": "20200622",         "validPeriodEnd": "20200630",         "controlPeriodWeekday": "6,7",         "monitorPeriodStart": "09:30:00",         "monitorPeriodEnd": "18:30:00",         "desc": "Description"     } } </pre>
<b>Sample Response</b>	<pre> {     "code": "0000",     "msg": "成功",     "data": "1272815419639468034",     "success": true } </pre>

### 5.2.2 Activate Gate Control Policy

<b>API Endpoint</b>	{{studio_base_url}}/POLICYCONTROL/gateControlPolicy/activate			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	policyIds	Yes	Array[String]	Policy unique IDs
	operatePerson	Yes	String	Operator

Response Parameters	Name	Required	Type	Description
	data		String	null
Sample Request	<pre>{     "policyIds": [         "1272815419639468034"     ],     "operatePerson": "1" }</pre>			
Sample Response	<pre>{     "code": "0000",     "msg": "成功",     "data": null,     "success": true }</pre>			

### 5.2.3 Deactivate Gate Control Policy

API Endpoint	{{studio_base_url}}/POLICYCONTROL/gateControlPolicy/deactivate			
Method	POST			
Request Format	JSON			
Request Parameters	Name	Required	Type	Description
	policyIds	Yes	Array[String]	Policy unique IDs
Response Parameters	Name	Required	Type	Description
	data		String	null
Sample Request	<pre>{     "policyIds": [         "1272815419639468034"     ],     "operatePerson": "1" }</pre>			
Sample Response	<pre>{     "code": "0000",     "msg": "成功",     "data": null,     "success": true }</pre>			

### 5.2.4 Update Gate Control Policy

<b>API Endpoint</b>	{{studio_base_url}}/POLICYCONTROL/gateControlPolicy/update			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	policyId	Yes	String	Gate control policy unique ID
	policyName	Yes	String	Gate control policy name
	policyActions	Yes	Array[ActionInfo]	Access control and policy notification
	policyType	Yes	String	Gate control policy type 0: General
	policyTargets	Yes	Array[TargetInfo]	Target groups
	operatePerson	Yes	String	Operator
	policyDevices	No	Array[DeviceInfo]	Target devices
	policyZones	No	Array[ZoneInfo]	Target zones
	validPeriodStart	No	String	Effective date (yyyyMMdd)
	validPeriodEnd	No	String	Expiration date (yyyyMMdd)
	controlPeriodWeekday	No	String	Active days of week (1-7), separated by commas  For example, if the policy only takes effects on Sat and Sun, then put controlPeriodWeekday = "6,7"
<b>ActionInfo</b>	monitorPeriodStart	No	String	Effective time (HH:mm:ss)
	monitorPeriodEnd	No	String	Expiration time (HH:mm:ss)
	desc	No	String	Description
<b>TargetInfo</b>	actionType	Yes	String	Access control type 0: Block, 1: Allow Notification type 2: Push
	actionTarget	Yes	String	Push address
	actionContent	No	String	Message
<b>operator</b>	operator	Yes	String	2: Equal to 3: Not equal to
	targetId	Yes	String	Target type ID

				0: Person group
	targetValue	Yes	String	Person group unique ID
	classId	No	String	The target groups that need to be matched at the same time share the same classId. Start from 0.
	<b>DeviceInfo</b>	deviceID	Yes	String
		deviceSerial	No	String
		deviceType	No	String
<b>ZoneInfo</b>	zoneID	Yes	String	Zone ID
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		String	null
<b>Sample Request</b>	<pre>{     "policyId": "1272817325392793602",     "policyName": "Policy name",     "policyActions": [         {             "actionContent": "Allow Access",             "actionTarget": "",             "actionType": "1"         },         {             "actionContent": "",             "actionTarget": "http://pushserver",             "actionType": "2"         }     ],     "policyType": "0",     "policyTargets": [         {             "targetValue": "1",             "operator": "2",             "classId": "0",             "targetId": "0"         }     ],     "operatePerson": "9",     "policyDevices": [         { </pre>			

	<pre>         "deviceId": "1257915401329709058",         "deviceSerial": "",         "deviceType": ""      }, ], "policyZones": [     {         "zoneId": "1242648468460146690"     } ], "validPeriodStart": "20200622", "validPeriodEnd": "20200630", "controlPeriodWeekday": "6,7", "monitorPeriodStart": "09:30:00", "monitorPeriodEnd": "18:30:00", "desc": "Description" } </pre>
<b>Sample Response</b>	<pre> {     "code": "0000",     "msg": "成功",     "data": null,     "success": true } </pre>

### 5.2.5 List Gate Control Policy (Pagination)

<b>API Endpoint</b>	{{studio_base_url}}/POLICYCONTROL/gateControlPolicy/getPageList			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	current	Yes	Integer	Query results on page #. Start from 1.
	size	Yes	Integer	Number of results per page
	policyType	No	String	Gate control policy type 0: General
	privilege	No	String	Privilege (Department ID)
Name	Required	Type	Description	

<b>Response Parameters</b>	data		Array[PolicyInfo]	null
<b>PolicyInfo</b>	policyName	Yes	String	Gate control policy name
	policyType	Yes	String	Gate control policy type 0: General
	policyTargets	Yes	Array[TargetInfo]	Target groups
	policyDevices	No	Array[DeviceInfo]	Target devices
	monitorPeriodStart	No	String	Effective time (HH:mm:ss)
	monitorPeriodEnd	No	String	Expiration time (HH:mm:ss)
	validPeriodStart	No	String	Effective date (yyyyMMdd)
	validPeriodEnd	No	String	Expiration date (yyyyMMdd)
	controlPeriodWeekday	No	String	Active days of week (1-7), separated by commas  For example, if the policy only takes effects on Sat and Sun, then put controlPeriodWeekday = "6,7"
	actionInfoResList		Array[ActionInfo]	
<b>TargetInfo</b>	privilege		String	Privilege (Department ID)
	sts		String	Gate control policy status 0: Effective 1: Ineffective 2: Suspended 3: Deleted 9: Created
	privilege		String	null
	targetId		String	Target type ID 0: Person group
	targetValue		String	Person group unique ID
	targetCnName		String	null
	targetEnName		String	null
<b>DeviceInfo</b>	operator		String	2: Equal to 3: Not equal to
	classId		String	The target groups that need to be matched at the same time share the same classId
<b>DeviceInfo</b>	deviceid		String	Device unique ID

	deviceCnName		String	null
	deviceEnName		String	null
	deviceType		String	Device type
	deviceSerial		String	Device serial
	importSource		String	Device source 0: Portal, 1: Map service
<b>ActionInfo</b>	actionType		String	Access control type 0: Block, 1: Allow Notification type 2: Push
	actionTarget		String	Push address
	actionContent		String	Message
<b>Sample Request</b>	<pre>{     "current": 1,     "size": 1,     "policyType": "",     "privilege": "" }</pre>			
<b>Sample Response</b>	<pre>{     "data": [         {             "policyId": "1272817325392793602",             "policyName": "Policy name",             "policyType": "0",             "policyTargets": [                 {                     "privilege": null,                     "targetId": "0",                     "targetValue": "1",                     "targetCnName": null,                     "targetEnName": null,                     "operator": "2",                     "classId": "0"                 }             ],             "policyDevices": [                 {                     "deviceId": "1257915401329709058", </pre>			

```
        "deviceCnName": null,  
        "deviceEnName": null,  
        "deviceType": null,  
        "deviceSerial": null,  
        "importSource": "0"  
    }  
],  
"monitorPeriodStart": "09:30:00",  
"monitorPeriodEnd": "18:30:00",  
"validPeriodStart": "20200622",  
"validPeriodEnd": "20200630",  
"controlPeriodWeekday": "6,7",  
"actionInfoResList": [  
    {  
        "actionType": "1",  
        "actionTarget": "",  
        "actionContent": "Allow Access"  
    },  
    {  
        "actionType": "2",  
        "actionTarget": "http://pushserver",  
        "actionContent": ""  
    }  
],  
"privilege": "0",  
"sts": "9"  
}  
],  
"size": 1,  
"total": 13,  
"code": "0000",  
"msg": "success"  
}
```

### 5.2.6 Query Gate Control Policy Information by Policy ID

<b>API Endpoint</b>	<code>{{studio_base_url}}/POLICYCONTROL/gateControlPolicy/info</code>
<b>Method</b>	POST

<b>Request Format</b>	form-data			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	policyId	Yes	String	Gate control policy unique ID
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		PolicyInfo	
<b>PolicyInfo</b>	policyId		String	Gate control policy unique ID
	policyName		String	Gate control policy name
	policyType		String	Gate control policy type 0: General
	policyTargets		Array[TargetInfo]	Target groups
	policyTargetNames		String	null
	policyDevices		Array[DeviceInfo]	Target devices
	monitorPeriodStart		String	Effective time (HH:mm:ss)
	monitorPeriodEnd		String	Expiration time (HH:mm:ss)
	validPeriodStart		String	Effective date (yyyyMMdd)
	validPeriodEnd		String	Expiration date (yyyyMMdd)
	controlPeriodWeekday		String	Active days of week (1-7), separated by commas  For example, if the policy only takes effects on Sat and Sun, then put controlPeriodWeekday = "6,7"
	desc		String	Description
	policyActions		Array[ActionInfo]	
	sts		String	null
	privilege		String	Privilege (Department ID)
<b>TargetInfo</b>	privilege		String	null
	targetId		String	Target type ID 0: Person group
	targetValue		String	Person group unique ID
	targetCnName		String	null
	targetEnName		String	null
	operator		String	2: Equal to 3: Not equal to

	classId		String	The target groups that need to be matched at the same time share the same classId
<b>DeviceInfo</b>	deviceId		String	Device unique ID
	deviceCnName		String	Device name
	deviceEnName		String	Device name
	deviceType		String	Device type
	deviceSerial		String	Device serial
	importSource		String	Device source 0: Portal, 1: Map service
<b>ActionInfo</b>	actionType		String	Access control type 0: Block, 1: Allow Notification type 2: Push
	actionTarget		String	Push address
	actionContent		String	Message
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": {         "policyId": "1272817325392793602",         "policyName": "Policy name",         "policyType": "0",         "policyTargets": [             {                 "privilege": null,                 "targetId": "0",                 "targetValue": "1",                 "targetCnName": "Staff",                 "targetEnName": null,                 "operator": "2",                 "classId": "0"             }         ],         "policyTargetNames": null,         "policyDevices": [             {                 "deviceId": "1257915401329709058", </pre>			

```

        "deviceCnName": "SPS020STDC19G07718",
        "deviceEnName": "SPS020STDC19G07718",
        "deviceType": "15",
        "deviceSerial": "SPS020STDC19G07718_0",
        "importSource": "0"
    },
],
"monitorPeriodStart": "09:30:00",
"monitorPeriodEnd": "18:30:00",
"validPeriodStart": "20200622",
"validPeriodEnd": "20200630",
"controlDuration": null,
"controlDurationOn": null,
"controlDurationOff": null,
"controlPeriodWeekday": "6,7",
"desc": "Description",
"policyActions": [
    {
        "actionType": "1",
        "actionTarget": "",
        "actionContent": "Allow Access"
    },
    {
        "actionType": "2",
        "actionTarget": "http://pushserver",
        "actionContent": ""
    }
],
"sts": null,
"privilege": "0"
},
"success": true
}

```

### 5.2.7 Add Devices to Gate Control Policy

<b>API Endpoint</b>	<code>{{studio_base_url}}/POLICYCONTROL/gateControlPolicy/addDeviceInControlPolicy</code>
<b>Method</b>	POST

<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	deviceInfos	Yes	Array[DeviceInfo]	Devices to add to policies
	policyIds	Yes	Array[String]	Policies to be added to
	operatePerson	Yes	String	Operator
<b>DeviceInfo</b>	deviceId	Yes	String	Device unique ID
	importSource	Yes	String	Device source 0: Portal, 1: Map service
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		String	null
<b>Sample Request</b>	<pre>{     "deviceInfos": [         {             "deviceId": "1272444628489998337",             "importSource": "0"         }     ],     "policyIds": [         "1272817325392793602",         "1272445532513505282"     ],     "operatePerson": "1" }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": null,     "success": true }</pre>			

### 5.2.8 Remove Devices from Gate Control Policy

<b>API Endpoint</b>	{{studio_base_url}}/POLICYCONTROL/gateControlPolicy/removeDeviceInControlPolicy			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>

