Hik-Connect for Teams (HikCentral Connect) OpenAPI V2.11.800

Developer Guide

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Chapter 1 Overview

1.1 Introduction

Hik Connect for Teams (HikCentral Connect), Hikvision's VSaaS (Video Security as a Service) platform for unified security management, provides open capabilities and APIs for the management of user accounts, resources, and alarms/events. Based on the open capabilities, the third-party manufacturers and developers are able to fast integrate different applications. This document introduces the application scenarios, APIs, and API calling methods in details.

Before starting integration, make sure you have acquired the following skills and knowledge.

- Master one or multiple common programming languages such as JAVA and C++.
- Gain the basic knowledge of video security, such as camera, PTZ control, and alarm.

For getting started, you are recommended to read this manual in the following order to help you fast learn the available capabilities and APIs.

1. Take a glance at the terms and definitions in **_Terms and Definitions_** .
2. See open capabilities in **_Open Capabilities_** for reference.
3. See API calling flows and typical applications in **_Typical Applications_** .
4. Check the APIs to be used based on your service needs.
5. See API calling rules, signature and authentication, and response rules in **_Protocol Summary_** .
6. See API reference to get the request URI, request parameters, and response parameters in **_API Reference_** .

1.2 Open Capabilities

The open capabilities of HikCentral Connect for application integration include system, resource, alarm, and video.

1.2.1 System Capabilities

System capabilities are about services concerning several platform operations and login including login authentication, getting platform and user information, getting streaming token, etc.
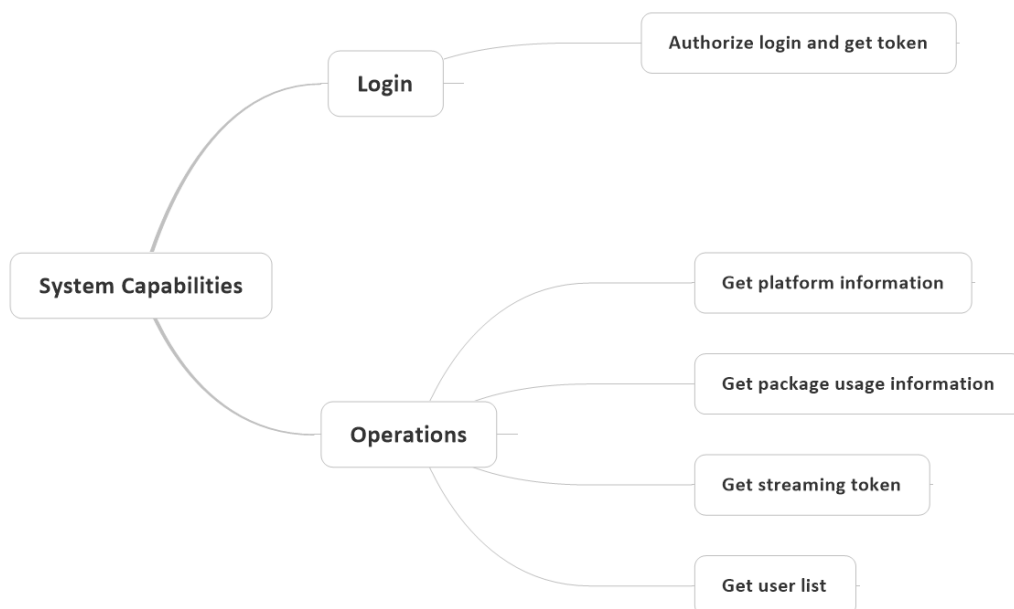
Figure 1-1 System Capabilities

1.2.2 Alarm Capabilities

Alarm capabilities are about services such as getting alarm rules, editing alarm rules, subscribing events, and getting alarm messages.

Note

For alarm types that can be received, see details in ***Alarm Type*** .
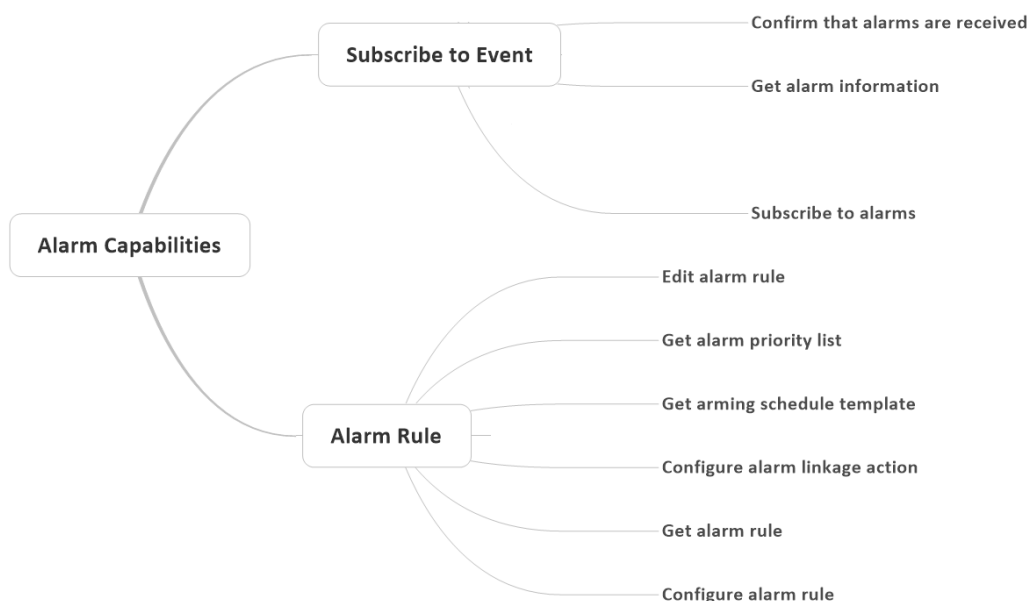
Figure 1-2 Alarm Capabilities

Note

- If you get a message via ***POST /api/hccgw/alarm/v1/mq/messages*** and confirm that you have received the message via ***POST /api/hccgw/alarm/v1/mq/messages/complete*** , you will no longer be able to get the message even if you call the API again.
- The message can be stored for three days by default.
- It is recommended that you call the two APIs of getting alarm messages and confirming that you have received the messages every 500ms. Make sure that you start to time the interval after you have finished calling the API of confirming that you have received the messages.

1.2.3 Resource Capabilities

Resource capabilities are about services concerning getting device information including area information, camera information, alarm information, etc.
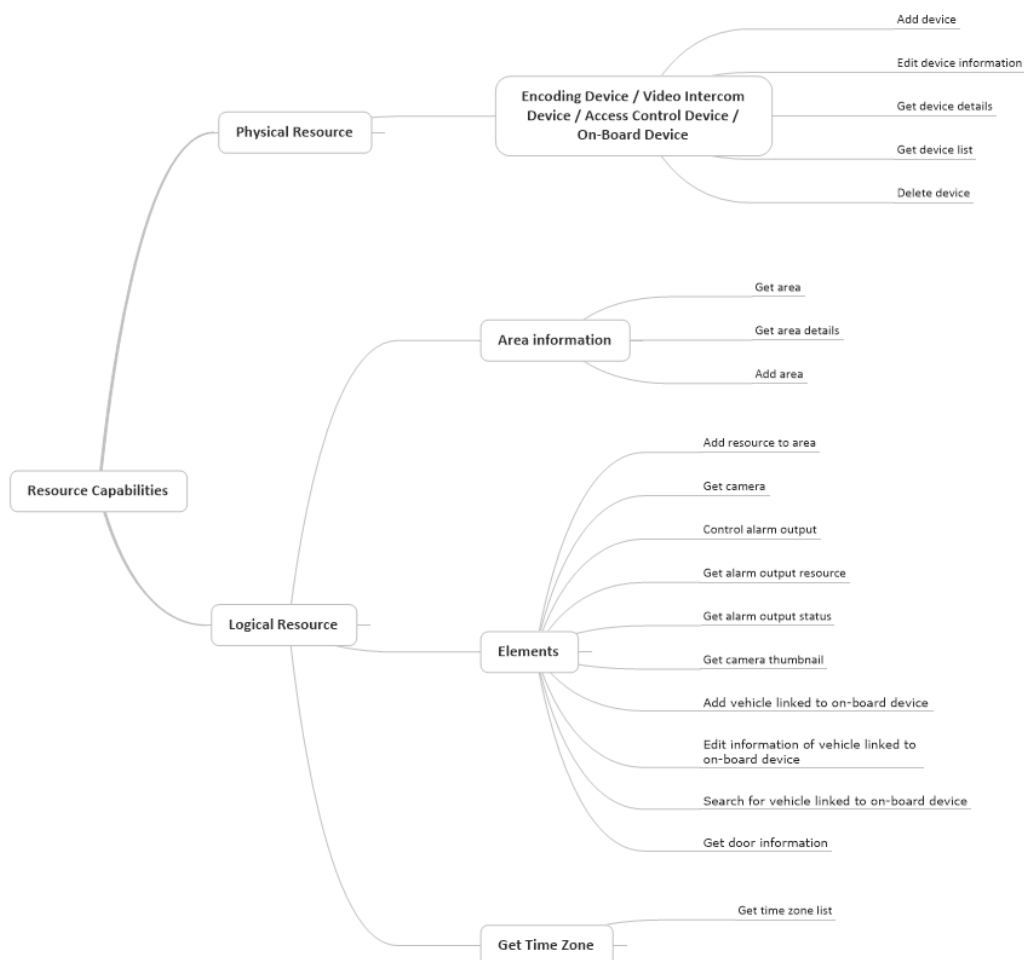
Figure 1-3 Resource Capabilities

1.2.4 Video Capabilities

Video capabilities are about services including getting recording schedule templates and getting playback addresses.

Figure 1-4 Video Capabilities

Note

Currently no-plugin video playing is only supported in Singapore, North America, South America, and Europe. It is not supported in India or Russia.

1.2.5 Message Capabilities

Message capabilities are about services including subscribing to messages, unsubscribing from messages, getting messages, etc.