<b>Request Parameters</b>	deviceInfos	Yes	Array[DeviceInfo]	Devices to remove from policy
	policyId	Yes	String	Policy to be removed from
	operatePerson	Yes	String	Operator
<b>DeviceInfo</b>	deviceId	Yes	String	Device unique ID
	importSource	Yes	String	Device source 0: Portal, 1: Map service
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		String	null
<b>Sample Request</b>	<pre>{     "deviceInfos": [         {             "deviceId": "1272444628489998337",             "importSource": "0"         }     ],     "policyId": "1272817325392793602",     "operatePerson": "1" }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": null,     "success": true }</pre>			

### 5.2.9 Remove Target Groups from Gate Control Policy

<b>API Endpoint</b>	{{studio_base_url}}/POLICYCONTROL/gateControlPolicy/removeTargetInControlPolicy			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	policyTargets	Yes	Array[TargetInfo]	Person groups to remove from policy
	policyId	Yes	String	Policy to be removed from
<b>TargetInfo</b>	privilege	No	String	Privilege (Department ID)
	operator	No	String	2: Equal to 3: Not equal to
	targetId	No	String	Target type ID

				0: Person group
	targetValue	No	String	Person group unique ID
	classId	No	String	The target groups that need to be matched at the same time share the same classId. Start from 0.
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		String	null
<b>Sample Request</b>	<pre>{     "policyTargets": [         {             "operator": "2",             "targetId": "0",             "targetValue": "1",             "classId": "0"         }     ],     "policyId": "1270932137394049025" }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": null,     "success": true }</pre>			

### 5.2.10 Query Gate Control Policy of Device

<b>API Endpoint</b>	{{studio_base_url}}/POLICYCONTROL/gateControlPolicy/isDeviceInControlPolicy			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters (in JSON array)</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	deviceId	Yes	Array[String]	Device unique ID
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		Array[PolicyInfo]	
<b>PolicyInfo</b>	deviceId		String	Device unique ID
	policyId		String	Gate control policy unique ID
	policyName		String	Gate control policy name

	policyType		String	Gate control policy type 0: General
<b>Sample Request</b>	["1257915401329709058","1257879674839633922"]			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": [         {             "deviceId": "1257915401329709058",             "policyId": "1257916436144197633",             "policyName": "SPS020STDC19G07718",             "policyType": "0"         },         {             "deviceId": "1257879674839633922",             "policyId": "1266270965512278018",             "policyName": "SenseThunder 05927",             "policyType": "0"         },         {             "deviceId": "1257915401329709058",             "policyId": "1272817325392793602",             "policyName": "Policy name",             "policyType": "0"         }     ],     "success": true }</pre>			

### 5.2.11 Query Gate Control Policy of Person Group

<b>API Endpoint</b>	{{studio_base_url}}/POLICYCONTROL/gateControlPolicy/isTargetInControlPolicy			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	targetId	Yes	String	Target type ID 0: Person group
	targetValue	Yes	String	Person group unique ID
	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>

<b>Response Parameters</b>	data		Array[String]	Gate control policy unique IDs
<b>Sample Request</b>	{ "targetId": "0", "targetValue": "1" }			
<b>Sample Response</b>	{ "code": "0000", "msg": "成功", "data": [ "1243431058267967490", "1245608535987851265", "1272817325392793602" ], "success": true }			

## 6 Monitor Policy API

### 6.1 Monitor Policy API Return Code

Return Code	Return Code Description	Possible Causes	Solution Suggestion
0000	Success		
04001000	monitor policy has already exist	Duplicate monitor policy	Monitor policy name should be unique.
04001020	monitor policy doesn't exist	Monitor policy doesn't exist	Check the database if the policy has been deleted. Check the operator and deletion time, to determine whether it is deleted normally.
04001021	gate monitor policy doesn't exist	Gate monitor policy doesn't exist	Check the database if the policy has been deleted. Check the operator and deletion time, to determine whether it is deleted normally.
04001040	create monitor policy failed	Monitor policy creation failed	Check the status of DB and monitor policy service. Check if input parameters are valid.
04001041	create gate monitor policy failed	Gate monitor policy creation failed.	Check the status of DB and monitor policy service. Check if input parameters are valid.
04001042	create monitor policy and notification relation failed	Policy-notification mapping creation failed	Check the status of DB and monitor policy service. Check if input parameters are valid.
04001043	create monitor policy and device relation failed	Policy-device mapping creation failed	Check the status of DB and monitor policy service. Check if input parameters are valid.
04001044	create monitor policy and target relation failed	Policy-target mapping creation failed	Check the status of DB and monitor policy service. Check if input parameters are valid.

04001046	add device in monitor policy failed	Add Device to monitor policy failed	Check the status of DB and monitor policy service. Check if input parameters are valid.
04001060	update monitor policy failed	Monitor policy update failed	Check the status of DB and monitor policy service. Check if input parameters are valid.
04001061	update gate monitor policy failed	Gate monitor policy update failed	Check the status of DB and monitor policy service. Check if input parameters are valid.
04001065	update monitor policy and notification relation failed	Policy-notification mapping update failed	Check the status of DB and monitor policy service. Check if input parameters are valid.
04001066	update monitor policy and device relation failed	Policy-device mapping update failed	Check the status of DB and monitor policy service. Check if input parameters are valid.
04001067	update monitor policy and target relation failed	Policy-target mapping update failed	Check the status of DB and monitor policy service. Check if input parameters are valid.
04001068	update target definition info failed	Target definition info update failed	Check the status of DB and monitor policy service. Check if input parameters are valid.
04001069	update target dictionary info failed	Target dictionary info update failed	Check the status of DB and monitor policy service. Check if input parameters are valid.
04001070	failed!data already exists!	Data already exists	Check if the data already exists
04001081	deactivate monitor policy failed	Monitor policy deletion failed	Check the status of DB and monitor policy service. Check if input parameters are valid.
04011090	target value is required	Missing target attributes	Input target attributes

04011091	event type is required	Missing control result	Input control result
04011092	device is required	Missing target devices	Input target devices
04011093	notification is required	Missing notification type	Input notification type
04011094	monitor policy name is required	Missing monitor policy name	Input monitor policy name
04011095	monitor policy type is required	Missing monitor policy type	Input monitor policy type
0401999	deptId can not be empty	Missing column deptId	Input column deptId
04011098	tDid is required	Missing column tDid	Input column tDid
04011099	targetOptionIdentifier is required	Missing column targetOptionIdentifier	Input column targetOptionIdentifier
04011100	targetOptionEn is required	Missing column targetOptionEn	Input column targetOptionEn
04011101	targetOption is required	Missing column targetOption	Input column targetOption
04011102	operatePerson is required	Missing column operatePerson	Input column operatePerson
04011104	trackLevel is required	Missing column trackLevel	Input column trackLevel

## 6.2 Parameter Definition

### 6.2.1 Control Result Definition

eventType Value	Control Result
0	Deny
1	Allow
2	All
-1	Stranger
-2	Non-living
-3	Tamper alarm
-4	Forced opening
-5	Gate magnetic timeout
-6	Password attack
-7	Dirty lens
-8	Fire alarm
-9	Bluetooth in low battery
-10	Thermographic camera connection error
-11	Feature extraction failed

## 6.2.2 Attribute Feature Definition

### 6.2.2.1 Person Group

Feature ID	Feature Name	Feature Value	Feature Value Name
0	Person Group	N/A(Group unique ID)	

### 6.2.2.2 Intelligent Device

Feature ID	Feature Name	Feature Value	Feature Value Name
75	AbnormalType	0	None
		1	FaceIDMismatch
		2	FaceCardMismatch
		3	FaceCodeMismatch
		4	InvalidVisitingPeriod
		5	InvalidAccessibleTime
		6	InvalidIDCard
		7	InvalidICCard
		8	InvalidQRCode
		9	AbnormalBodyTemperature

### 6.2.2.3 Pedestrian

Feature ID	Feature Name	Feature Value	Feature Value Name
-1	All(Human)	0	No
		1	Yes
4	Age	0	Adult
		1	Old
		2	Child
5	Gender	0	Male
		1	Female
6	Angle	0	Front
		1	Side
		2	Back
7	WithUmbrella	0	NoUmbrella
		1	WithUnbrella
8	BagType	0	HandBag
		1	ShoulderBag
		2	Backpack
		3	Trolley

		4	NoBag
		8	WaistPack
9	SleevesType	0	ShortSleeve
		1	LongSleeve
10	BottomsType	0	Trousers
		1	Shorts
		2	Skirt
11	TopsColor	0	Black
		1	White
		2	Gray
		3	Red
		4	Yellow
		5	Blue
		6	Green
		7	Purple
		8	Orange
		9	Brown
		10	Cyan
		11	Pink
		13	TRANSPARENT
12	BottomsColor	0	Black
		1	White
		2	Gray
		3	Red
		4	Yellow
		5	Blue
		6	Green
		7	Purple
		8	Orange
		9	Brown
		10	Cyan
		11	Pink
		13	TRANSPARENT
13	TopsPattern	0	Solid
		1	Stripes
		2	Graphic
		3	Joint

		4	Checks
14	UmbrellaColor	1	Black
		2	White
		3	Gray
		4	Red
		5	Blue
		6	Yellow
		7	Orange
		8	Brown
		9	Green
		10	Purple
		11	Cyan
		12	Pink
		13	Transparent
15	ShoesType	2	LeatherShoes
		5	Sandals
		6	CasualShoes
		7	Boots
16	HatsType	0	NoHat
		5	BucketHat
		6	Bonnet
		7	Cap
		9	Helmet
17	BottomsPattern	0	Solid
		1	Stripes
		2	Graphic
		3	Joint
		4	Checks
18	HoldingThings	0	HoldObject
22	TopsType	1	BusinessSuit
		3	T-Shirt
		4	Shirt
		6	Jacket
		8	LongCoat
		10	SWEATER
		12	DownCoat
		13	SportsWear

		17	Dress
		99	Others
23	HairStyle	6	Bald
		11	Long
		100	Short
24	HairColor	1	Black
		2	White
		3	GRAY
		4	RED
		5	BLUE
		6	Yellow
		7	ORANGE
		8	BROWN
		9	GREEN
		10	PURPLE
		11	CRAN
		12	PINK
		13	TRANSPARENT
25	ShoesColor	1	Black
		2	White
		3	Gray
		4	Red
		5	Blue
		6	Yellow
		7	Orange
		8	Brown
		9	Green
		10	Purple
		11	Cyan
		12	Pink
		13	TRNASPARENT
26	BagColor	1	Black
		2	White
		3	Gray
		4	Red
		5	Blue
		6	Yellow

		7	Orange
		8	Brown
		9	Green
		10	Purple
		11	Cyan
		12	Pink
		13	TRANSPARENT
27	WithMask	0	Unknown
		1	Unrecognized
		2	NoMask
		3	WithMask
28	MaskColor	1	Black
		2	White
		3	Gray
		4	RED
		5	Blue
		6	YELLOW
		7	ORANGE
		8	BROWN
		9	GREEN
		10	PURPLE
		11	CRAN
		12	PINK
		13	TRANSPARENT
29	HatsColor	1	Black
		2	White
		3	Gray
		4	RED
		5	Blue
		6	YELLOW
		7	ORANGE
		8	BROWN
		9	GREEN
		10	PURPLE
		11	CRAN
		12	PINK
		13	TRANSPARENT

55	SkinColor	2	Yellow
		3	Black
		4	White
56	ExpressionType	1	Glasses
		3	Anger
		4	Sad
		5	Disgust
		6	Fear
		7	Surprise
		8	Normal
		10	NoGlasses
		11	Joy
		12	Confusion
		13	Scream
		14	SunGlasses
		15	Depression
57	AgeEstimation	N/A(Estimated Age)	
70	WithBag	0	WithBag
71	WithHat	0	WithHat
72	AgeUpperLimit	0	90
		1	59
		2	14
73	AgeLowerLimit	0	60
		1	18
		2	0
74	BodyTemperature	N/A(Body Temperature)	
76	WithBeard	0	Unknown
		1	Unrecognized
		2	noMoustache
		3	moustache

#### 6.2.2.4 Vehicle

Feature ID	Feature Name	Feature Value	Feature Value Name
-3	All(Vehicle)	0	No
		1	Yes
1	vehicleColor	0	Gray
		1	White

		2	Red
		3	Black
		4	Blue
		5	Green
		6	Brown
		7	Yellow
		8	Purple
		9	Pink
2	vehicleType	0	Car
		1	Van
		2	SmallTruck
		3	BigTruck
		4	SUV
		5	LargeBus
		6	MediumBus

#### 6.2.2.5 Non-motor Vehicle

Feature ID	Feature Name	Feature Value	Feature Value Name
-2	All(Moped)	0	No
		1	Yes
77	MopedColor	0	Gray
		1	White
		2	Red
		3	Black
		4	Blue
		5	Green
		6	Brown
		7	Yellow
		8	Purple
		9	Pink
78	MopedType	0	e-bike
		1	motor
		2	bicycle
		3	tricycle

## 6.3 Gate Monitor Policy Management

### 6.3.1 Create Gate Monitor Policy

<b>API Endpoint</b>	{{studio_base_url}}/POLICYCONTROL/gateMonitorPolicy/create			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	policyName	Yes	String	Gate monitor policy name
	policyActions	Yes	Array[ActionInfo]	Notification
	policyType	Yes	String	Monitor policy type 3: Gate monitor
	eventType	Yes	String	Control result Please refer to 6.2.1 Control Result Definition
	policyDevices	Yes	Array[DeviceInfo]	Target devices
	deviceScope	Yes	String	Device aggregation "": No device aggregation "1": Single device calculation "N": Compound device calculation
	operatePerson	Yes	String	Operator
	validPeriodStart	No	String	Effective date (yyyyMMdd)
	validPeriodEnd	No	String	Expiration date (yyyyMMdd)
	monitorPeriodWeekday	No	String	Active days of week (1-7), separated by commas For example, if the policy only takes effects on Sat and Sun, then put monitorPeriodWeekday = "6,7"
	monitorPeriodStart	No	String	Effective time (HH:mm:ss)
	monitorPeriodEnd	No	String	Expiration time (HH:mm:ss)
	targetScope	No	String	Feature aggregation 1: Single feature calculation N: Compound feature calculation
	rollingWindow	No	String	Rolling interval

				Format: {Days}:{Hours}:{Minutes}
	rollingCount	No	String	Rolling accumulations
	policyTargets	No	Array[TargetInfo]	Target attribute features
	desc	No	String	Description
<b>ActionInfo</b>	actionType	Yes	String	Notification type 2: Push
	actionTarget	Yes	String	Push address
	actionContent	No	String	Message
<b>DeviceInfo</b>	deviceId	Yes	String	Device unique ID
	deviceSerial	No	String	Device serial
	deviceType	No	String	Device type
<b>TargetInfo</b>	operator	Yes	String	0: Greater than 1: Less than 2: Equal to 3: Not equal to 4: Not exists 5: Exists
	targetId	Yes	String	Attribute feature ID Please refer to 6.2.2 Attribute Feature Definition
	targetValue	Yes	String	Attribute feature value Please refer to 6.2.2 Attribute Feature Definition
	classId	No	String	The target attributes that need to be monitored together share the same classId. Start from 0.
<b>Response Parameters</b>	Name	Required	Type	Description
	data		String	Gate monitor policy unique ID, generated by the system, be used to uniquely identify the gate monitor policy
<b>Sample Request</b>	<pre>{   "policyName": "Gate Monitor Policy",   "policyActions": [     {       "actionType": "2",       "actionTarget": "http://pushserver",     }   ] }</pre>			

```
        "actionContent": "",  
    },  
],  
"policyType": "3",  
"eventType": "2",  
"policyDevices": [  
    {  
        "deviceId": "1257879674839633922",  
        "deviceSerial": "",  
        "deviceType": ""  
    }  
,  
"deviceScope": "N",  
"operatePerson": "9",  
"validPeriodStart": "",  
"validPeriodEnd": "",  
"monitorPeriodWeekday": "",  
"monitorPeriodEnd": "",  
"monitorPeriodStart": "",  
"targetScope": "1",  
"rollingWindow": "1:0:0",  
"rollingCount": "2",  
"policyTargets": [  
    {  
        "operator": "0",  
        "targetId": "74",  
        "targetValue": "38",  
        "classId": "0"  
    },  
    {  
        "operator": "2",  
        "targetId": "75"  
        "targetValue": "9",  
        "classId": "1",  
    }  
,  
"desc": "Description"  
}
```

<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": "1272815419639468034",     "success": true }</pre>
------------------------	--

### 6.3.2 Update Gate Monitor Policy

<b>API Endpoint</b>	{{studio_base_url}}/POLICYCONTROL/gateMonitorPolicy/update			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	policyId	Yes	String	Gate monitor policy unique ID
	policyName	Yes	String	Gate monitor policy name
	policyActions	Yes	Array[ActionInfo]	Policy notification
	policyType	Yes	String	Monitor policy type 3: Gate monitor
	eventType	Yes	String	Control result Please refer to 6.2.1 Control Result Definition
	policyDevices	Yes	Array[DeviceInfo]	Target devices
	operatePerson	Yes	String	Operator
	validPeriodStart	No	String	Effective date (yyyyMMdd)
	validPeriodEnd	No	String	Expiration date (yyyyMMdd)
	monitorPeriodWeekday	No	String	Active days of week (1-7), separated by commas For example, if the policy only takes effects on Sat and Sun, then put monitorPeriodWeekday = "6,7"
	monitorPeriodStart	No	String	Effective time (HH:mm:ss)
	monitorPeriodEnd	No	String	Expiration time (HH:mm:ss)
	targetScope	No	String	Feature aggregation 1: Single feature calculation N: Compound feature calculation

	deviceScope	No	String	Device aggregation 1: Single device calculation N: Compound device calculation
	rollingWindow	No	String	Rolling interval Format: {Days}:{Hours}:{Minutes}
	rollingCount	No	String	Rolling accumulations
	policyTargets	No	Array[TargetInfo]	Target attribute features
	desc	No	String	Description
<b>ActionInfo</b>	actionType	Yes	String	Notification type 2: Push
	actionTarget	Yes	String	Push address
	actionContent	No	String	Message
<b>DeviceInfo</b>	deviceId	Yes	String	Device unique ID
	deviceSerial	No	String	Device serial
	deviceType	No	String	Device type
<b>TargetInfo</b>	operator	Yes	String	0: Greater than 1: Less than 2: Equal to 3: Not equal to 4: Not exists 5: Exists
	targetId	Yes	String	Attribute feature ID Please refer to 6.2.2 Attribute Feature Definition
	targetValue	Yes	String	Attribute feature value Please refer to 6.2.2 Attribute Feature Definition
	classId	No	String	The target attributes that need to be monitored together share the same classId. Start from 0.
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		String	Gate monitor policy unique ID
<b>Sample Request</b>	<pre>{   "policyId": "1272860662661386242",   "policyName": "Gate Monitor Policy",   "policyActions": [     {       "actionType": "Push",       "actionTarget": "127.0.0.1:8080"     }   ],   "deviceScope": "N",   "rollingWindow": "1:1:0",   "rollingCount": "1",   "policyTargets": [     {       "operator": "Equal to",       "targetId": "127.0.0.1:8080"     }   ],   "desc": "A gate monitor policy for testing" }</pre>			

```
        "actionType": "2",
        "actionTarget": "http://pushserver",
        "actionContent": ""

    },
],
"policyType": "3",
"eventType": "2",
"policyDevices": [
{
    "deviceId": "1257879674839633922",
    "deviceSerial": "",
    "deviceType": ""

},
],
"deviceScope": "N",
"operatePerson": "9",
"validPeriodStart": "",
"validPeriodEnd": "",
"monitorPeriodWeekday": "",
"monitorPeriodEnd": "",
"monitorPeriodStart": "",
"targetScope": "1",
"rollingWindow": "1:0:0",
"rollingCount": "2",
"policyTargets": [
{
    "operator": "0",
    "targetId": "74",
    "targetValue": "38",
    "classId": "0"
},
{
    "operator": "2",
    "targetId": "75"
    "targetValue": "9",
    "classId": "1",
}
],
]
```

	<pre>"desc": "Description" }</pre>
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": "1272815419639468034",     "success": true }</pre>

### 6.3.3 Query Gate Monitor Policy Information by Policy ID

<b>API Endpoint</b>	{{studio_base_url}}/POLICYCONTROL/gateMonitorPolicy/info			
<b>Method</b>	POST			
<b>Request Format</b>	form-data			
Request Parameters	Name	Required	Type	Description
	policyId	Yes	String	Gate monitor policy unique ID
Response Parameters	Name	Required	Type	Description
	data		PolicyInfo	
<b>PolicyInfo</b>	policyId		String	Gate monitor policy unique ID
	policyType		String	Monitor policy type 3: Gate monitor
	policyName		String	Monitor policy name
	monitorPeriodStart		String	Effective time (HH:mm:ss)
	monitorPeriodEnd		String	Expiration time (HH:mm:ss)
	validPeriodStart		String	Effective date (yyyyMMdd)
	validPeriodEnd		String	Expiration date (yyyyMMdd)
	monitorPeriodWeekday		String	Active days of week (1-7), separated by commas  For example, if the policy only takes effects on Sat and Sun, then put monitorPeriodWeekday = "6,7"
	sts		String	Monitor policy status 0: Effective 1: Ineffective 2: Suspended

				3: Deleted 9: Created
desc		String		Description
policyActions		Array[ActionInfo]		Notification
policyTargets		Array[TargetInfo]		Target attribute features
policyDevices		Array[DeviceInfo]		Target devices
privilege		String		Privilege (Department ID)
deviceScope		String		Device aggregation 1: Single device calculation N: Compound device calculation
targetScope		String		Feature aggregation 1: Single feature calculation N: Compound feature calculation
rollingWindow		String		Rolling interval Format: {Days}:{Hours}:{Minutes}
rollingCount		String		Rolling accumulations
eventType		String		Control result Please refer to 6.2.1 Control Result Definition
<b>ActionInfo</b>	actionType	Yes	String	Notification type 2: Push
	actionTarget	Yes	String	Push address
	actionContent	No	String	Message
<b>TargetInfo</b>	targetId		String	Feature ID
	targetEnName		String	Feature English name
	targetCnName		String	Feature Chinese name
	targetCnOption		String	Feature Chinese option
	targetEnOption		String	Feature English option
	targetValue		String	Feature value
	operator		String	0: Greater than 1: Less than 2: Equal to 3: Not equal to 4: Not exists 5: Exists

	classId		String	The target attributes that need to be monitored together share the same classId. Start from 0.
	matchingThreshold		String	Feature threshold
<b>DeviceInfo</b>	deviceId		String	Device unique ID
	deviceEnName		String	Device name
	deviceCnName		String	Device name
	deviceType		String	Device type
	deviceSerial		String	Device serial
	importSource		String	Device source 0: Portal, 1: Map service
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": {         "policyId": "1243410060239966209",         "policyType": "3",         "policyName": "Abnormal Temperature",         "monitorPeriodStart": "",         "monitorPeriodEnd": "",         "validPeriodStart": "",         "validPeriodEnd": "",         "monitorPeriodWeekday": "",         "sts": "0",         "desc": "",         "policyActions": [             {                 "actionType": "2",                 "actionTarget": "http://pushaddress",                 "actionContent": ""             }         ],         "policyTargets": [             {                 "targetId": "74",                 "targetEnName": "BodyTemperature",                 "targetCnName": "体温",                 "targetCnOption": "37.3",                 "targetUnit": "C"             }         ]     } }</pre>			

```

        "targetEnOption": null,
        "targetValue": "37.3",
        "operator": "0",
        "classId": "0",
        "matchingThreshold": null
    }
],
"policyDevices": [
{
    "deviceId": "1243403012861333506",
    "deviceEnName": "SenseThunder-E_1",
    "deviceCnName": "SenseThunder-E_1",
    "deviceType": "17",
    "deviceSerial": "SPS020PROC19H04459_0",
    "importSource": "0"
}
],
"privilege": "0",
"deviceScope": "",
"targetScope": "",
"rollingWindow": "",
"rollingCount": "",
"eventType": "2"
},
"success": true
}

```

## 6.4 Monitor Policy Management

### 6.4.1 Activate Monitor Policy

API Endpoint	{{studio_base_url}}/POLICYMONITOR/monitoringPolicy/activate		
Method	POST		
Request Format	JSON		
Request Parameters	Name	Required	Type
	policyIds	Yes	Array[String]
Response Parameters	operatePerson	Yes	String
	data		String

<b>Sample Request</b>	<pre>{     "policyIds": [         "1272860662661386242",         "1272843964122140673"     ],     "operatePerson": "1" }</pre>
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": null,     "success": true }</pre>