Figure 1-5 Message Capabilities

1.2.6 Person Management Capabilities

Person management capabilities include getting department list, adding/deleting persons, updating basic information of persons, viewing information of single person, searching for person list, collecting/updating fingerprints, collecting/updating cards, updating PIN code, updating face pictures, and fast adding persons.
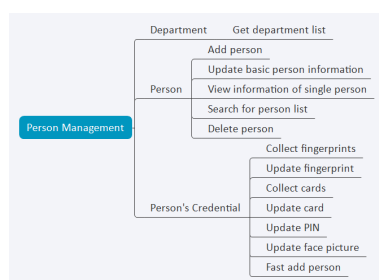
Figure 1-6 Person Management Capabilities

1.2.7 Video Intercom Capabilities

Video intercom capabilities are about services including building/room management, resident management, temporary pass management, and call management.
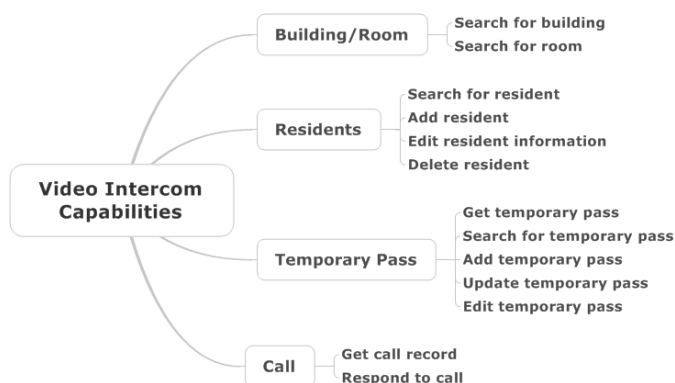
Figure 1-7 Video Intercom Capabilities

1.2.8 Access Control Capabilities

Access control capabilities include opening door remotely, getting Bluetooth encryption information, searching for card swiping records, and applying person's access level.
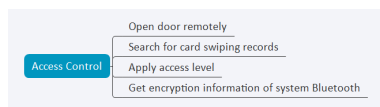
Figure 1-8 Access Control Capabilities

1.2.9 On-Board Monitoring Capabilities

On-board monitoring capabilities are about services including managing on-board devices and vehicles linked to on-board device, subscribe to and get alarms and messages, etc.
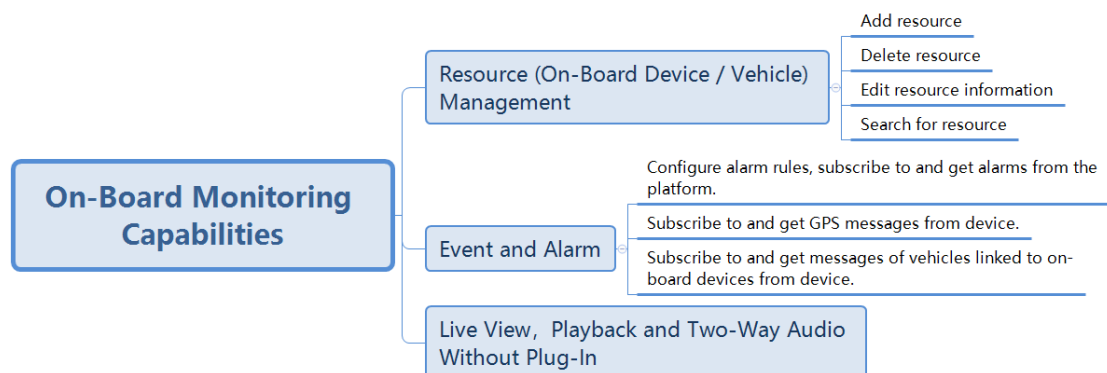
Figure 1-9 On-Board Monitoring Capabilities

ℹ️ **Note**

- Each on-board device and each vehicle are in one-to-one correspondence. An on-board device cannot be linked to multiple vehicles.
- Messages are raw information uploaded by device. Alarms are messages processed by alarm rules on the platform.
- You can subscribe to and get alarms of vehicles linked to on-board devices (***Alarm Type***). See details of API calling flow in ***Subscribe to and Get Alarms*** .
- You can subscribe to and get messages of vehicles linked to on-board devices (***Message Type***). See details of API calling flow in ***Subscribe to and Get Messages*** .
- The information of a vehicle linked to an on-board device includes the license plate No., driver's name, driver's phone No., vehicle type, annotations, and linked on-board device serial No.
- Live view, playback, and two-way audio without plug-in are all developed via the JSSDK toolkit. For two-way audio with on-board devices, you should enter 1 as the camera channel No.

1.2.10 Attendance Capabilities

The attendance capabilities involve the report exporting service, including searching for Total Time Card.

Figure 1-10 Attendance Capabilities

1.3 Terms and Definitions

Term	Description
OpenAPI	The publicly available APIs (application programming interfaces) that provide developers with programmatic access to proprietary software applications or web services.
Hik Connect for Teams	A video security management platform.
HTTP Method	A set of request methods defined by HTTP to indicate the desired action to be performed for a given resource. The useful methods include GET (get resources), PUT (set or update resources), POST (add or search resources), and DELETE (delete resources).
header (Request Header)	The supplemental data at the beginning of a request data block, usually in key-value pairs. For example, "Accept:text/plain".
path	HTTP request path, which follows the domain name or IP address (port No.). For example, if the request address is "www.example.com/artemis/api", then the path refers to "/artemis/api".
query	The parameters in the request address. For example, in the address "www.example.com/artemis/api?a=b&c=d", the queries are "a" and "c" and their values are "b" and "d" respectively.
bodyForm	The parameters in key-value pairs in the request body sent by POST method.
AK	Access key, which relates with the secret access key. They are used in pair to encrypt the signature in the request. It refers to **appKey** in this manual.
SK	Secret access key, which is used to mark the sender and prevent the request from being modified during signature encryption. It is used together with the access key and refers to **appSecret** in this manual.
Message	Refers to the content uploaded by the device actively when there is no external trigger source.
Alarm	Refers to the content uploaded by the device when the configured alarm rules are triggered.

1.4 Update History

Summary of Changes in Version 2.11.800_Feb., 2025

1. In ***Video-Related Services*** :
   - Extended the request and response parameters for ***POST /api/hccgw/video/v1/live/address/get*** ;
   - Added the API of searching for playback segments: ***POST /api/hccgw/video/v1/record/element/search*** ;
   - Added the API of triggering the standard MP4 recording storage function of device, and generating the download URL: ***POST /api/hccgw/video/v1/video/save*** ;
   - Added the API of getting the video recording status and downloading URL: ***POST /api/hccgw/video/v1/video/download/url*** .
2. In ***On-Board Monitoring Services*** , added 10 driver related APIs:
   - Batch search for driver information: ***POST /api/hccgw/vehicle/v1/driver/batchquery*** ;
   - Add driver: ***POST /api/hccgw/vehicle/v1/driver/add*** ;
   - Edit driver: ***POST /api/hccgw/vehicle/v1/driver/update*** ;
   - Batch delete drivers: ***POST /api/hccgw/vehicle/v1/driver/batchdel*** ;
   - Batch search for driver group information: ***POST /api/hccgw/vehicle/v1/driverGroup/batchquery*** ;
   - Add driver group: ***POST /api/hccgw/vehicle/v1/driverGroup/add*** ;
   - Edit driver group: ***POST /api/hccgw/vehicle/v1/driverGroup/update*** ;
   - Batch delete driver groups: ***POST /api/hccgw/vehicle/v1/driverGroup/batchdel*** ;
   - Apply driver's face pictures: ***POST /api/hccgw/vehicle/v1/driverFace/distribution*** ;
   - Search for the applying status of driver's face picture: ***POST /api/hccgw/vehicle/v1/driverFace/status/query*** .
3. Fixed some bugs in APIs, object descriptions, data dictionary, etc.

Summary of Changes in Version 2.11.0_Nov., 2024

1. Added the API of transmitting ISAPI protocol transparently (parameters transparently transmitted directly from OpenAPI to Hik-Connect): ***POST /api/hccgw/proxy/v1/isapi/proxypass*** ;
   Added the API of getting alarm input status (parameters transparently transmitted directly from OpenAPI to Hik-Connect): ***POST /api/hccgw/proxy/v1/areas/alarminputs/status/get*** ;
2. Added the API of getting person's QR code: ***POST /api/hccgw/person/v1/persons/qrcode*** ;
3. Added the API of getting the vehicle ACC status: ***POST /api/hccgw/resource/v1/accstatus/search*** ;
4. Added 3 APIs of ***Alarm Subscription (V2)*** and added the corresponding events ***Alarm Type (V2)*** :
   - Added APIs of subscribing to events: ***POST /api/hccgw/combine/v1/mq/subscribe*** ;
   - Added APIs of pulling events: ***POST /api/hccgw/combine/v1/mq/messages*** ;
   - Added APIs of confirming events are received: ***POST /api/hccgw/combine/v1/mq/messages/complete*** ;

5. Added 4 types of event messages: ***Event Message*** ;
6. Corrected and adjusted ***Alarm Type*** and ***Message Type*** ;
7. Corrected several object descriptions.

Summary of Changes in Version 6.2.1_Apr., 2024

1. Extended ***AlarmMsg*** and added ***ANPRInfo*** , ***PictureInfo*** , and ***PlateRect*** .
2. Added ***Attendance Capabilities*** and a corresponding typical application ***Search for Attendance Data*** :
   - added the API of searching for Total Time Card ***POST /api/hccgw/attendance/v1/report/totaltimecard/list*** ;
   - added the time/date format types ***Date Format Type*** , ***Time Format Type*** , and ***Time Duration Format Type*** ;
   - added the object description of Total Time Card report data ***TotalTimeCardReportData*** .

Summary of Changes in Version 6.2.0_Mar., 2024

1. Extended ***Person Management Capabilities*** and added relevant typical applications ***Add Person*** and ***Update Fingerprint/Card Information*** :
   - extended request parameters for the API of getting department list ***POST /api/hccgw/person/v1/groups/search*** ;
   - added the API of adding person on the platform ***POST /api/hccgw/person/v1/persons/add*** ;
   - added the API of deleting person ***POST /api/hccgw/person/v1/persons/delete*** ;
   - added the API of updating person's basic information ***POST /api/hccgw/person/v1/persons/update*** ;
   - added the API of updating person's face picture ***POST /api/hccgw/person/v1/persons/photo*** ;
   - added the API of collecting fingerprint by device ***POST /api/hccgw/person/v1/persons/fingercollect*** ;
   - added the API of updating person's fingerprint information ***POST /api/hccgw/person/v1/persons/updatefingers*** ;
   - added the API of collecting card by device ***POST /api/hccgw/person/v1/persons/cardcollect*** ;
   - added the API of updating person's card information ***POST /api/hccgw/person/v1/persons/updatecards*** ;
   - added the API of updating person's PIN code information ***POST /api/hccgw/person/v1/persons/updatepincode*** ;
   - added the API of viewing information of a single person ***POST /api/hccgw/person/v1/persons/get*** ;
   - added the API of fast adding a person ***POST /api/hccgw/person/v1/persons/quick/add*** ;
   - added the API of searching for person list ***POST /api/hccgw/person/v1/persons/list*** .
2. Extended ***Access Control Capabilities*** and added the typical application ***Apply Access Level*** :
   - added the API of searching for card swiping records ***POST /api/hccgw/acs/v1/event/certificaterecords/search*** ;
   - added the API of searching for access level list ***POST /api/hccgw/acspm/v1/accesslevel/list*** ;

- added the API of getting access level applying information by specifying person ID *POST /api/hccgw/acspm/v1/maintain/overview/person/{id}/elementdetail* ;
- added the API of assigning access level by person *POST /api/hccgw/acspm/v1/accesslevel/person/add* ;
- added the API of removing access level by person *POST /api/hccgw/acspm/v1/accesslevel/person/delete* ;
- added the API of modifying access level by person *POST /api/hccgw/acspm/v1/accesslevel/person/modify* .