#### 6.4.2 Deactivate Monitor Policy

<b>API Endpoint</b>	{{studio_base_url}}/POLICYMONITOR/monitoringPolicy/deactivate							
<b>Method</b>	POST							
<b>Request Format</b>	JSON							
<b>Request Parameters</b>	<table border="1" data-bbox="377 1084 1487 1161"> <thead> <tr> <th>Name</th> <th>Required</th> <th>Type</th> <th>Description</th> </tr> </thead> </table>	Name	Required	Type	Description			
Name	Required	Type	Description					
<table border="1" data-bbox="377 1161 1487 1237"> <tbody> <tr> <td>policyIds</td> <td>Yes</td> <td>Array[String]</td> <td>Monitor policy unique ID</td> </tr> <tr> <td>operatePerson</td> <td>Yes</td> <td>String</td> <td>Operator</td> </tr> </tbody> </table>	policyIds	Yes	Array[String]	Monitor policy unique ID	operatePerson	Yes	String	Operator
policyIds	Yes	Array[String]	Monitor policy unique ID					
operatePerson	Yes	String	Operator					
<b>Response Parameters</b>	<table border="1" data-bbox="377 1237 1487 1313"> <thead> <tr> <th>Name</th> <th>Required</th> <th>Type</th> <th>Description</th> </tr> </thead> </table>	Name	Required	Type	Description			
Name	Required	Type	Description					
<table border="1" data-bbox="377 1313 1487 1334"> <tbody> <tr> <td>data</td> <td></td> <td>String</td> <td>null</td> </tr> </tbody> </table>	data		String	null				
data		String	null					
<b>Sample Request</b>	<pre>{     "policyIds": [         "1272860662661386242",         "1272843964122140673"     ],     "operatePerson": "1" }</pre>							
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": null,     "success": true }</pre>							

#### 6.4.3 Add Device to Monitor Policy

API Endpoint	{{studio_base_url}}/POLICYMONITOR/monitoringPolicy/addDeviceInMonitorPolicy			
Method	POST			
Request Format	JSON			
Request Parameters	Name	Required	Type	Description
	deviceInfos	Yes	Array[DeviceInfo]	Device information
	policyId	Yes	String	Monitor policy unique ID
	operatePerson	Yes	String	Operator
DeviceInfo	deviceId	Yes	String	Device unique ID
	importSource	Yes	String	Device source 0: Portal, 1: Map service
Response Parameters	Name	Required	Type	Description
	data		Array[String]	
Sample Request	<pre>{     "deviceInfos": [         {             "deviceId": "1257879674839633922",             "importSource": "0"         },         {             "deviceId": "1243403012861333506",             "importSource": "0"         }     ],     "policyId": "1272844240195424257",     "operatePerson": "1" }</pre>			
Sample Response	<pre>{     "code": "0000",     "msg": "成功",     "data": [],     "success": true }</pre>			

#### 6.4.4 Remove Device from Monitor Policy

API Endpoint	{{studio_base_url}}/POLICYMONITOR/monitoringPolicy/removeDeviceInMonitorPolicy
Method	POST

<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	deviceInfos	Yes	Array[DeviceInfo]	Device information
	policyId	Yes	String	Monitor policy unique ID
<b>DeviceInfo</b>	operatePerson	Yes	String	Operator
	deviceId	Yes	String	Device unique ID
<b>Response Parameters</b>	importSource	Yes	String	Device source 0: Portal, 1: Map service
	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		String	null
<b>Sample Request</b>	<pre>{     "deviceInfos": [         {             "deviceId": "1257879674839633922",             "importSource": "0"         },         {             "deviceId": "1243403012861333506",             "importSource": "0"         }     ],     "policyId": "1272844240195424257",     "operatePerson": "1" }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": null,     "success": true }</pre>			

#### 6.4.5 Remove Target from Monitor Policy

<b>API Endpoint</b>	{{studio_base_url}}/POLICYMONITOR/monitoringPolicy/removeTargetInMonitorPolicy			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	policyId	Yes	String	Monitor policy unique ID

	policyTargets	Yes	Array[TargetInfo]	Target attribute features
<b>TargetInfo</b>	targetId	Yes	String	Attribute feature ID
	targetValue	Yes	String	Attribute feature value
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		String	null
<b>Sample Request</b>	<pre>{     "policyId": "1272844240195424257",     "policyTargets": [         {             "targetId": "74",             "targetValue": "38"         },         {             "targetId": "75",             "targetValue": "9"         }     ] }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": null,     "success": true }</pre>			

#### 6.4.6 List Monitor Policy (Pagination)

<b>API Endpoint</b>	{{studio_base_url}}/POLICYMONITOR/monitoringPolicy/list			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	current	Yes	Integer	Query results on page #. Start from 1.
	size	Yes	Integer	Number of results per page
	policyName	No	String	Monitor policy name
	monitorPeriodStart	No	String	Effective time (HH:mm:ss)
	monitorPeriodEnd	No	String	Expiration time (HH:mm:ss)

	validPeriodStart	No	String	Effective date (yyyyMMdd)
	validPeriodEnd	No	String	Expiration date (yyyyMMdd)
	sts	No	String	Monitor policy status 0: Effective 1: Ineffective 2: Suspended 3: Deleted 9: Created
	desc	No	String	Description
	policyType	No	String	Monitor policy type 3: Gate monitor
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		PolicyInfo	null
<b>PolicyInfo</b>	policyId		String	Monitor policy unique ID
	policyName		String	Monitor policy name
	monitorPeriodStart		String	Effective time (HH:mm:ss)
	monitorPeriodEnd		String	Expiration time (HH:mm:ss)
	validPeriodStart		String	Effective date (yyyyMMdd)
	validPeriodEnd		String	Expiration date (yyyyMMdd)
	sts		String	Monitor policy status 0: Effective 1: Ineffective 2: Suspended 3: Deleted 9: Created
	desc		String	Description
	policyType		String	Monitor policy type 3: Gate monitor
	monitorPeriodWeekday		String	Active days of week (1-7), separated by commas For example, if the policy only takes effects on Sat

				and Sun, then put monitorPeriodWeekday = "6,7"
	privilege		String	Privilege (Department ID)
<b>Sample Request</b>	{  "current": 1, "size": 10, "policyName": "Temperature", "monitorPeriodStart": "", "monitorPeriodEnd": "", "validPeriodStart": "", "validPeriodEnd": "", "sts": "", "desc": "", "policyType": "3" }			
<b>Sample Response</b>	{  "data": [ { "policyId": "1272844240195424257", "policyName": "Abnormal Temperature", "monitorPeriodStart": "", "monitorPeriodEnd": "", "validPeriodStart": "", "validPeriodEnd": "", "sts": "0", "desc": "", "policyType": "3", "monitorPeriodWeekday": "", "privilege": "0" } ], "size": 10, "total": 1, "code": "0000", "msg": "success" }			

#### 6.4.7 Query Monitor Policy of Device

<b>API Endpoint</b>	{{studio_base_url}}/POLICYCONTROL/monitoringPolicy/isDeviceInMonitorPolicy			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters (in JSON array)</b>	Name	Required	Type	Description
	deviceId	Yes	Array[String]	Device unique ID
<b>Response Parameters</b>	Name	Required	Type	Description
	data		Array[PolicyInfo]	
<b>PolicyInfo</b>	deviceId		String	Device unique ID
	policyId		String	Gate control policy unique ID
	policyName		String	Gate control policy name
	privilege		String	Privilege (Department ID)
	policyType		String	Gate control policy type 0: General
<b>Sample Request</b>	<pre>[     "1257879674839633922",     "1243403012861333506" ]</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": [         {             "deviceId": "1243403012861333506",             "policyId": "1272844240195424257",             "policyName": "Abnormal Temperature",             "privilege": null,             "policyType": "3"         },         {             "deviceId": "1257879674839633922",             "policyId": "1257881270512259073",             "policyName": "Contact Tracing",             "privilege": null,             "policyType": "3"         }     ], }</pre>			

	<pre>"success": true }</pre>
--	------------------------------

#### 6.4.8 Query Monitor Policy of Target

<b>API Endpoint</b>	{{studio_base_url}}/POLICYCONTROL/gateControlPolicy/isTargetInControlPolicy			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	targetId	Yes	String	Target type ID 0: Person group
	targetValue	Yes	String	Person group unique ID
	operator	Yes	String	0: Greater than 1: Less than 2: Equal to 3: Not equal to 4: Not exists 5: Exists
<b>Response Parameters</b>	Name	Required	Type	Description
	data		Array[String]	Monitor policy unique IDs
<b>Sample Request</b>	<pre>{     "targetId": "74",     "targetValue": "37.5",     "operator": "0" }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "成功",     "data": [         "1272844240195424257 "     ],     "success": true }</pre>			

## 7 Event Handler API

### 7.1 Event Handler API Return Code

Return Code	Return Code Description	Possible Causes	Solution Suggestion
0000	Success		
06999999	SystemError	System exception	Investigate the cause by checking the backend logs
06011001	ParameterException	Parameter exception	Check input parameters
06011002	DateFormat error	Date format is fault	Check input date parameter
06022000	No permission	Without permission	Check API permission
06999000	MySQL error	MySQL exception	Check MySQL database
06999001	Cassandra error	Cassandra exception	Check Cassandra database

### 7.2 Event Record Management

#### 7.2.1 Search Gate Monitor Event Record

API Endpoint	{{studio_base_url}}/EVENTHANDLER/triggerEventHistory/gateMonitorEventRecordQuery			
Method	POST			
Request Format	JSON			
Request Parameters	Name	Required	Type	Description
	current	Yes	Integer	Query results on page #. Start from 1.
	size	Yes	Integer	Number of results per page
	startDate	No	String	Search start date Format: yyyyMMdd_HH:mm:ss
	endDate	No	String	Search end date Format: yyyyMMdd_HH:mm:ss
	policyId	No	String	Policy unique ID
	deviceId	No	String	Device unique ID
	personId	No	String	Person unique ID
	Name	Required	Type	Description

<b>Response Parameters</b>	data		Array[EventRecord]	null
<b>Event Record</b>	uuid		String	Event record unique ID
	eventType		String	Event type
	policyId		String	Policy unique ID
	policyType		String	Monitor policy type 3: Gate monitor
	policyName		String	Policy name
	triggerDeviceId		String	Triggered device unique ID
	triggerDeviceSerial		String	Triggered device serial
	triggerTime		String	Triggered time Format: yyyy-MM-dd HH:mm:ss.SSS
	triggerTargets		Array[TargetInfo]	Triggered target
	triggerValues		String	Triggered value
	triggerPersonId		String	Triggered person unique ID
	triggerImgUrl		String	Triggered image URL
	targetImgUrl		String	Matched base image URL
	bkImgUrl		String	Background image URL
	triggerActionType		String	Notification type 2: Push
	triggerActionTarget		String	Push address
	triggerActionContent		String	Message Separated by commas
	privilege		String	Privilege (Department ID)
	idNumber		String	Person ID number
	icNumber		String	Person document number
	createUser		String	Create user
	createTs		String	Create time
	lastModUser		String	Last modified user
	lastModTs		String	Last modified time
	detect		String	Face coordinates

	triggerImageRoil d		String	Triggered zone ID
	triggerImageTyp e		String	Triggered structural type
	desc		String	Event description
	attributes		Array[Attribute]	
	score		String	Matching score
<b>Target Info</b>	targetId		String	Feature ID
	targetEnName		String	Feature English name
	targetCnName		String	Feature Chinese name
	targetValue		String	Feature value
	operator		String	0: Greater than 1: Less than 2: Equal to 3: Not equal to 4: Not exists 5: Exists
	classId		String	The target attributes that need to be monitored together share the same classId. Start from 0.
	matchingThresho ld		String	Matching threshold
	canCleanMatchin ThreshHold		Boolean	
<b>Attrib ute</b>	conf		String	Confidence score
	value		String	Attribute feature value
	key		String	Attribute feature ID
<b>Sampl e Reque st</b>	{ "current": 1, "size": 2, "startDate": "20200406_00:00:00", "endDate": "20200406_23:59:59", "policyId": "", "deviceId": "", "personId": "" }			

Sample Response	<pre>{     "code": "0000",     "msg": "success",     "data": [         {             "uuid": "W4erpdBzTaKltZn9foSXpA",             "eventType": "gateMonitorTriggerEvent",             "policyId": "1244472500578947073",             "policyType": "3",             "policyName": "SenseThunder-Normal",             "triggerDeviceId": "1243403012861333506",             "triggerDeviceSerial": "SPS020PROC19H04459_0",             "triggerTime": "2020-04-06 10:05:26.499",              "triggerTargets": "[{\\"classId\\":\\"0\\",\\"targetCnName\\":\\"体温\\",\\"targetId\\":\\"74\\",\\"canCleanMatchingThreshHold\\":true,\\"targetValue\\":\\"38\\",\\"matchingThreshold\\":\\"\\",\\"targetEnName\\":\\"BodyTemperature\\",\\"operator\\":\\"1\\"}]",             "triggerValues": "",             "triggerPersonId": "313",             "triggerImgUrl":                 "http://hostserver/intersense//images/sensepass/20200406/20200406_2_b88929374f724f51988ca9b361559e64.jpeg",             "targetImgUrl":                 "http://hostserver/intersense//images/person/20200330/107/7fc75a99ed00889b4c0b8e55f88657af.jpg",             "bkImgUrl": null,             "triggerActionType": "3",             "triggerActionTarget": "defaultActionTarget",             "triggerActionContent": "defaultActionContent",             "privilege": "0",             "idNumber": "5209",             "icNumber": "",             "createUser": "Alice",             "createTs": "2020-04-06 10:01:17",             "lastModUser": "Alice",             "lastModTs": "2020-04-06 10:01:17",             "detect": null,             "triggerImageRoId": ""},         ]     ] }</pre>
-----------------	--

```
"triggerImageType": "",  
"desc": "",  
"attributes": [  
    {  
        "conf": "1",  
        "value": "36.736702",  
        "key": "74"  
    },  
    {  
        "conf": "1",  
        "value": "0",  
        "key": "75"  
    }  
],  
"score": "0.9567004"  
,  
{  
    "uuid": "n6TS1ZP7QHW_mDa-YFBi1A",  

```

```
"triggerActionContent": "defaultActionContent",
"privilege": "0",
"idNumber": "",
"icNumber": "",
"createUser": "Alice",
"createTs": "2020-04-06 09:46:18",
"lastModUser": "Alice",
"lastModTs": "2020-04-06 09:46:18",
"detect": null,
"triggerImageRoId": "",
"triggerImageType": "",
"desc": "",
"attributes": [
  {
    "conf": "1",
    "value": "36.5365",
    "key": "74"
  },
  {
    "conf": "1",
    "value": "0",
    "key": "75"
  }
],
"score": "0.3797915"
},
],
"size": 2,
"total": 12
}
```

### 7.2.2 Search Gate Control Event Record

<b>API Endpoint</b>	<code>{{studio_base_url}}/EVENTHANDLER/triggerEventHistory/gateControlEventRecordQuery</code>
<b>Method</b>	POST
<b>Request Format</b>	JSON

Request Parameters	Name	Required	Type	Description
	current	Yes	Integer	Query results on page #. Start from 1.
	size	Yes	Integer	Number of results per page
	startDate	No	String	Search start date Format: yyyyMMdd_HH:mm:ss
	endDate	No	String	Search end date Format: yyyyMMdd_HH:mm:ss
	policyId	No	String	Policy unique ID
	deviceId	No	String	Device unique ID
	personId	No	String	Person unique ID
Response Parameters	Name	Required	Type	Description
	data		Array[EventRecord]	null
EventRecord	uuid		String	Event record unique ID
	eventType		String	Event type
	policyId		String	Policy unique ID
	policyType		String	Gate control policy type 0: General
	policyName		String	Policy name
	triggerDeviceId		String	Triggered device unique ID
	triggerDeviceSerial		String	Triggered device serial
	triggerTime		String	Triggered time Format: yyyy-MM-dd HH:mm:ss.SSS
	triggerTargets		Array[TargetInfo]	Triggered target (person group)
	triggerValues		String	Triggered value
	triggerPersonId		String	Triggered person unique ID
	triggerImgUrl		String	Triggered image URL
	targetImgUrl		String	Matched base image URL
	bklImgUrl		String	Background image URL
	triggerActionType		String	Access control type 0: Block, 1: Allow Notification type 2: Push

triggerActionTarget		String	Push address
triggerActionContent		String	Message Separated by commas
privilege		String	Privilege (Department ID)
idNumber		String	Person ID number
icNumber		String	Person document number
createUser		String	Create user
createTs		String	Create time
lastModUser		String	Last modified user
lastModTs		String	Last modified time
detect		String	Face coordinates
triggerImageRoid		String	Triggered zone ID
triggerImageType		String	Triggered structural type
desc		String	Event description
attributes		String	null
score		String	Matching score
<b>TargetInfo</b>	targetId	String	Feature ID
	targetValue	String	Feature value
<b>Sample Request</b>	<pre>{     "current": "1",     "size": "2",     "startDate": "20200601_00:00:00",     "endDate": "20200611_00:00:00",     "policyId": "",     "deviceId": "",     "personId": "" }</pre>		
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "success",     "data": [         {             "uuid": "Xn-D1e4nQc6dRuqZrvQdcw",             "id": "1"         }     ] }</pre>		

```
"eventType": "gateControlTriggerEvent",
"policyId": "1266270965512278018",
"policyType": "0",
"policyName": "SenseThunder 05927",
"triggerDeviceId": "1257879674839633922",
"triggerDeviceSerial": "SPS020STDC19G05927_0",
"triggerTime": "2020-06-03 16:53:54.979",
"triggerTargets": "[{\\"targetId\\":\\"0\\",\\\"targetValue\\":\\"1\\"}]",
"triggerValues": "",
"triggerPersonId": "1255",
"triggerImgUrl":
"http://hostserver/intersense//images/sensepass/20200603/20200603_2_f4742079256241
05b2a4162b3d1a3838.jpeg",
"targetImgUrl":
"http://hostserver/intersense//images/person/20200603/27/b3d87561d0382cea03b7e5720
00425ba.jpg",
"bkImgUrl": null,
"triggerActionType": "1,2",
"triggerActionTarget": "defaultActionTarget,defaultActionTarget",
"triggerActionContent": "defaultActionContent,defaultActionContent",
"privilege": "0",
"idNumber": "12345",
"icNumber": "",
"createUser": "Alice",
"createTs": "2020-06-03 16:48:48",
"lastModUser": "Alice",
"lastModTs": "2020-06-03 16:48:48",
"detect": null,
"triggerImageRoId": "",
"triggerImageType": "",
"desc": "{\"name\":\"Peter\",\"ic\":\"12345\",\"mobile\":\"\"}",
"attributes": null,
"score": "0.9787836"
},
{
"uuid": "UGitaMRCQdGbtX_T1bGoXg",
"eventType": "gateControlTriggerEvent",
"policyId": "1266270965512278018",
```

```
"policyType": "0",
"policyName": "SenseThunder 05927",
"triggerDeviceId": "1257879674839633922",
"triggerDeviceSerial": "SPS020STDC19G05927_0",
"triggerTime": "2020-06-03 16:41:38.088",
"triggerTargets": "[{\\"targetId\\":\\"0\\",\\"targetValue\\":\\"1\\"}]",
"triggerValues": "",
"triggerPersonId": "1255",
"triggerImgUrl":
"http://hostserver/intersense//images/sensepass/20200603/20200603_2_610f6932272640
23a029233ff08d35dd.jpeg",
"targetImgUrl":
"http://hostserver/intersense//images/person/20200603/27/b3d87561d0382cea03b7e5720
00425ba.jpg",
"bkImgUrl": null,
"triggerActionType": "1,2",
"triggerActionTarget": "defaultActionTarget,defaultActionTarget",
"triggerActionContent": "defaultActionContent,defaultActionContent",
"privilege": "0",
"idNumber": "12345",
"icNumber": "",
"createUser": "Alice",
"createTs": "2020-06-03 16:36:32",
"lastModUser": "Alice",
"lastModTs": "2020-06-03 16:36:32",
"detect": null,
"triggerImageRoId": "",
"triggerImageType": "",
"desc": "{\"name\":\"Peter\",\"ic\":\"12345\",\"mobile\":\"\"}",
"attributes": null,
"score": "0.9690521"
}
],
"size": 2,
"total": 41
}
```

### 7.2.3 Search Event Record

<b>API Endpoint</b>	{{studio_base_url}}/EVENTHANDLER/triggerEventHistory/eventRecordQuery			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	current	Yes	Integer	Query results on page #. Start from 1.
	size	Yes	Integer	Number of results per page
	startDate	No	String	Search start date Format: yyyyMMdd_HH:mm:ss
	endDate	No	String	Search end date Format: yyyyMMdd_HH:mm:ss
	policyId	No	Array[String]	Policy unique ID
	deviceId	No	Array[String]	Device unique ID
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		Array[EventRecord]	null
<b>EventRecord</b>	uuid		String	Event record unique ID
	eventType		String	Event type
	policyId		String	Policy unique ID
	policyType		String	Gate control policy type 0: General
	policyName		String	Policy name
	triggerDeviceId		String	Triggered device unique ID
	triggerDeviceSerial		String	Triggered device serial
	triggerTime		String	Triggered time Format: yyyy-MM-dd HH:mm:ss.SSS
	triggerTargets		Array[TargetInfo]	Triggered target (person group)
	triggerValues		String	Triggered value
	triggerPersonId		String	Triggered person unique ID
	triggerImgUrl		String	Triggered image URL

	targetImgUrl		String	Matched base image URL
	bkImgUrl		String	Background image URL
	triggerActionType		String	Access control type 0: Block, 1: Allow Notification type 2: Push
	triggerActionTarget		String	Push address
	triggerActionContent		String	Message Separated by commas
	privilege		String	Privilege (Department ID)
	idNumber		String	Person ID number
	icNumber		String	Person document number
	createUser		String	Create user
	createTs		String	Create time
	lastModUser		String	Last modified user
	lastModTs		String	Last modified time
	detect		String	Face coordinates
	triggerImageRoilId		String	Triggered zone ID
	triggerImageType		String	Triggered structural type
	desc		String	Event description
	attributes		String	null
	score		String	Matching score
<b>TargetInfo</b>	targetId		String	Feature ID
	targetValue		String	Feature value
<b>Sample Request</b>	<pre>{     "current": 1,     "size": 2,     "startDate": "",     "endDate": "",     "eventType": "",     "policyId": [],     "deviceId": [],     "personId": [],     "uuid": "" }</pre>			

	}
Sample Response	<pre>{     "code": "0000",     "msg": "success",     "data": [         {             "uuid": "Xn-D1e4nQc6dRuqZrvQdcw",             "eventType": "gateControlTriggerEvent",             "policyId": "1266270965512278018",             "policyType": "0",             "policyName": "SenseThunder 05927",             "triggerDeviceId": "1257879674839633922",             "triggerDeviceSerial": "SPS020STDC19G05927_0",             "triggerTime": "2020-06-03 16:53:54.979",             "triggerTargets": "[{\\"targetId\\":\\"0\\",\\\"targetValue\\":\\"1\\"}]",             "triggerValues": "",             "triggerPersonId": "1255",             "triggerImgUrl":                 "http://hostserver/intersense//images/sensepass/20200603/20200603_2_f474207925624105b2a4162b3d1a3838.jpeg",             "targetImgUrl":                 "http://hostserver/intersense//images/person/20200603/27/b3d87561d0382cea03b7e572000425ba.jpg",             "bkImgUrl": null,             "triggerActionType": "1,2",             "triggerActionTarget": "defaultActionTarget,defaultActionTarget",             "triggerActionContent": "defaultActionContent,defaultActionContent",             "privilege": "0",             "idNumber": "12345",             "icNumber": "",             "createUser": "Alice",             "createTs": "2020-06-03 16:48:48",             "lastModUser": "Alice",             "lastModTs": "2020-06-03 16:48:48",             "detect": null,             "triggerImageRoilId": "",             "triggerImageType": "",             "desc": "{\"name\":\"Peter\",\"ic\":\"12345\",\"mobile\":\"\"}"         }     ] }</pre>

```
"attributes": null,  
"score": "0.9787836"  
,  
{  
    "uuid": "UGitaMRCQdGbtX_T1bGoXg",  
    "eventType": "gateControlTriggerEvent",  
    "policyId": "1266270965512278018",  
    "policyType": "0",  
    "policyName": "SenseThunder 05927",  
    "triggerDeviceId": "1257879674839633922",  
    "triggerDeviceSerial": "SPS020STDC19G05927_0",  
    "triggerTime": "2020-06-03 16:41:38.088",  
    "triggerTargets": "[{\\"targetId\\":\\"0\\",\\\"targetValue\\":\\"1\\"}]",  
    "triggerValues": "",  
    "triggerPersonId": "1255",  
    "triggerImgUrl":  
        "http://hostserver/intersense//images/sensepass/20200603/20200603_2_610f6932272640  
23a029233ff08d35dd.jpeg",  
        "targetImgUrl":  
            "http://hostserver/intersense//images/person/20200603/27/b3d87561d0382cea03b7e5720  
00425ba.jpg",  
        "bkImgUrl": null,  
        "triggerActionType": "1,2",  
        "triggerActionTarget": "defaultActionTarget,defaultActionTarget",  
        "triggerActionContent": "defaultActionContent,defaultActionContent",  
        "privilege": "0",  
        "idNumber": "12345",  
        "icNumber": "",  
        "createUser": "Alice",  
        "createTs": "2020-06-03 16:36:32",  
        "lastModUser": "Alice",  
        "lastModTs": "2020-06-03 16:36:32",  
        "detect": null,  
        "triggerImageRoId": "",  
        "triggerImageType": "",  
        "desc": "{\"name\":\"Peter\",\"ic\":\"12345\",\"mobile\":\"\"}",  
    "attributes": null,  
    "score": "0.9690521"
```