3. Added the typical application *Add Resident* , *Update Resident* , and *Add Temporary Pass* :
Modified the request parameter for the API of adding temporary passes *POST /api/hccgw/vims/v1/tempauth/add* and API of updating temporary passes *POST /api/hccgw/vims/v1/tempauth/update* .
4. Added authentication events in *Alarm Type* and authentication events *Message Type* .
5. Added error codes in *Status and Error Code* .

Summary of Changes in Version 6.0.200_Nov., 2023

1. Extended the response parameters and the corresponding response message for *POST /api/hccgw/resource/v1/device/capturePic* and *POST /api/hccgw/resource/v1/areas/cameras/thumbnail/get* :
added a response parameter **isEncrypted** (whether the picture is encrypted).
2. Extended error codes for *openAPI Errors* :
Added OPEN000501, OPEN000502, OPEN000503, OPEN000504, OPEN000505, OPEN000510, OPEN000511, OPEN000550, OPEN000552, OPEN000554, OPEN000555, and OPEN000556.

Summary of Changes_June., 2023

1. Extended the request parameters and the corresponding request message for *POST /api/hccgw/resource/v1/devices/get* :
added a request parameter **areaID** (area ID);
extended the description for the request parameter **deviceCategory**.
2. Added an API for synchronously refreshing device status: *POST /api/hccgw/resource/v1/device/{deviceId}/refresh* .
3. Extended the response parameters and the corresponding response message for *POST /api/hccgw/alarm/v1/alarmrules/add* :
added a response parameter **data** and the corresponding object description *AlarmRuleOperation* .
4. Extended the response parameters and the corresponding response message for *POST /api/hccgw/alarm/v1/alarmrules/update* :
added a response parameter **data** and the corresponding object description *AlarmRuleOperation* .
5. Extended the response parameters and the corresponding response message for *POST /api/hccgw/alarm/v1/alarmlinkage/add* :
added a response parameter **data** and the corresponding object description *AlarmLinkage* .
6. Added an error code **OPEN000031** and modified **OPEN000006** in *Status and Error Code* .

Summary of Changes_May., 2023

1. Extended the time threshold from an hour to 2 days for auto-canceling the alarm or message subscription:
   Subscribe to and Get Alarms ;
   Subscribe to and Get Messages .
2. Added a validity for the response parameter **captureUrl**: *POST /api/hccgw/resource/v1/device/capturePic* .
   Added a validity for the response parameter **pictureURL**: *POST /api/hccgw/resource/v1/areas/cameras/thumbnail/get* .
   Added a validity for the response parameter **url**: *POST /api/hccgw/resource/v1/picture/uploadparam/get* .
   Added a validity for the parameter **URL**: *AlarmFile* .
   Added a validity for the parameter **url**: *Attachment* .
3. Extended the response parameters and extended the corresponding response message:
   POST /api/hccgw/resource/v1/areadetail/get :
   added a response parameter **areaPath** (detailed path starting from the origin area to the current area) to *BriefArea* .
4. Added a request parameter **reqNumber** (information volume per request) and added a response message: *POST /api/hccgw/alarm/v1/mq/messages* .
5. Added an API for getting the list of alarm logs: *POST /api/hccgw/alarm/v1/alarmlog* .
6. Extended the description for the request parameter **eventType**: *POST /api/hccgw/rawmsg/v1/mq/subscribe* .
7. Added an event type **100657** (Leaving Queue Detection): *Alarm Type* .
8. Added 2 parameters **currentEvent** (whether it is real-time alarm) and **queueRelatedInfo** (queuing-alarm related information): *AlarmMsg* .
9. Extended the description of **enable**: *ImportToArea* .
10. Added 6 error codes (**OPEN000024, OPEN000025, OPEN000026, OPEN000027, OPEN000028,** and **OPEN000029**): *openAPI Errors* .

Summary of Changes in Version 1.2.1_Mar., 2023

1. Added request frequency limit as an API rule and specifies **Content-Type** as application/json for data format: *API Rules* .
2. Added a response parameter **areaDomain** for *GET /api/hccgw/platform/v1/streamtoken/get* .
3. Added a request parameter **deleteVehicle** for *POST /api/hccgw/resource/v1/devices/delete* .
4. Added a response parameter **failedResultList** for *POST /api/hccgw/vims/v1/person/add* .
5. Extended the description for the parameter **includeSubArea**:
   POST /api/hccgw/resource/v1/areas/cameras/get ;
   POST /api/hccgw/resource/v1/areas/alarminputs/get ;
   POST /api/hccgw/resource/v1/areas/alarmoutputs/get ;
   POST /api/hccgw/resource/v1/areas/doors/get .
6. Added an API for capturing pictures by camera channel: *POST /api/hccgw/resource/v1/device/capturePic* .

7. Added an API for deleting resources from an area by resource IDs: ***POST /api/hccgw/ resource/v1/areas/resources/delete*** .
8. Added an API for getting the alarm input status: ***POST /api/hccgw/resource/v1/areas/ alarminputs/status/get*** .
9. Added an API for ISAPI protocol transmission: ***POST /api/hccgw/video/v1/isapi/proxypass*** .
10. Added an API for getting door information: ***POST /api/hccgw/resource/v1/areas/doors/get*** .
11. Added APIs of on-board monitoring services:
    POST /api/hccgw/resource/v1/areas/vehicles/add ;
    POST /api/hccgw/resource/v1/areas/vehicles/{id}/update ;
    POST /api/hccgw/resource/v1/areas/vehicles/get ;
    POST /api/hccgw/resource/v1/picture/uploadparam/get .
12. Added an alarm main category **alarmCategoryDriving** (On-Board Monitoring) and 2 alarm sub categories **alarmSubCategoryMobileDevice** (On-Board Device) and **alarmSubCategoryVehicle** (Vehicle Linked to On-Board Device): ***Alarm Category*** .
    Added a list of alarm types for on-board monitoring: ***Alarm Type*** .
    Added **vehicle** (Vehicle Linked to On-Board Device) and **mobileDevice** (On-Board Device) for ***Alarm Source*** .
    Added 2 resource types **vehicle** (Vehicle Linked to On-Board Device) and **door**: ***Resource Type*** .
    Added 2 device categories **accessControllerDevice** and **videoIntercomDevice**: ***Device Category*** .
    Added a list of message types for on-board monitoring: ***Message Type*** .
13. Added a parameter **relatedVehicleInfo** for ***AddDeviceResponse*** .
    Added values of **type** and deleted **suffixName** for ***AlarmFile*** .
    Added values of **fileContent** for ***AlarmFileInfo*** .
    Added a parameter **vehicleRelatedInfo** (***VehicleRelatedInfo***) for ***AlarmMsg*** and ***DataBean*** .
    Added a parameter **abilitySet** (***Capability Set***) and values of **online** for ***CameraInfo*** .
    Added parameters **uuid**, **update**, and **video** to ***Event(1)*** .
    Added two parameters **doorChannel** and **relatedVehicleInfo** to ***GetDeviceInfo*** .
14. Added object descriptions: ***DoorChannel*** ; ***GPSInfo*** ; ***VehicleInfo(2)*** ; ***VehicleRelatedInfo*** .
    Changed the object description **Picture** to ***Attachment*** , and extended the parameter **url**.
    Modified the parameter **groupId** for ***PersonDTO*** .
    Extended ***VehicleInfo(3)*** .
15. Added error codes to ***Internal Errors*** and ***openAPI Errors*** .

Summary of Changes in Version 1.2_Dec., 2022

Added message-related services, video intercom services, and access control services. See details in ***Message-Related Services*** , ***Video Intercom Services*** , and ***Access Control Services*** .

Summary of Changes in Version 1.1_Aug., 2022

New document.

Chapter 2 Getting Started

1. Get the Hik Connect for Teams server address and register an account.

Country/Region	Server Address
Russia	https://hikcentralconnectru.com
Singapore/India	https://isgp.hikcentralconnect.com
Europe	https://ieu.hikcentralconnect.com
South America	https://isa.hikcentralconnect.com
North America	https://ius.hikcentralconnect.com

2. Obtain the AK and SK from the technical support by providing your Hik Connect for Teams account.

[i] **Note**

Make sure you properly keep the AK and SK. Once they are leaked, contact the technical support to get new AK and SK.

3. Request for the token by providing the AK and SK: ***POST /api/hccgw/platform/v1/token/get*** .
4. Call other APIs by providing the token and other parameters as needed.

Chapter 3 Protocol Summary

3.1 API Rules

Name	Description
Transmission Protocol	HTTPS is adopted to ensure secure transmission.
Request URL	Format of request URL: https://{ hostname }:hostname:{port}/{ uri } • **hostname**: the IP address or domain name of Hik Connect for Teams. • **port**: the port No. for accessing Hik Connect for Teams. • **uri**: the URI of the API. See details in **_API Reference_** .
Request Method	POST/GET.
Data Format	JSON format for both request and response messages. Supports application/json as Content-Type.
Character Encoding	UTF-8.
Security Authentication	Security authentication based on AK/SK that is required before calling APIs.
Permission Control	Only those APIs with calling permission can be called successfully.
Certificate Requirement	Not required currently.
Response Rules	See details in **_Response Rules_** .
Request Frequency	No more than 5 times are allowed for request per second.

3.2 Signature and Authentication

The APIs in this document use AK/SK authentication.

Make sure you have applied for and obtained the AK and SK from the technical support. You can call the login API **_POST /api/hccgw/platform/v1/token/get_** by using the AK and SK to get the authentication token. The validity period of the token is 7 days, within which you can call the login API repeatedly to refresh the token so that the remaining validity period will be restored to 7 days again.

The token (the "**Token**" parameter) should be transmitted in the request Headers for calling other APIs.

Example
Get the Platform Information
Request address: http://www.example.com/api/hccgw/platform/v1/systemproperties

HTTP method: GET
Headers:

```
Accept: application/json, text/plain, */*
Accept-Encoding: gzip, deflate, br
Accept-Language: zh-CN,zh;q=0.9
Cache-Control: no-cache
Connection: keep-alive
Content-Type: application/json;charset=utf-8
Token: hcc.vh5hb9q495qjjei71g3pdmrjslo5wyti
```

Request

```
{
}
```

Response

```
{
  "data": {
    "systemGUID": "fe436da09dca4e46996c1178f06c7911"
  },
  "errorCode": "0"
}
```

3.3 Response Rules

The response returned after calling APIs contains the response message and status/error code.

Response Message

The response message is in JSON format and encoded by UTF-8 rule. It consists of multiple output parameters, and the parameters are named by camel case. Refer to the parameter description below.

```
{
  "errorCode": //Status/error code.
  "message": //Error description (not returned for success).
  "data"://Returned data in details.
}
```

Status/Error Code

The status or error code will be returned in the response message. The status code is 0 for success and other values for failure. Refer to ***Status and Error Code*** for details.