	}
	],
	"size": 2,
	"total": 41
	}

## 7.3 Advanced Search Management

### 7.3.1 Search Entry/Exit Record by Date (Pagination)

<b>API Endpoint</b>	{{studio_base_url}}/EVENTHANDLER/triggerEventHistory/searchGateAccessRecordByDate			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	startDate	No	String	Search start date Format: yyyyMMdd_HH:mm:ss
	endDate	No	String	Search end date Format: yyyyMMdd_HH:mm:ss
	page	No	String	"" for the first page Page mark for last page and next page can be found in API response 10 records per page
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		Array[Record]	null
<b>Record</b>	eventRemark		String	Event record remark
	idnumber		String	Person ID number
	description		String	Event record description
	person_name		String	Person name
	privilege		String	Privilege (Department ID)
	dir		String	
	eventValidity		String	False recognition mark

				null: unmark 1: marked
dt		String	Timestamp Format: yyyy-MM-dd HH:mm:ss.SSS	
uid		String	Person unique ID	
score		String	Matching score	
targetImgUrl		String	Matched base image URL	
device_name		String	Device name	
event_type		String	Event type	
product_type		String	Triggered device product type ID	
device_serial		String	Triggered device serial	
triggerImgUrl		String	Triggered image URL	
bkImgUrl		String	Background image URL	
attributes		String	Attribute features	
did		String	Device unique ID	
icnumber		String	Person document number	
ts		String	Timestamp in GMT Format: yyyy-MM-ddTHH:mm:ss.SSSZ	
<b>Attribute</b>	conf	String	Confidence score	
	value	String	Attribute feature value	
	key	String	Attribute feature ID	
<b>Sample Request</b>	<pre>{   "startDate": "20200529_00:00:00",   "endDate": "20200529_23:59:59",   "page": "0029001013313235373837393637343833393633333932320a0008000001725f7126d6f07ffff ebf07fffffebedd2849ef70bb736f1653938cc3f4d0c0004" }</pre>			
<b>Sample Response</b>	<pre>{   "code": "0000",   "msg": "success",   "data": [     {       "eventRemark": null,       "idnumber": "666666",       "description": null,       "person_name": "Howard",     }   ] }</pre>			

```
"privilege": "0,0",
"dir": "0",
"eventValidity": null,
"dt": "2020-05-29 16:03:13.357",
"uid": "849",
"score": "0.9736898",
"targetImgUrl":
"http://hostserver/intersense//images/person/20200527/155/87597e870782ef14481168015da96f00.jpg",
"device_name": "SenseThunder-E Mini",
"event_type": "1",
"product_type": "13",
"device_serial": "SPS020STDC19G05927_0",
"triggerImgUrl":
"http://hostserver/intersense//images/sensepass/20200529/20200529_2_4a9cb60b49234cf1a21fcc35695ba03c.jpeg",
"bkImgUrl":
"http://hostserver/intersense//images/sensepass/20200529/20200529_2_fa7c7e75d7384ba2a67af956a1523934.jpeg",
"attributes": [
{
    "conf": "1",
    "value": "0",
    "key": "75"
},
],
"did": "1257879674839633922",
"icnumber": "",
"ts": "2020-05-29T08:03:13.357+0000"
},
{
    "eventRemark": null,
    "idnumber": "666666",
    "description": null,
    "person_name": "Howard",
    "privilege": "0,0",
    "dir": "0",
    "eventValidity": null,
```

```
"dt": "2020-05-29 16:04:12.133",
"uid": "849",
"score": "0.97532153",
"targetImgUrl":
"http://hostserver/intersense//images/person/20200527/155/87597e870782ef14481168015d
a96f00.jpg",
"device_name": "SenseThunder-E Mini",
"event_type": "1",
"product_type": "13",
"device_serial": "SPS020STDC19G05927_0",
"triggerImgUrl":
"http://hostserver/intersense//images/sensepass/20200529/20200529_2_319a71b3963544ffa
a800fe37995f2ca.jpeg",
"bkImgUrl":
"http://hostserver/intersense//images/sensepass/20200529/20200529_2_5c6e5daca1ad4da6
999be021d7a37dee.jpeg",
"attributes": [
{
    "conf": "1",
    "value": "0",
    "key": "75"
},
],
"did": "1257879674839633922",
"icnumber": "",
"ts": "2020-05-29T08:04:12.133+0000"
},
{
    "eventRemark": null,
    "idnumber": "666666",
    "description": null,
    "person_name": "Howard",
    "privilege": "0,0",
    "dir": "0",
    "eventValidity": null,
    "dt": "2020-05-29 16:06:19.684",
    "uid": "849",
    "score": "0.97794384",
```

```

        "targetImgUrl":  

"http://hostserver/intersense//images/person/20200527/155/87597e870782ef14481168015d  

a96f00.jpg",  

        "device_name": "SenseThunder-E Mini",  

        "event_type": "1",  

        "product_type": "13",  

        "device_serial": "SPS020STDC19G05927_0",  

        "triggerImgUrl":  

"http://hostserver/intersense//images/sensepass/20200529/20200529_2_bd8eb12369a5445b  

83eb577253a2cc6d.jpeg",  

        "bkImgUrl":  

"http://hostserver/intersense//images/sensepass/20200529/20200529_2_bf8b2c659d7a4ff9b  

5712c17e059c599.jpeg",  

        "attributes": [  

            {  

                "conf": "1",  

                "value": "0",  

                "key": "75"  

            }  

        ],  

        "did": "1257879674839633922",  

        "icnumber": "",  

        "ts": "2020-05-29T08:06:19.684+0000"  

    }  

],  

"lastPage":  

"0029001013313235373837393637343833393633333932320a0008000001725f7126d6f07fffff  

ebf07fffffebedd2849ef70bb736f1653938cc3f4d0c0004",  

"nextPage": null
}

```

### 7.3.2 Search Entry/Exit Record by Device (Pagination)

API Endpoint	{{studio_base_url}}/EVENTHANDLER/triggerEventHistory/searchGateAccessRecordByGate
Method	POST
Request Format	JSON

Request Parameters	Name	Required	Type	Description
	deviceId	Yes	String	Device unique ID
	startDate	No	String	Search start date Format: yyyyMMdd_HH:mm:ss
	endDate	No	String	Search end date Format: yyyyMMdd_HH:mm:ss
	page	No	String	"" for the first page Page mark for last page and next page can be found in API response 10 records per page
Response Parameters	Name	Required	Type	Description
	data		Array[Record]	null
Record				
	eventRemark		String	Event record remark
	idnumber		String	Person ID number
	description		String	Event record description
	person_name		String	Person name
	privilege		String	Privilege (Department ID)
	dir		String	
	eventValidity		String	False recognition mark null: unmark 1: marked
	dt		String	Timestamp Format: yyyy-MM-dd HH:mm:ss.SSS
	uid		String	Person unique ID
	score		String	Matching score
	targetImgUrl		String	Matched base image URL
	device_name		String	Device name
	event_type		String	Event type
	product_type		String	Triggered device product type ID
	device_serial		String	Triggered device serial
	triggerImgUrl		String	Triggered image URL
	bklImgUrl		String	Background image URL
	attributes		String	Attribute features
	did		String	Device unique ID
	icnumber		String	Person document number

	ts		String	Timestamp in GMT Format: yyyy-MM-ddTHH:mm:ss.SSSZ
<b>Attribute</b>	conf		String	Confidence score
	value		String	Attribute feature value
	key		String	Attribute feature ID
<b>Sample Request</b>	<pre>{   "deviceId": "1257879674839633922",   "startDate": "20200506_11:00:00",   "endDate": "20200506_11:59:59",   "page": "" }</pre>			
<b>Sample Response</b>	<pre>{   "code": "0000",   "msg": "success",   "data": [     {       "eventRemark": null,       "idnumber": null,       "description": "SPSE1588737142682wqpkfw",       "person_name": "",       "privilege": "0,0",       "dir": "0",       "eventValidity": null,       "dt": "2020-05-06 11:52:22.376",       "uid": "-1",       "score": "",       "targetImgUrl": null,       "device_name": "SenseThunder-E Mini",       "event_type": "-10",       "product_type": "13",       "device_serial": "SPS020STDC19G05927_0",       "triggerImgUrl":         "http://hostserver/intersense//images/sensepass/20200506/20200506_2_191acb956bca435898d88b3513e2ae97.jpeg",       "bkImgUrl":         "http://hostserver/intersense//images/sensepass/20200506/20200506_2_191acb956bca435898d88b3513e2ae97.jpeg",       "attributes": null,     }   ] }</pre>			

```
"did": "1257879674839633922",
"icnumber": null,
"ts": "2020-05-06T03:52:22.376+0000"
},
{
    "eventRemark": null,
    "idnumber": null,
    "description": null,
    "person_name": null,
    "privilege": "0,0",
    "dir": "0",
    "eventValidity": null,
    "dt": "2020-05-06 11:52:32.669",
    "uid": "0",
    "score": "0.0",
    "targetImgUrl": null,
    "device_name": "SenseThunder-E Mini",
    "event_type": "-1",
    "product_type": "13",
    "device_serial": "SPS020STDC19G05927_0",
    "triggerImgUrl":
"http://hostserver/intersense//images/sensepass/20200506/20200506_2_d0142927d01741f
7a0447755a262c3f4.jpeg",
    "bkImgUrl":
"http://hostserver/intersense//images/sensepass/20200506/20200506_2_dd3c26da35a441b
0b45f821d1c083de5.jpeg",
    "attributes": [
        {
            "conf": "1",
            "value": "36.021713",
            "key": "74"
        },
        {
            "conf": "1",
            "value": "0",
            "key": "75"
        }
    ],
}
```

```
"did": "1257879674839633922",
"icnumber": null,
"ts": "2020-05-06T03:52:32.669+0000"
},
{
    "eventRemark": null,
    "idnumber": null,
    "description": "",
    "person_name": "Jason",
    "privilege": "0,0",
    "dir": "0",
    "eventValidity": null,
    "dt": "2020-05-06 11:53:32.701",
    "uid": "0",
    "score": "0.0",
    "targetImgUrl": null,
    "device_name": "SenseThunder-E Mini",
    "event_type": "-1",
    "product_type": "13",
    "device_serial": "SPS020STDC19G05927_0",
    "triggerImgUrl":
"http://hostserver/intersense//images/sensepass/20200506/20200506_2_99c646ca28654a4
8a32ee756614f7084.jpeg",
    "bkImgUrl":
"http://hostserver/intersense//images/sensepass/20200506/20200506_2_2af735f0972545a9
8a5236034c348680.jpeg",
    "attributes": [
        {
            "conf": "1",
            "value": "36.24445",
            "key": "74"
        },
        {
            "conf": "1",
            "value": "0",
            "key": "75"
        }
    ],
}
```

	<pre>         "did": "1257879674839633922",         "icnumber": null,         "ts": "2020-05-06T03:53:32.701+0000"       }     ],     "lastPage": null,     "nextPage": null   } </pre>
--	---

### 7.3.3 Search Entry/Exit Record by Person (Pagination)

<b>API Endpoint</b>	{{studio_base_url}}/EVENTHANDLER/triggerEventHistory/searchGateAccessRecordByPerson			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
Request Parameters	Name	Required	Type	Description
	personId	Yes	String	Person unique ID
	startDate	No	String	Search start date Format: yyyyMMdd_HH:mm:ss
	endDate	No	String	Search end date Format: yyyyMMdd_HH:mm:ss
	page	No	String	"" for the first page Page mark for last page and next page can be found in API response 10 records per page
Response Parameters	Name	Required	Type	Description
	data		Array[Record]	null
	eventRemark		String	Event record remark
	idnumber		String	Person ID number
	description		String	Event record description
	person_name		String	Person name
	privilege		String	Privilege (Department ID)
	dir		String	
	eventValidity		String	False recognition mark

				null: unmark 1: marked
dt		String	Timestamp Format: yyyy-MM-dd HH:mm:ss.SSS	
uid		String	Person unique ID	
score		String	Matching score	
targetImgUrl		String	Matched base image URL	
device_name		String	Device name	
event_type		String	Event type	
product_type		String	Triggered device product type ID	
device_serial		String	Triggered device serial	
triggerImgUrl		String	Triggered image URL	
bklImgUrl		String	Background image URL	
attributes		String	Attribute features	
did		String	Device unique ID	
icnumber		String	Person document number	
ts		String	Timestamp in GMT Format: yyyy-MM-ddTHH:mm:ss.SSSZ	
<b>Attribut e</b>	conf	String	Confidence score	
	value	String	Attribute feature value	
	key	String	Attribute feature ID	
<b>Sample Request</b>	<pre>{   "personId": "849",   "startDate": "20200529_15:30:00",   "endDate": "20200529_15:39:59",   "page": "" }</pre>			
<b>Sample Respons e</b>	<pre>{   "code": "0000",   "msg": "success",   "data": [     {       "eventRemark": null,       "idnumber": "666666",       "description": null,       "person_name": "Howard",       "privilege": "0,0",       "score": 1     }   ] }</pre>			

```
"dir": "0",
"eventValidity": null,
"dt": "2020-05-29 15:37:07.769",
"uid": "849",
"score": "0.9211772",
"targetImgUrl":

"http://hostserver/intersense//images/person/20200527/155/87597e870782ef14481168015
da96f00.jpg",
"device_name": "SenseThunder-E Mini",
"event_type": "1",
"product_type": "13",
"device_serial": "SPS020STDC19G05927_0",
"triggerImgUrl":

"http://hostserver/intersense//images/sensepass/20200529/20200529_2_256018bf4c7f4367
8f2a960cc57f19b0.jpeg",
"bkImgUrl":

"http://hostserver/intersense//images/sensepass/20200529/20200529_2_9d672924d699465
db2c49cc93fabace5.jpeg",
"attributes": [
{
    "conf": "1",
    "value": "0",
    "key": "75"
},
],
"did": "1257879674839633922",
"icnumber": "",
"ts": "2020-05-29T07:37:07.769+0000"
},
{
    "eventRemark": null,
    "idnumber": "666666",
    "description": null,
    "person_name": "Howard",
    "privilege": "0,0",
    "dir": "0",
    "eventValidity": null,
    "dt": "2020-05-29 15:37:10.783",
```

```
"uid": "849",
"score": "0.93045866",
"targetImgUrl":
"http://hostserver/intersense//images/person/20200527/155/87597e870782ef14481168015
da96f00.jpg",
"device_name": "SenseThunder-E Mini",
"event_type": "1",
"product_type": "13",
"device_serial": "SPS020STDC19G05927_0",
"triggerImgUrl":
"http://hostserver/intersense//images/sensepass/20200529/20200529_2_218cba53df574c2
cac254df14dd6a98b.jpeg",
"bkImgUrl":
"http://hostserver/intersense//images/sensepass/20200529/20200529_2_660eed260b6e423
18bfe30a5f602525b.jpeg",
"attributes": [
{
    "conf": "1",
    "value": "0",
    "key": "75"
},
],
"did": "1257879674839633922",
"icnumber": "",
"ts": "2020-05-29T07:37:10.783+0000"
},
{
    "eventRemark": null,
    "idnumber": "666666",
    "description": null,
    "person_name": "Howard",
    "privilege": "0,0",
    "dir": "0",
    "eventValidity": null,
    "dt": "2020-05-29 15:37:40.209",
    "uid": "849",
    "score": "0.95346135",
```

```

        "targetImgUrl":  

"http://hostserver/intersense//images/person/20200527/155/87597e870782ef14481168015  

da96f00.jpg",  

        "device_name": "SenseThunder-E Mini",  

        "event_type": "1",  

        "product_type": "13",  

        "device_serial": "SPS020STDC19G05927_0",  

        "triggerImgUrl":  

"http://hostserver/intersense//images/sensepass/20200529/20200529_2_d614beeb87744a4  

f9a988265f68ba913.jpeg",  

        "bkImgUrl":  

"http://hostserver/intersense//images/sensepass/20200529/20200529_2_8e10467acba0496  

ea5d22298e8f0cd24.jpeg",  

        "attributes": [  

            {  

                "conf": "1",  

                "value": "36.672382",  

                "key": "74"  

            },  

            {  

                "conf": "1",  

                "value": "0",  

                "key": "75"  

            }  

        ],  

        "did": "1257879674839633922",  

        "icnumber": "",  

        "ts": "2020-05-29T07:37:40.209+0000"  

    }  

],  

"lastPage": null,  

"nextPage": null
}

```

### 7.3.1 Search Entry/Exit Record (No Pagination)

API Endpoint	{studio_base_url}}/EVENTHANDLER/triggerEventHistory/searchGateAccessRecordNoPage
--------------	--

<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	startDate	Yes	String	Search start date Format: yyyyMMdd_HH:mm:ss
	endDate	Yes	String	Search end date Format: yyyyMMdd_HH:mm:ss
	keyFlag	Yes	String	uid: Search records by personId did: Search records by devicId
	personId	No	String	Mandatory when keyFlag=uid Person unique ID
<b>Response Parameters</b>	Name	Required	Type	Description
	data		Array[Record]	null
<b>Record</b>	eventRemark		String	Event record remark
	idnumber		String	Person ID number
	description		String	Event record description
	person_name		String	Person name
	privilege		String	Privilege (Department ID)
	dir		String	
	eventValidity		String	False recognition mark null: unmark 1: marked
	dt		String	Timestamp Format: yyyy-MM-dd HH:mm:ss.SSS
	uid		String	Person unique ID
	score		String	Matching score
	targetImgUrl		String	Matched base image URL
	device_name		String	Device name
	event_type		String	Event type
	product_type		String	Triggered device product type ID
	device_serial		String	Triggered device serial
	triggerImgUrl		String	Triggered image URL

	bklImgUrl		String	Background image URL
	attributes		String	Attribute features
	did		String	Device unique ID
	icnumber		String	Person document number
	ts		String	Timestamp in GMT Format: yyyy-MM-ddTHH:mm:ss.SSSZ
<b>Attribut e</b>	conf		String	Confidence score
	value		String	Attribute feature value
	key		String	Attribute feature ID
<b>Sample Request</b>	<pre>{     "startDate": "20200529_15:30:00",     "endDate": "20200529_15:39:59",     "keyFlag": "uid",     "personId": "849" }</pre>			
<b>Sample Respons e</b>	<pre>{     "code": "0000",     "msg": "success",     "data": [         {             "eventRemark": null,             "idnumber": "666666",             "description": null,             "person_name": "Howard",             "privilege": "0,0",             "dir": "0",             "eventValidity": null,             "dt": "2020-05-29 15:37:07.769",             "uid": "849",             "score": "0.9211772",             "targetImgUrl": "http://hostserver/intersense//images/person/20200527/155/87597e870782ef14481168015da96f00.jpg",             "device_name": "SenseThunder-E Mini",             "event_type": "1",             "product_type": "13",             "device_serial": "SPS020STDC19G05927_0",         }     ] }</pre>			

```
"triggerImgUrl":  
"http://hostserver/intersense//images/sensepass/20200529/20200529_2_256018bf4c7f4367  
8f2a960cc57f19b0.jpeg",  
    "bkImgUrl":  
"http://hostserver/intersense//images/sensepass/20200529/20200529_2_9d672924d699465  
db2c49cc93fabace5.jpeg",  
    "attributes": [  
        {  
            "conf": "1",  
            "value": "0",  
            "key": "75"  
        }  
    ],  
    "did": "1257879674839633922",  
    "icnumber": "",  
    "ts": "2020-05-29T07:37:07.769+0000"  
},  
{  
    "eventRemark": null,  
    "idnumber": "666666",  
    "description": null,  
    "person_name": "Howard",  
    "privilege": "0,0",  
    "dir": "0",  
    "eventValidity": null,  
    "dt": "2020-05-29 15:37:10.783",  
    "uid": "849",  
    "score": "0.93045866",  
    "targetImgUrl":  
"http://hostserver/intersense//images/person/20200527/155/87597e870782ef14481168015  
da96f00.jpg",  
    "device_name": "SenseThunder-E Mini",  
    "event_type": "1",  
    "product_type": "13",  
    "device_serial": "SPS020STDC19G05927_0",  
    "triggerImgUrl":  
"http://hostserver/intersense//images/sensepass/20200529/20200529_2_218cba53df574c2  
cac254df14dd6a98b.jpeg",
```

```
"bkImgUrl":  
"http://hostserver/intersense//images/sensepass/20200529/20200529_2_660eed260b6e423  
18bfe30a5f602525b.jpeg",  
"attributes": [  
    {  
        "conf": "1",  
        "value": "0",  
        "key": "75"  
    }  
,  
    "did": "1257879674839633922",  
    "icnumber": "",  
    "ts": "2020-05-29T07:37:10.783+0000"  
,  
{  
    "eventRemark": null,  
    "idnumber": "666666",  
    "description": null,  
    "person_name": "Howard",  
    "privilege": "0,0",  
    "dir": "0",  
    "eventValidity": null,  
    "dt": "2020-05-29 15:37:40.209",  
    "uid": "849",  
    "score": "0.95346135",  
    "targetImgUrl":  
"http://hostserver/intersense//images/person/20200527/155/87597e870782ef14481168015  
da96f00.jpg",  
    "device_name": "SenseThunder-E Mini",  
    "event_type": "1",  
    "product_type": "13",  
    "device_serial": "SPS020STDC19G05927_0",  
    "triggerImgUrl":  
"http://hostserver/intersense//images/sensepass/20200529/20200529_2_d614beeb87744a4  
f9a988265f68ba913.jpeg",  
    "bkImgUrl":  
"http://hostserver/intersense//images/sensepass/20200529/20200529_2_8e10467acba0496  
ea5d22298e8f0cd24.jpeg",
```

```

"attributes": [
    {
        "conf": "1",
        "value": "36.672382",
        "key": "74"
    },
    {
        "conf": "1",
        "value": "0",
        "key": "75"
    }
],
"did": "1257879674839633922",
"icnumber": "",
"ts": "2020-05-29T07:37:40.209+0000"
},
],
"lastPage": "",
"nextPage": ""
}
]
}

```

## 7.4 HTTP Push

### 7.4.1 HTTP Push Notification

<b>API Endpoint</b>	Provided by third-party system.		
<b>Method</b>	POST		
<b>Request Format</b>	JSON		
<b>Request Parameters</b>	Name	Type	Description
	msgSource	String	Message source
	eventType	String	Event type E.g. gateControlTriggerEvent , gateMonitorTriggerEvent
	policyId	String	Policy unique ID
	policyType	String	Gate control policy type 0: General Monitor policy type