Example

Success

```
{
  "data": {
    "accessToken": "hcc.vh5hb9q495qjjei71g3pdmrjslo5wyti",
```

```
  "expireTime": 1655193135,
  "userId": "8a7485aa7f209dd5017f2141adff0019"
 },
 "errorCode": "0"
}
```

Example

Failure

```
{
 "message": "SECRET_KEY_NOT_EQUALS{OPEN300002}",
 "errorCode": "OPEN300002"
}
```

Chapter 4 Typical Applications

4.1 Manage Resources

The document provides a full set of APIs to manage resources including devices, areas, cameras, alarm inputs, alarm outputs and other resources. For example, the APIs can be used to obtain resource indexCode and perform operations on resources.
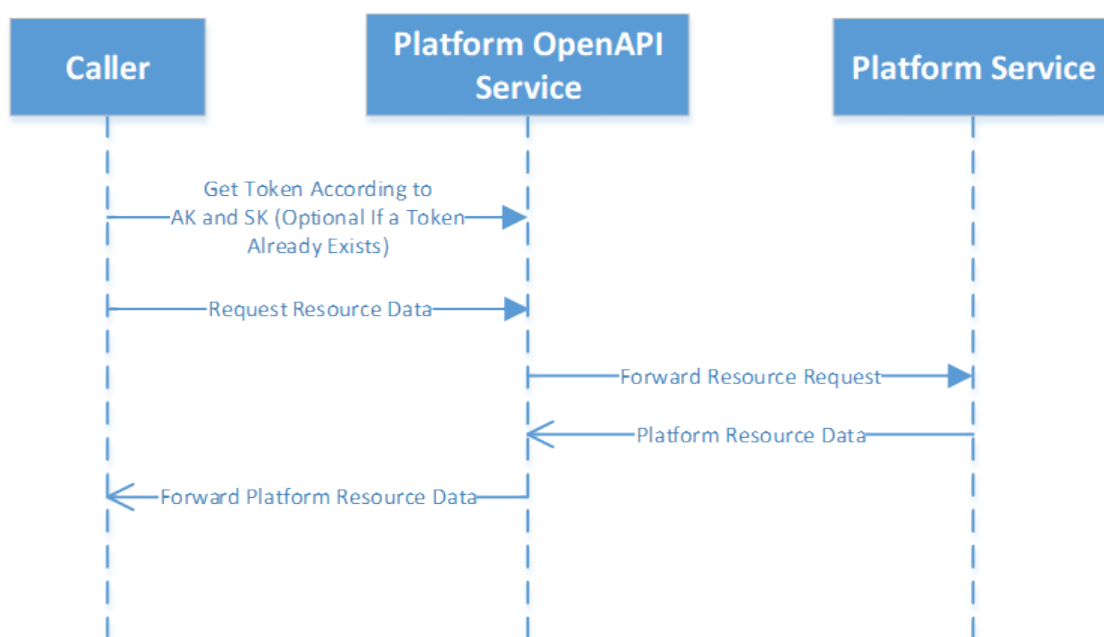
Figure 4-1 Sequence Diagram of Getting Resource Information

$\boxed{\mathbf{i}}$**Note**

- By calling physical resource APIs, you can obtain the information of the physical devices, including single-resource information and all-resource information.
- By calling logical resource APIs, you can obtain site information, root area information, subordinate organization information of parent areas, single-area information, all-area information, and detailed area information. Camera information, as a kind of logical resource added to areas, is part of the area information.

4.2 Subscribe to and Get Alarms

The document provides a full set of APIs to subscribe to alarms and get alarm information.
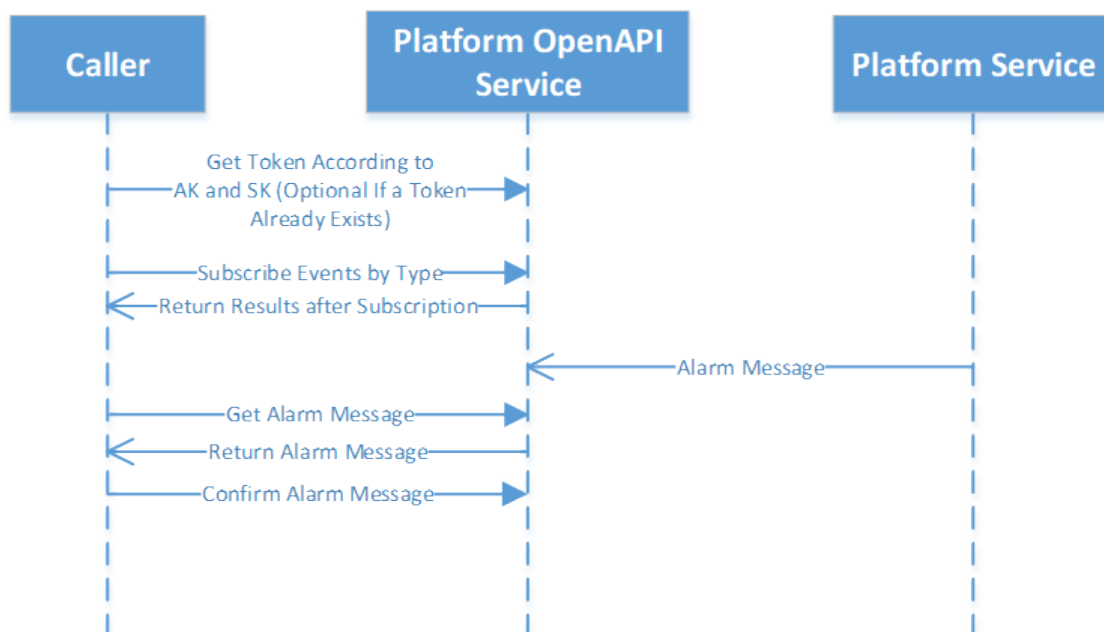
Figure 4-2 Sequence Diagram of Subscribing to Alarms and Getting Alarms

[i]**Note**

- It is recommended that the interval of getting alarm information be 500ms.
- If messages are not pulled over within 2 days, the alarm subscription will be canceled.
- If the same alarm is uploaded for the second time, it will be uploaded with attachments (e.g., pictures or videos).

4.3 Configure Alarm Rules
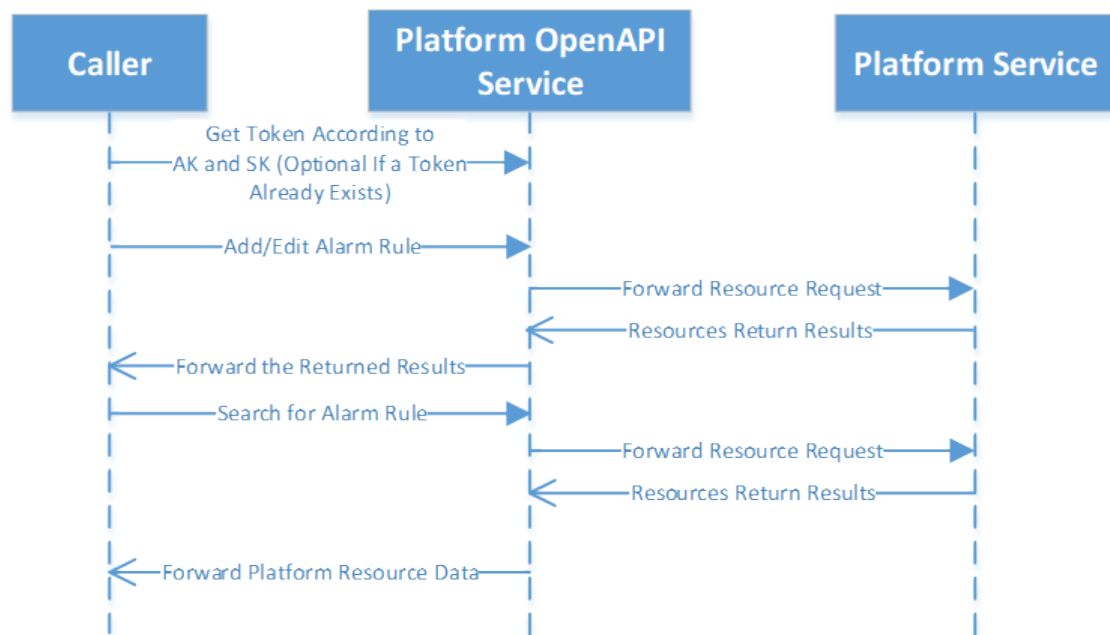
Figure 4-3 Sequence Diagram of Configuring Alarm Rules

4.4 Subscribe to and Get Messages
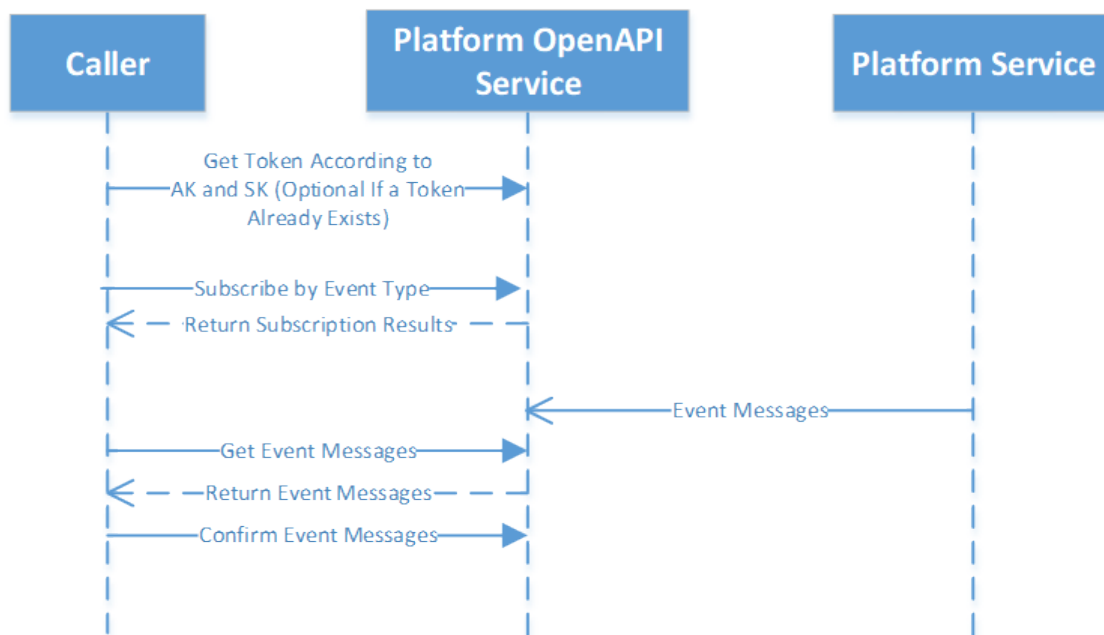
Figure 4-4 Sequence Diagram of Subscribing to and Getting Messages

ⓘNote

- It is recommended that the interval of getting messages be 500 ms.
- If messages are not received within 2 days, the message subscription will be canceled.