			3: Gate monitor
policyName	String	Policy name	
triggerTime	String	Event triggered time	
deviceId	String	Device unique ID	
deviceType	String	Device type ID	
deviceSerial	String	Device serial	
deviceName	String	Device name	
deviceTag	String	Device tag	
personId	String	Person unique ID	
triggerImgUrl	String	Triggered image URL	
targetImgUrl	String	Matched base image URL	
bklImageUrl	String	Background image URL	
similarity	String	Matching score	
triggerTargets	Array[TargetInfo]	Triggered targets	
triggerValues	String	Triggered values	
personName	String	Person name	
personTag	String	Person tag	
actionType	String	Notification type 2: HTTP push	
actionTarget	String	HTTP push address	
actionContent	String	Notification content	
desc	String	Event description	
idNumber	String	Person ID number	
icNumber	String	Person document number	
attributes	Array[Attribute]		
privilege	String	Privilege (Department ID)	
triggerImageRoId	String	Triggered zone ID	
triggerImageType	String	Triggered structural type	
detect	String	Face coordinates	
uuid	String	Event unique ID	
classId	String	The target groups that need to be matched at the same time share the same classId. Start from 0.	
TargetInfo	targetId	String	Target type ID 0: Person group

	canCleanMatchingThreshHold	Boolean	
	targetValue	String	Person group unique ID
	matchingThreshold	String	Matching threshold
	operator	String	2: Equal to 3: Not equal to
<b>Attribute</b>	conf	String	Confidence score
	value	String	Attribute feature value
	key	String	Attribute feature ID
<b>Sample Request</b>	<pre>{     "msgSource": "bizTrigger",     "eventType": "gateMonitorTriggerEvent",     "policyId": "1260521300258983937",     "policyType": "3",     "policyName": "Temperature Screening",     "triggerTime": "2020-05-13 18:52:40.868",     "deviceId": "1260520595813044226",     "deviceType": "15",     "deviceSerial": "SPS020STDC19E02393_0",     "deviceName": "Lobby",     "deviceTag": null,     "personId": "1",     "triggerImgUrl":         "http://hostserver/intersense//images/sensepass/20200513/20200513_2_1cce5b0fc33d4e0f9dea06827d2de67e.jpeg",     "targetImgUrl":         "http://hostserver/intersense//images/person/20200402/32/091e6a1bb66d720e51a71832cc904875.jpg",     "bkImageUrl":         "http://hostserver/intersense//images/sensepass/20200513/20200513_2_abda4f0639e445c3baa74a8f1d1ef0bf.jpeg",     "similarity": "0.9314568",     "triggerTargets": [         {             "classId": "0",             "targetId": "74",             "canCleanMatchingThreshHold": true,             "targetValue": "32",         }     ] }</pre>		

```
        "matchingThreshold": "",  
        "operator": "0"  
    },  
],  
"triggerValues": null,  
"personName": "Allen",  
"personTag": "",  
"actionType": "2",  
"actionTarget": "http://hostserver:1880/httppush",  
"actionContent": "defaultActionContent",  
"desc": "",  
"idNumber": "1234",  
"icNumber": "",  
"attributes": [  
    {  
        "conf": "1",  
        "value": "36.582077",  
        "key": "74"  
    },  
    {  
        "conf": "1",  
        "value": "0",  
        "key": "75"  
    }  
],  
"privilege": "0",  
"triggerImageRoild": "",  
"triggerImageType": "",  
"detect": null,  
"uuid": "_Mz-lhTyReO2FK_rVpZ8TA"  
}
```

## 8 Utility API

### 8.1 Utility API Return Code

Return Code	Return Code Description	Possible Causes	Solution Suggestion
0000	Success		
07002001	UPLOAD FILE FAILED	Update file failed	
07002101	VERIFY IMAGE QUALITY FAILED	Image quality detection failed	
07002102	BAD IMAGE QUALITY	Image quality does not meet the requirements	Image quality does not meet the requirements, change the image
07002103	SAVE FILE FAILED	Save file failed	
07002104	ILLEGAL IMAGE TYPE	Illegal image service type	Check image service type parameter
07002105	ILLEGAL FILE NAME	Illegal filename	Check if the file name has a format suffix
07002106	ILLEGAL FILE TYPE	Illegal file service type	Check file service type parameter
07002107	FILE OVER SIZE	File size exceeds the limit	
07002108	FILE IS BROKEN	File is broken	Re-upload
07002109	DETECT FACE FAILED	Calling the cog interface to detect a face failure	The image has no clear face, change the image
07002110	NO FACE DETECTED	No face detected	The image has no clear face, change the image
07004100	EXISTED TASK	Duplicate task	
07004101	NOT FOUND TASK	Task not found	
07004102	CREATE TASK FAILED	Create task failed	
07004103	UPDATE TASK FAILED	Update task failed	
07004104	REMOVE TASK FAILED	Remove task failed	
07004201	EXTRACT COMPRESS FILE FAILED	Tar file extract failed	Re-archive the file and upload again.
07004202	BATCH IMPORT FAILED	Batch import failed	
07004203	OVER MAXIMUN LIMIT	Batch import file exceed file limit	Separate the images to multiple files

## 8.2 File Management

### 8.2.1 Upload Image in Form-data

<b>API Endpoint</b>	{{studio_base_url}}/UTILITY/files/uploadImage			
<b>Method</b>	POST			
<b>Request Format</b>	form-data			
<b>Request Parameters</b>	Name	Required	Type	Description
	image	Yes	File	Image file
	serviceType	No	String	Image type person: face image device: device image map: map image temp: temp image (default value, this type of images will be cleaned up periodically)
	checkFace	No	Boolean	Whether to do face detection (true/false) Only take effect when serviceType=person
	faceEnlargeRate	No	Double	Face frame enlarge rate Only take effect when serviceType=person
<b>Response Parameters</b>	Name	Required	Type	Description
	data		String	Image URI
<b>Sample Response</b>	<pre>{   "code": "0000",   "msg": "success",   "data": "/images/person/20200311/93/eae3d34d7071a6bc54dbc4e44a47c643.jpg",   "success": true }</pre>			

### 8.2.2 Upload Image in Base64

<b>API Endpoint</b>	{{studio_base_url}}/UTILITY/files/uploadImageBase64			
<b>Format</b>	JSON			
<b>Method</b>	POST			
<b>Request Parameters</b>	Name	Required	Type	Description
	imageName	Yes	String	Image file name(With a suffix, such as .jpg, .png)
	imageContent	Yes	String	Image content in Base64
	serviceType	No	String	Image type

				person: face image device: device image map: map image temp: temp image (default value, this type of images will be cleaned up periodically)
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		String	Image URI
<b>Sample Request</b>	<pre>{     "imageContent": "{{image in Base64}}",     "imageName": "example.jpg",     "serviceType": "person" }</pre>			
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "success",     "data": "/images/person/20200311/93/eae3d34d7071a6bc54dbc4e44a47c643.jpg",     "success": true }</pre>			

## 8.3 Person Batch Import Management

### 8.3.1 Batch Import Person Profile

<b>API Endpoint</b>	{{studio_base_url}}/UTILITY/batchImportTask/task/importPerson			
<b>Method</b>	POST			
<b>Request Format</b>	form-data			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	file	Yes	MultipartFile	Person images in a .tar file  Image naming format: name+[space]+idNumber.jpg/png  E.g. "My_Name 1234.jpg"
	operatePerson	Yes	String	Operator
	taskAction	No	String	Person profile processing method 1: Create, 2: Update, 3: Create or Update (Upsert)
	groupIds	No	String	Group unique ID Add all the person to the specified group

	personTag	No	String	Person tag Add the person tag to all the person profile
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		String	Task unique ID, , generated by the system, be used to uniquely identify the batch import task

### 8.3.2 Delete Batch Import Task

<b>API Endpoint</b>	{{studio_base_url}}/UTILITY/batchImportTask/task/deactive			
<b>Method</b>	POST			
<b>Request Format</b>	form-data			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	taskIds	Yes	Array[String]	Task ID
	operatePerson	Yes	String	Operator
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		String	null
<b>Sample Request</b>	<pre>{   "taskIds": ["1267448087937626113"],   "operatePerson": "146" }</pre>			
<b>Sample Response</b>	<pre>{   "code": "0000",   "msg": "成功",   "data": null,   "success": true }</pre>			

### 8.3.3 List Batch Import Task

<b>API Endpoint</b>	{{studio_base_url}}/UTILITY/batchImportTask/task/pageList			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	Name	Required	Type	Description
	current	Yes	Integer	Query results on page #. Start from 1.
	size	Yes	Integer	Number of results per page
	startTime	No	String	Search start time Format: yyyy-MM-dd HH:mm:ss
	endTime	No	String	Search end time Format: yyyy-MM-dd HH:mm:ss
	taskId	No	String	Task ID
	taskName	No	String	Task name
<b>Response Parameters</b>	Name	Required	Type	Description
	data		String	Job ID
<b>Sample Request</b>	<pre>{     "current": 1,     "size": 10,     "startTime": "2020-06-17 12:00:00",     "endTime": "2020-06-17 12:30:00",     "taskId": "",     "taskName": "",     "sts": 0 }</pre>			
<b>Sample Response</b>	<pre>{     "data": [         {             "taskId": "1273107402463383554",             "taskName": "20200617121712_sample",             "taskType": 0,             ...         }     ] }</pre>			

```

    "remark": [
        {
            "fileName": "sample.tar",
            "fileSize": "986624",
            "fileType": "TAR",
            "subFileCount": 3,
            "sts": 0,
            "createTime": "2020-06-17 12:17:13",
            "createOperator": "2",
            "updateTime": "2020-06-17 12:17:16",
            "updateOperator": "2"
        }
    ],
    "size": 10,
    "total": 1,
    "code": "0000",
    "msg": "success"
}

```

#### 8.3.4 List Batch Import Task Execution Detail

<b>API Endpoint</b>	{{studio_base_url}}/UTILITY/batchImportTask/task/log/pageList			
<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	taskId	Yes	String	Task unique ID
	current	Yes	Integer	Query results on page #. Start from 1.
<b>Response Parameters</b>	<b>Name</b>	<b>Required</b>	<b>Type</b>	<b>Description</b>
	data		Array[TaskDetail]	
	taskLogId		String	Task log unique ID
<b>TaskDetail</b>	taskId		String	Task unique ID
	taskExecuteDetail		String	Task execution detail in JSON format string
	sts		String	Record processing status 0: Success, 1: Failed, 9: In Processing
	{ "taskId": "1273107402463383554", "current": 1, }			

	<pre>         "size": 10     } } </pre>
<b>Sample Response</b>	<pre> {     "data": [         {             "taskLogId": "1273107402845065218",             "taskId": "1273107402463383554",             "taskExecuteDetail": "{\"execution\":\"completed\",\"fileName\":\"Ben175213.jpg\",\"filePath\":\"/images/person/batchImport/20200617121712_test/Ben175213.jpg\",\"personId\":\"790\"}",             "sts": 0         },         {             "taskLogId": "1273107402849259521",             "taskId": "1273107402463383554",             "taskExecuteDetail": "{\"execution\":\"completed\",\"fileName\":\"John1583072196.jpg\",\"filePath\":\"/images/person/batchImport/20200617121712_test/John1583072196.jpg\",\"personId\":\"791\"}",             "sts": 0         },         {             "taskLogId": "1273107402849259522",             "taskId": "1273107402463383554",             "taskExecuteDetail": "{\"execution\":\"completed\",\"fileName\":\"Peter1583073034.jpg\",\"filePath\":\"/images/person/batchImport/20200617121712_test/Peter1583073034.jpg\",\"personId\":\"587\"}",             "sts": 0         }     ],     "size": 10,     "total": 3,     "code": "0000",     "msg": "success" } </pre>

### 8.3.5 Export Person Profile

<b>API Endpoint</b>	<code>{{studio_base_url}}/UTILITY/batchImportTask/task/exportPerson</code>
---------------------	--

<b>Method</b>	POST			
<b>Request Format</b>	JSON			
<b>Request Parameters (in JSON array)</b>	Name	Required	Type	Description
	personIds	Yes	Array[String]	Person unique ID
<b>Response Parameters</b>	Name	Required	Type	Description
	data		String	Task ID
<b>Sample Request</b>	[ "587", "790" ]			
<b>Sample Response</b>	(The API response is a tar file) Content-Type: application/octet-stream Content-Length: 61440 Content-Transfer-Encoding: binary Content-Disposition: attachment;fileName=export_1592372727842.tar			

## 9 Cognitive API

### 9.1 Face Management

#### 9.1.1 Get Image Quality by Image Base64

<b>API Endpoint</b>	{{studio_base_url}}/COGNITIVESVC/cognitive/face/getImageQualityByImageBase64			
<b>Method</b>	POST			
<b>Request Format</b>	form-data			
Request Parameters	Name	Required	Type	Description
	figureImageBase64	Yes	String	Image Base64
Response Parameters (data)	Name	Required	Type	Description
	face		Array[FaceInfo]	
<b>FaceInfo</b>	score		Double	Image quality score
	detect		Array[Array[Double]]	Face coordinates
	id		String	Face ID
<b>Sample Response</b>	<pre>{     "code": "0000",     "msg": "success",     "data": {         "face": [             {                 "score": 0.14015938,                 "detect": [                     [                         45.0,                         36.0                     ],                     [                         105.0,                         98.0                     ]                 ],                 "id": 0             }         ],         "success": true     } }</pre>			