4.5 Start Live View / Playback Without Plug-in
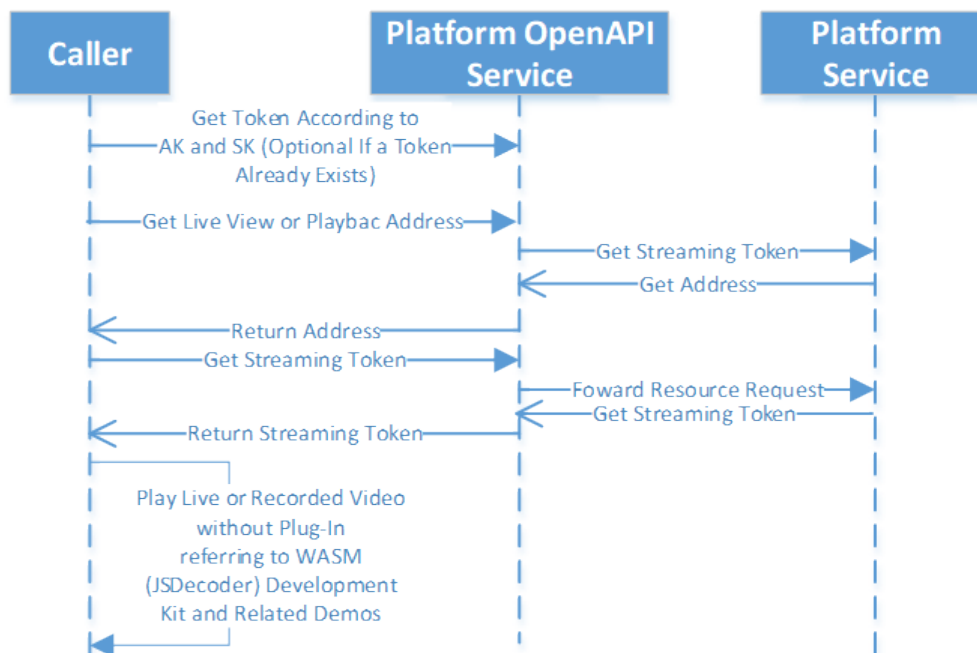
Figure 4-5 Sequence Diagram of Starting Live View / Playback Without Plug-in

4.6 Receive Video Intercom Events
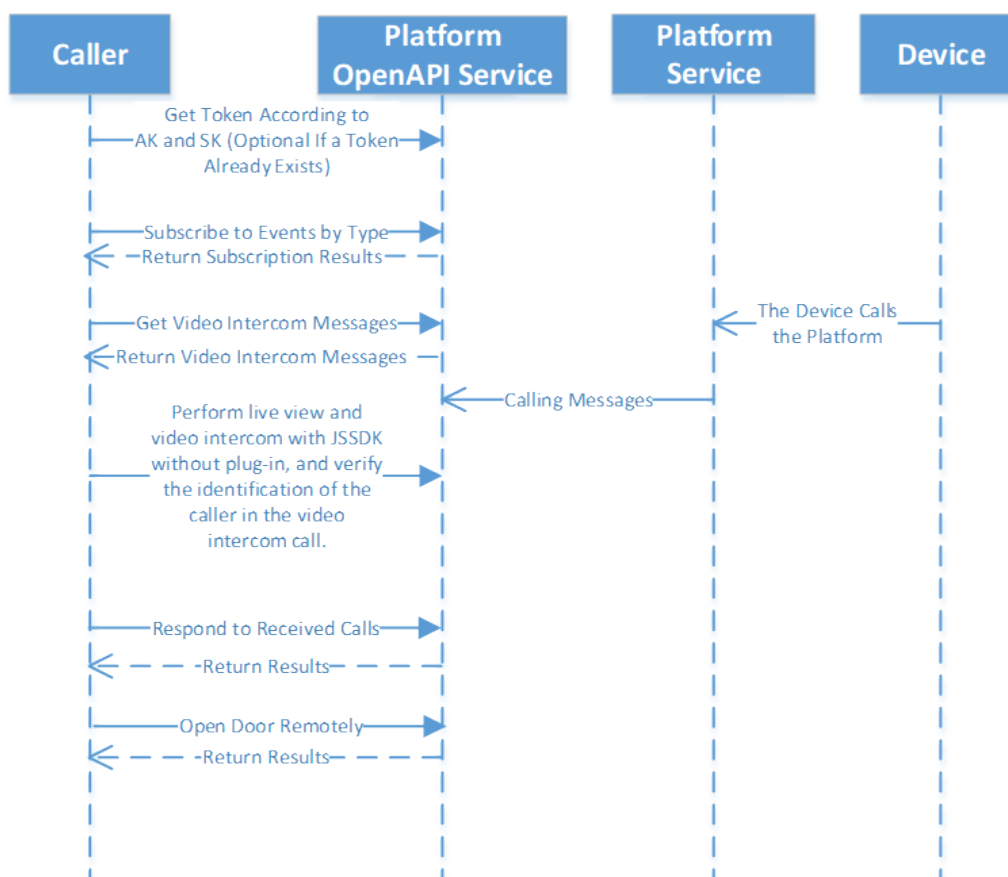
Figure 4-6 Sequence Diagram of Receiving Video Intercom Events

1. Get token according to AK and SK. If the token already exists, it is not required to get the token every time.
2. Call ***POST /api/hccgw/rawmsg/v1/mq/subscribe*** to subscribe to video intercom events (Msg140001).
3. When a device calls, the Hik Connect for Teams platform will send the event messages to OpenAPI service.
4. The caller calls ***POST /api/hccgw/rawmsg/v1/mq/messages*** to get the video intercom messages.

5. With the JSSDK in the development kit , the caller can perform live view and video intercom without plug-in.
6. Based on the received video intercom messages, the caller can call ***POST /api/hccgw/ devcall/v1/call/receive*** to respond to the received calls, and can then call ***POST /api/ hccgw/acs/v1/remote/control*** to open the door remotely.

4.7 Get Department List
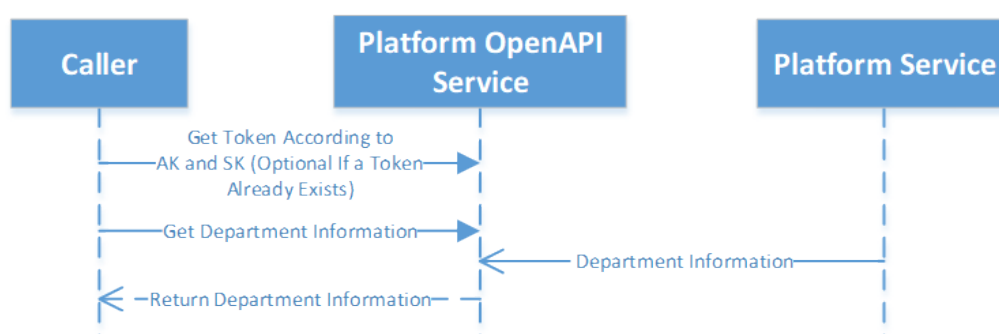
Figure 4-7 Sequence Diagram of Getting Department List

Hik Connect for Teams OpenAPI supports getting department list.

4.8 Open Door via Bluetooth
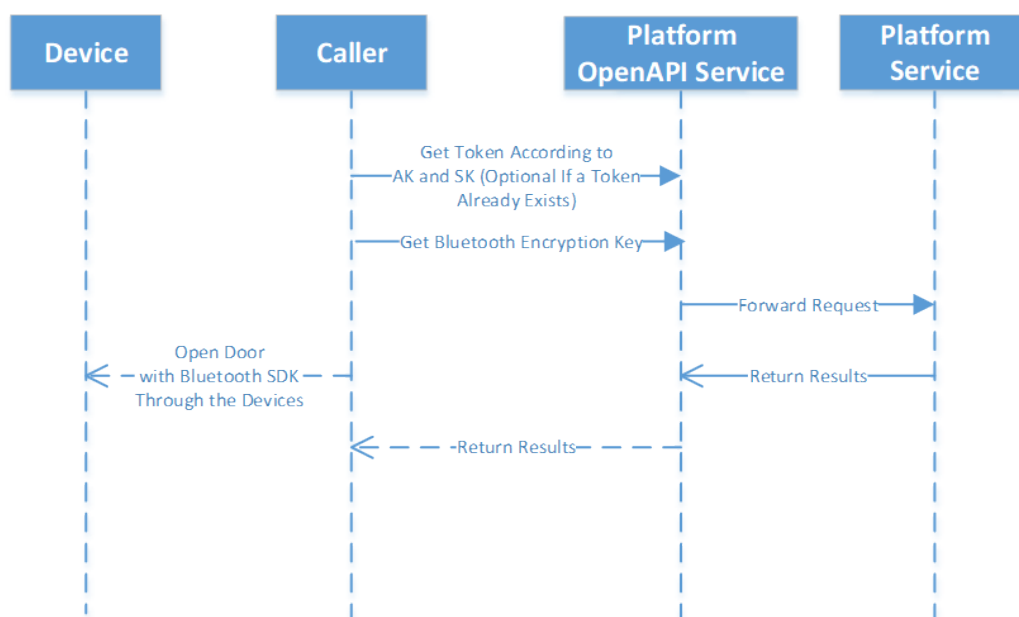
Figure 4-8 Sequence Diagram of Opening Door via Bluetooth

1. Get token according to AK and SK. If the token already exists, it is not required to get the token every time.
2. Call ***GET /api/hccgw/acs/v1/encryptinfo/get*** to get the Bluetooth encryption key, which is unique and will not change.
3. With the Bluetooth encryption key, the caller can use Bluetooth SDK to open door through access control devices / video intercom devices.

4.9 Manage On-Board Monitoring
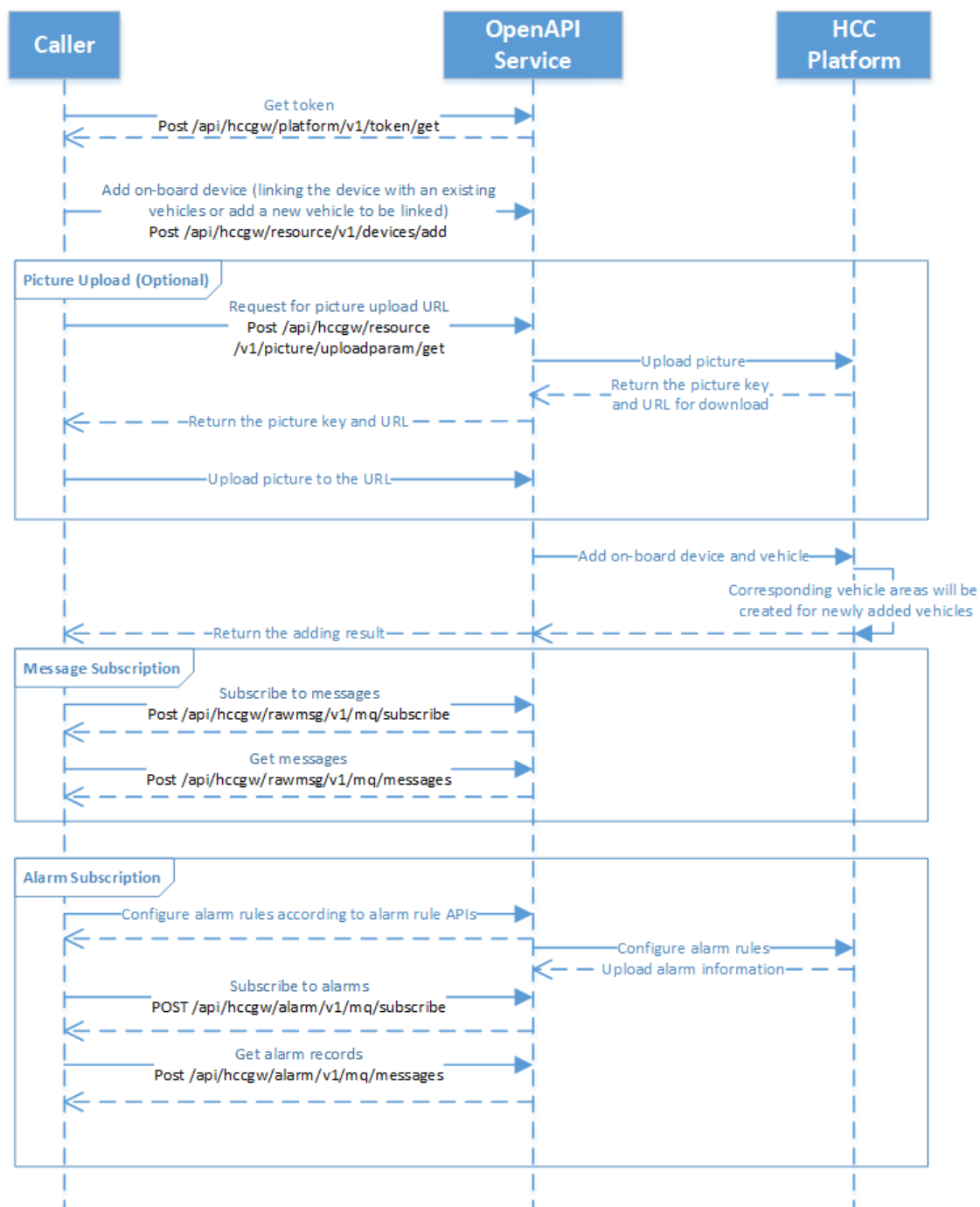
Figure 4-9 Sequence Diagram of Managing On-Board Monitoring

1. Call ***POST /api/hccgw/resource/v1/devices/add*** to add on-board devices. When adding devices, you should link them with existing vehicles or add new vehicles to the platform to be linked with.

[i] **Note**

- When linking the on-board device with an existing vehicle, make sure the device and vehicle are in the same area.
- All logical resources of the added on-board devices will be imported to the area of linked vehicles.
- Support separate management of on-board devices and linked vehicles. See details in ***Device Information*** and ***On-Board Monitoring Services*** respectively.

2. Call ***POST /api/hccgw/resource/v1/picture/uploadparam/get*** to upload pictures and link them with vehicles. Currently a vehicle can only be linked with one picture.
3. When you add vehicles, the corresponding vehicle area will be created by the platform. The vehicle and its area share the same ID. If you delete a vehicle, its area will also be deleted. See details of deleting vehicles in ***POST /api/hccgw/resource/v1/areas/resources/delete*** .

[i] **Note**

The free package only supports adding 10 vehicles and 8 camera channels, and some functions are limited. If you want to access more functions, please contact the service provider.

4.10 Add Person
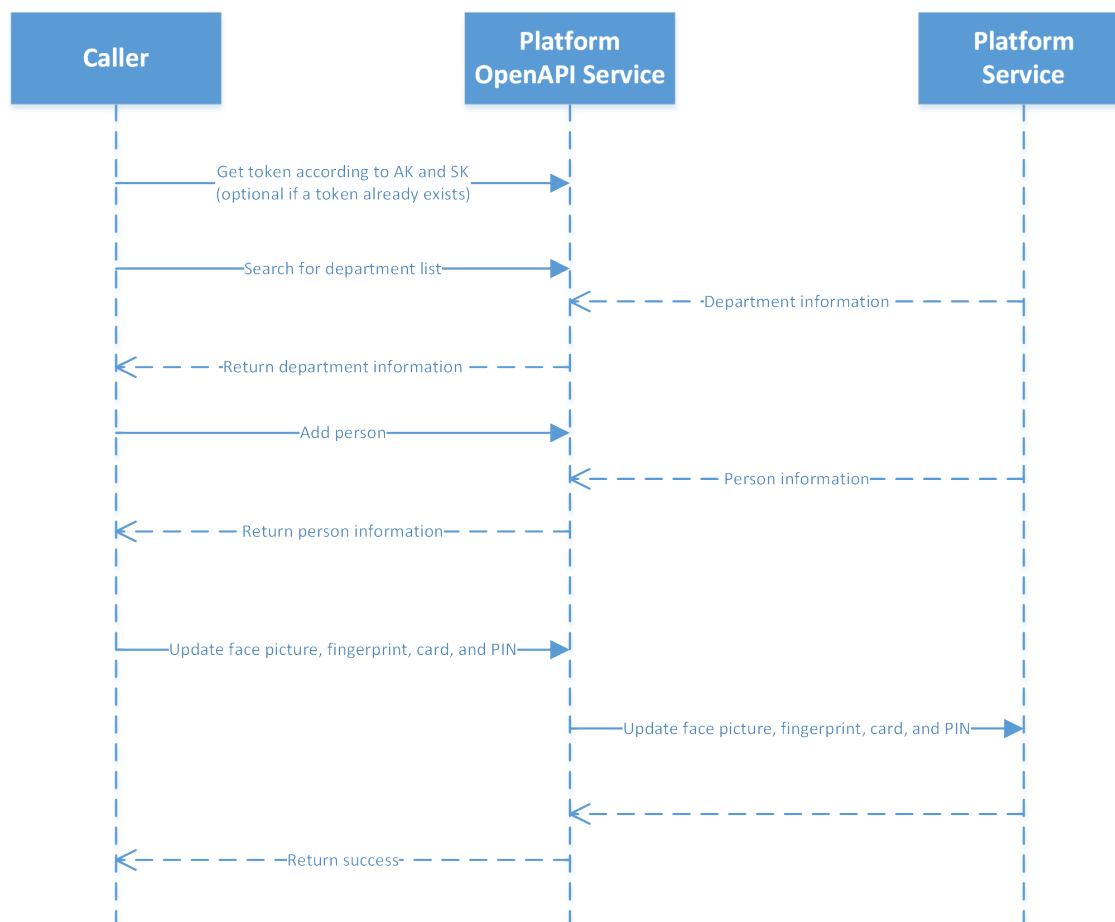
Figure 4-10 Sequence Diagram of Adding Person

1. Get token according to AK and SK. If the token already exists, it is not required to get the token every time.
2. Call ***POST /api/hccgw/person/v1/groups/search*** to get the department list. The obtained department ID can be used for subsequent person adding.
3. Call ***POST /api/hccgw/person/v1/persons/add*** to add persons on the platform.

[i] Note

After the person is added successfully, you can perform the following operations as needed.
- For adding credential information, proceed to the next step.
- For adding this person to device, refer to ***Apply Access Level*** .
- For fast adding a person and fast applying the person's face picture and PIN code to device with a single protocol, refer to ***POST /api/hccgw/person/v1/persons/quick/add*** .

4. Call ***POST /api/hccgw/person/v1/persons/photo*** to update person's profile information.

Call **_POST /api/hccgw/person/v1/persons/updatepincode_** to update person's PIN information. For updating person's fingerprint/card information, refer to **_Update Fingerprint/Card Information_** .

[i]**Note**

Operations on person's credential information are not in sequence.

4.11 Apply Access Level
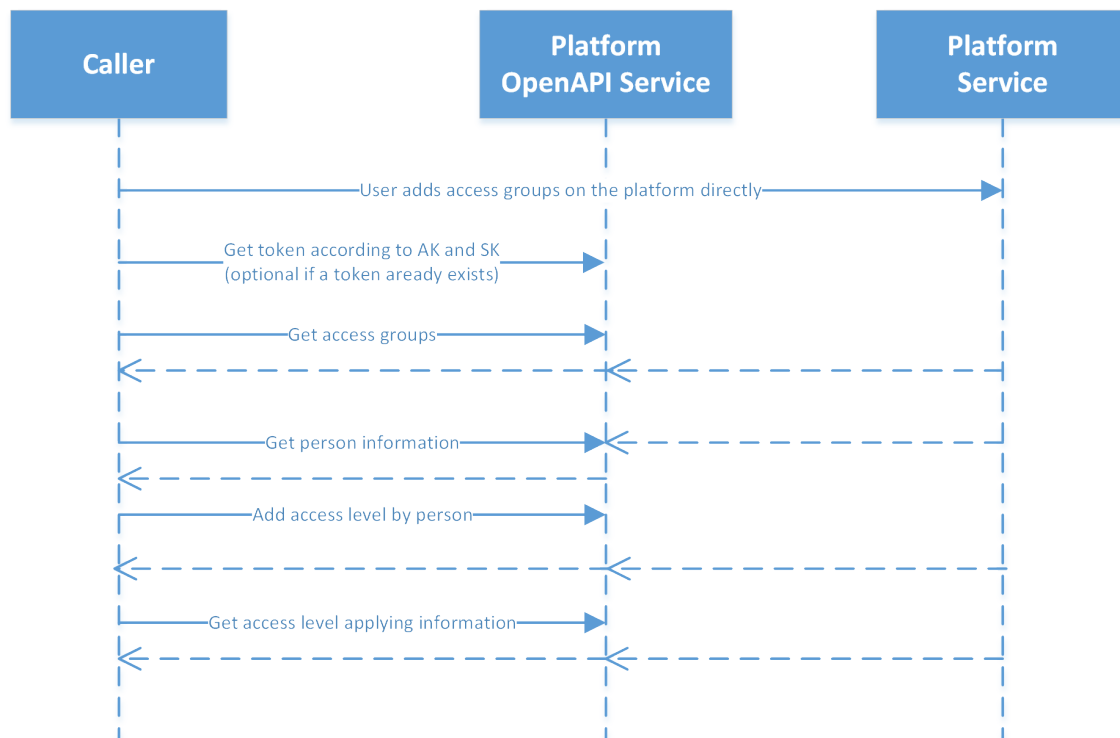
Figure 4-11 Sequence Diagram of Applying Access Level

1. Users should add access group(s) on the platform first.
2. Get token according to AK and SK. If the token already exists, it is not required to get the token every time.
3. Call **_POST /api/hccgw/acspm/v1/accesslevel/list_** to get the access group information added in step 1.
4. Call **_POST /api/hccgw/person/v1/persons/list_** to get the person information.
5. With information obtained in the previous 2 steps, call **_POST /api/hccgw/acspm/v1/accesslevel/person/add_** to assign access level by person, call **_POST /api/hccgw/acspm/v1/accesslevel/person/delete_** to remove access level by person, and call **_POST /api/hccgw/acspm/v1/accesslevel/person/modify_** to modify person's access level.

6. Call **_POST /api/hccgw/acspm/v1/maintain/overview/person/{id}/elementdetail_** to get the access level applying information.
7. After the person is linked with the access group, updates on the basic person information and linked credential information (face picture, card, and fingerprint) will synchronize with those on device of the access group.

4.12 Update Fingerprint/Card Information
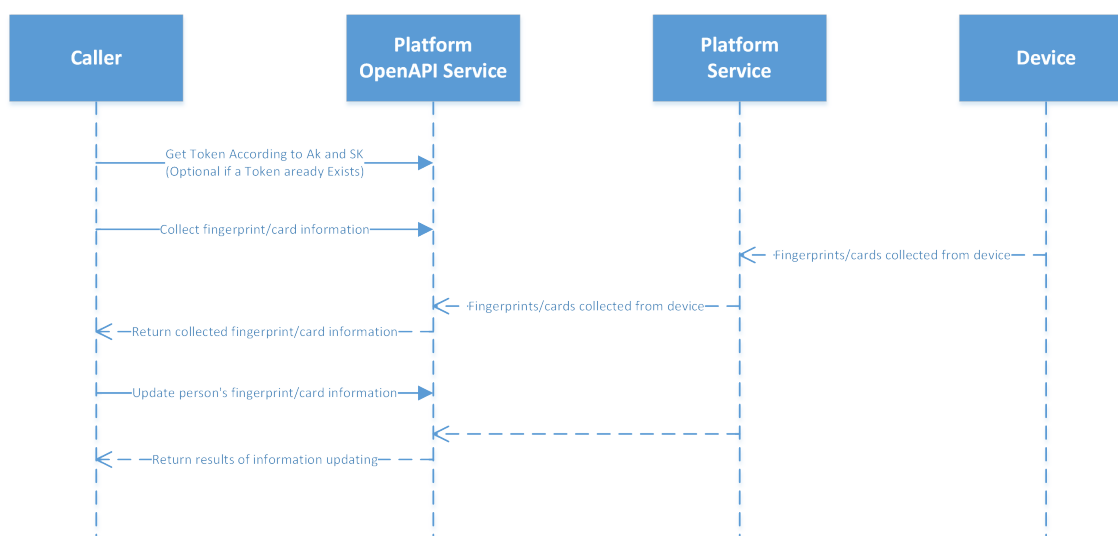
Figure 4-12 Sequence Diagram of Updating Fingerprint/Card Information

1. Get token according to AK and SK. If the token already exists, it is not required to get the token every time.
2. Call **_POST /api/hccgw/person/v1/persons/fingercollect_** to collect fingerprint information.
   Call **_POST /api/hccgw/person/v1/persons/cardcollect_** to collect card information.
3. Call **_POST /api/hccgw/person/v1/persons/updatefingers_** to update fingerprint information.
   Call **_POST /api/hccgw/person/v1/persons/updatecards_** to update card information.

[i] **Note**

The fingerprint information must be collected from device.
For card without card No. showing, the card information can be collected from device; for card with card No. showing, the card information does not need to be collected from device.

4.13 Add Temporary Pass
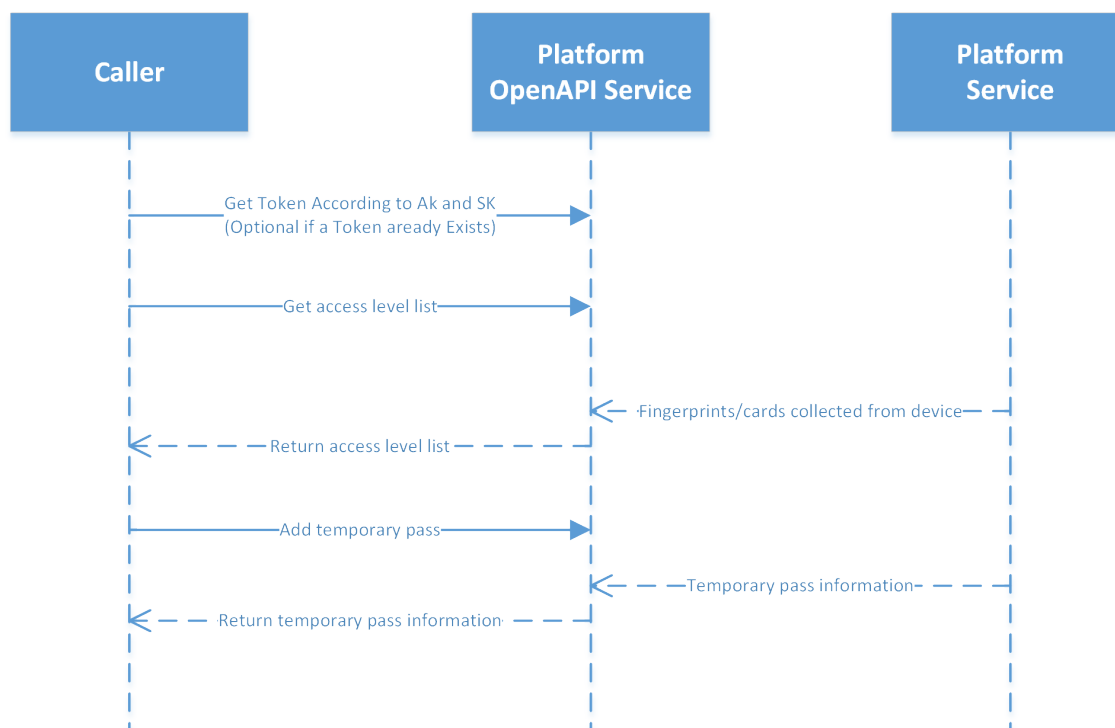
Figure 4-13 Sequence Diagram of Adding Temporary Pass

1. Get token according to AK and SK. If the token already exists, it is not required to get the token every time.
2. Call **_POST /api/hccgw/acspm/v1/accesslevel/list_** to get access level list.
3. Call **_POST /api/hccgw/vims/v1/tempauth/add_** to add temporary pass. After it is added, with returned password and QR code information, you can perform verification on the access level linked device.

ⓘNote

There are 2 types of QR codes: dynamic QR code and static QR code. The dynamic one is only valid for 60 seconds from the moment it is obtained, therefore, it is recommended to call **_POST /api/hccgw/vims/v1/tempauth/get_** every 60 seconds to get a valid dynamic QR code. Once the new dynamic QR code is obtained and used, the previous one will be invalid. The static QR code is valid during the whole temporary pass period. Users can choose to configure the dynamic or static QR code on the HikCentral Connect or Hik Connect for Teams platform, and the dynamic or static QR code will be returned accordingly.

4.14 Add Resident
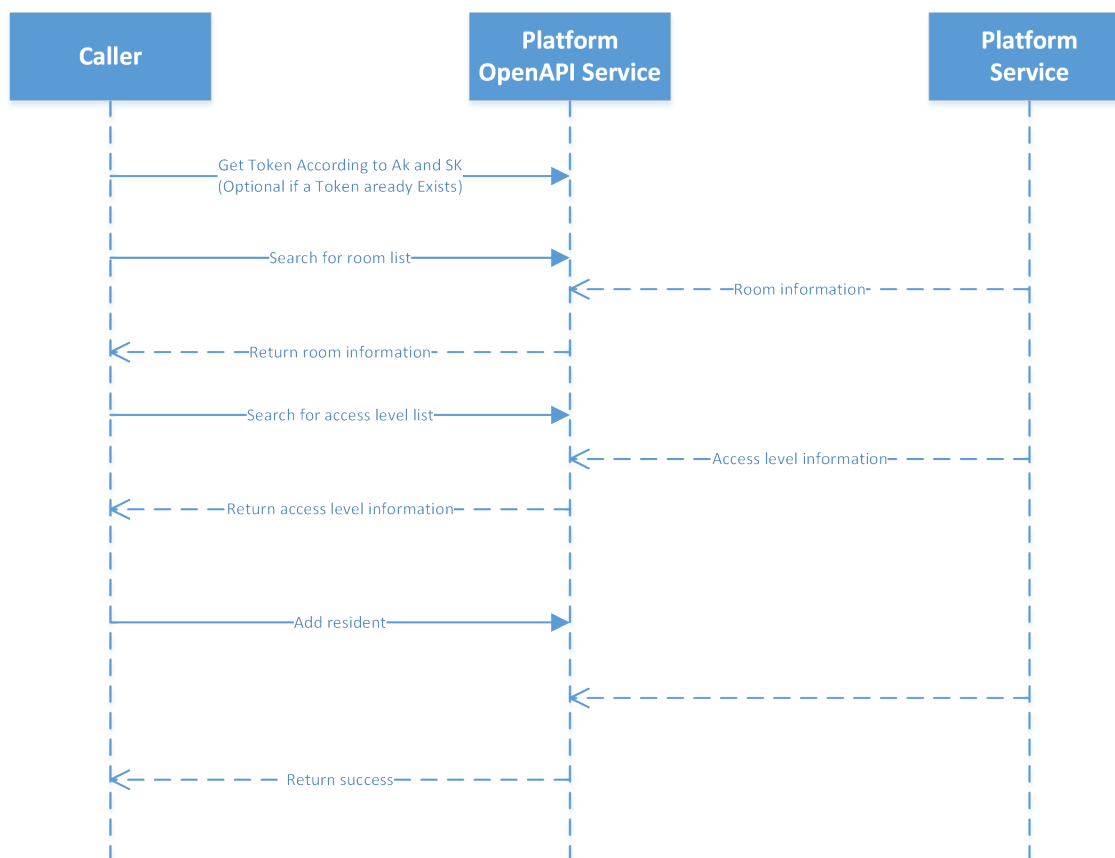
Figure 4-14 Sequence Diagram of Adding Resident

1. Get token according to AK and SK. If the token already exists, it is not required to get the token every time.
2. Call **_POST /api/hccgw/vims/v1/room/search_** to get the room list. Currently only adding room information via HCC/HCT is allowed. You can contact the technical support for guidance and help.
3. (Optional) Call **_POST /api/hccgw/acspm/v1/accesslevel/list_** to get the access level list.

📖**Note**

If the building linked with the room owns device, the resident will be automatically assigned with the access level of the building. Call this API if there are still other access levels to be assigned to this resident.

4. Call **_POST /api/hccgw/vims/v1/person/add_** to add a resident.
5. For adding information (face picture, fingerprint, card, and/or PIN) for the resident, refer to step 4 in **_Add Person_** . As a resident is a person owning room, the protocol for persons also applies.

4.15 Update Resident
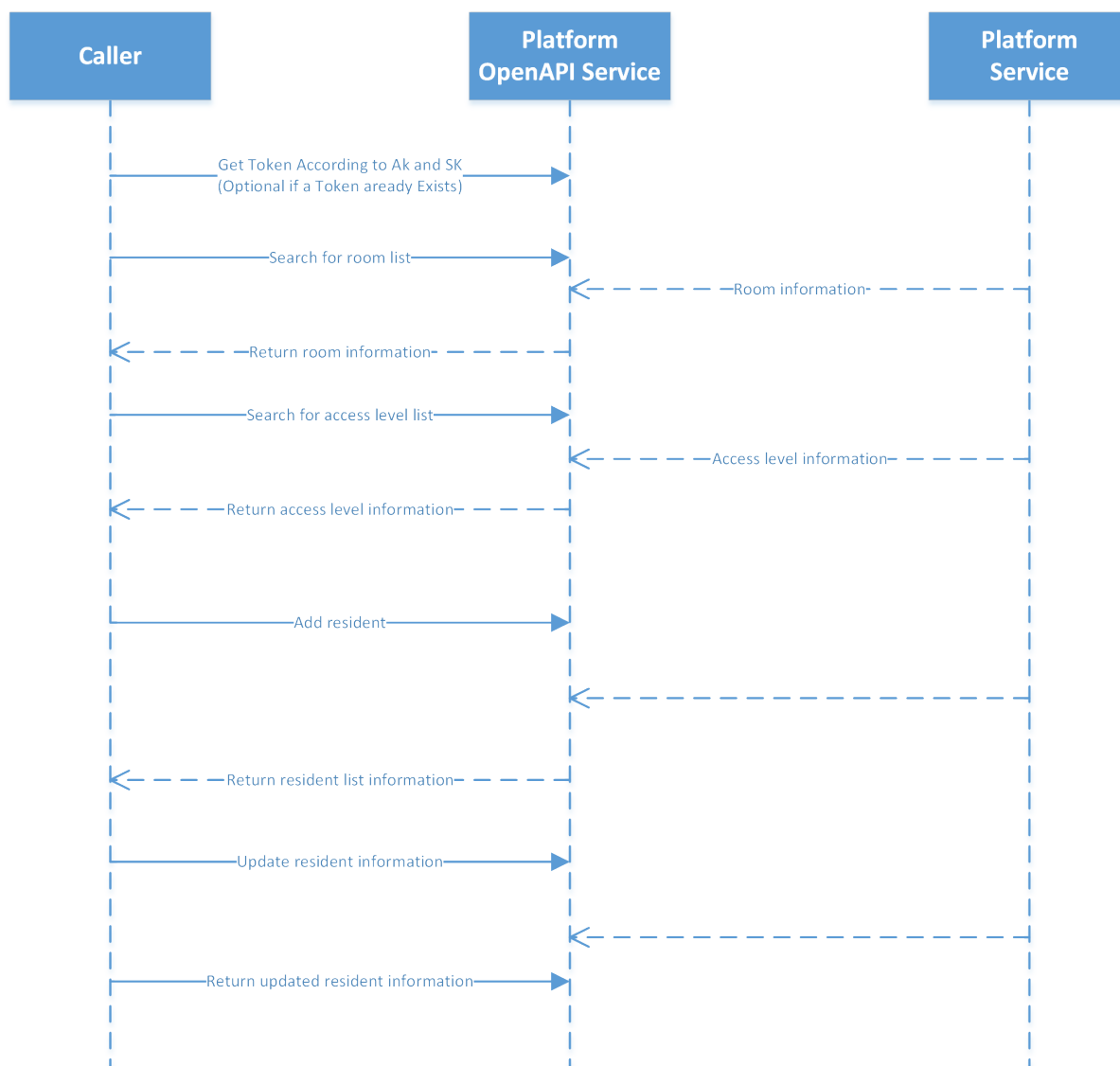
Figure 4-15 Sequence Diagram of Updating Resident

1. Get token according to AK and SK. If the token already exists, it is not required to get the token every time.
2. (Optional) Call ***POST /api/hccgw/vims/v1/room/search*** to get the room list.

ⓘ Note

- Currently only adding room information via HCC/HCT is allowed. You can contact the technical support for guidance and help.
- Skip this step if you do not wish to add room for the resident.

3. (Optional) Call ***POST /api/hccgw/acspm/v1/accesslevel/list*** to get the access level list.

[i]**Note**

If the building linked with the room owns device, the resident will be automatically assigned with the access level of the building. Call this API if there are still other access levels to be assigned to this resident.

4. Call ***POST /api/hccgw/vims/v1/person/search*** to get the resident information as well as the linked room information.

5. Call ***POST /api/hccgw/vims/v1/person/update*** to update the resident information (basic resident information and the linked room information).

[i]**Note**

- If the resident owns 2 rooms, the information of both room should be entered as request parameters; if not, the room left will be deleted by default.
- If you only want to update the basic information of the resident (no room information involved), you can also call the API of updating person information: ***POST /api/hccgw/person/v1/persons/update*** .

6. For adding information (face picture, fingerprint, card, and/or PIN) for the resident, refer to step 4 in ***Add Person*** . As a resident is a person owning room(s), the protocol for persons also applies.

4.16 Search for Attendance Data
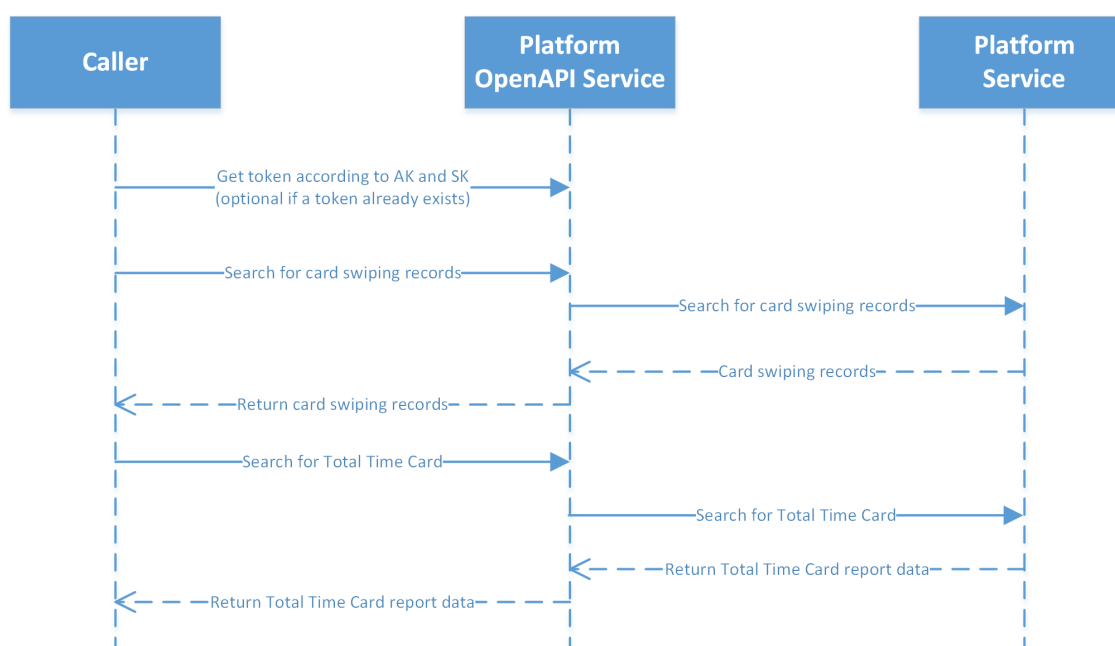
Figure 4-16 Sequence Diagram of Searching for Attendance Data

1. Get token according to AK and SK. If the token already exists, it is not required to get the token every time.
2. (Optional) Call ***POST /api/hccgw/acs/v1/event/certificaterecords/search*** to search for card swiping records, to check if a specific person has performed attendance check on the device on a specific day.
3. Call ***POST /api/hccgw/attendance/v1/report/totaltimecard/list*** to search for attendance result data, to get the attendance result of a specific person on a specific day, including the corresponding attendance duration and attendance status.

Chapter 5 API Reference

> **ⓘNote**
>
> This manual lists all the available APIs provided by Hik Connect for Teams. However, some APIs may be unavailable since it depends on the capabilities of different encoding devices. You can view the available API list for the current Portal of Hik Connect for Teams in the developing environment.

5.1 System-Related Services

5.1.1 Get Token

POST /api/hccgw/platform/v1/token/get

Get the authentication token for calling the development platform via appkey(AK) and appSecret(SK) verification.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/platform/v1/token/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Content-Type	Req.	String	Header	Only application/json is supported.
appKey	Req.	String	Body	appkey(AK). The maximum length is 64.
secretKey	Req.	Number	Body	appSecret(SK). The maximum length is 64.

Request Example

```
{
  "appKey":"cewm9w0qjhv3i290uufnyxzp25l6ym7e",
  "secretKey":"s77w0ckmlyetp2lhfqw8p8zgm23pkpw7"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-1 data Object Description

accessToken	Req.	String	It is used as the node Token for the following APIs. The maximum length is 64.
expireTime	Req.	Integer	Expiry time. The maximum length is 16.
userId	Req.	String	User ID. The maximum length is 64.
areaDomain	Req.	String	Name of the domain where the server is located (for composing URLs).

Response Example

```
{
  "data": {
    "accessToken": "hcc.vh5hb9q495qjjei71g3pdmrjslo5wyti",
    "expireTime": 1655193135,
    "userId": "8a7485aa7f209dd5017f2141adff0019"
    "areaDomain": "https://isgp.hikcentralconnect.com"
  },
  "errorCode": "0"
}
```

5.1.2 System Operation

GET /api/hccgw/platform/v1/systemproperties

Get the Hik Connect for Teams platform information.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/platform/v1/systemproperties

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-2 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
systemGUID	Opt.	String	System ID. The maximum length is 64.

Response Example

```
{
  "data": {
    "systemGUID": "fe436da09dca4e46996c1178f06c7911"
  },
```

```
  "errorCode": "0"
}
```

GET /api/hccgw/platform/v1/servicepackage

Get the package usage information (package type, total purchases, etc.) of the Hik Connect for Teams platform where the current user is logged in.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/platform/v1/servicepackage

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-3 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
packageOverview	Opt.	***PackageOverview***	The package overview.
packageDetails	Opt.	***PackageDetails***	The package details.

Response Example

```
{
  "data": {
    "packageOverview": {
      "servicePackageOverview": [
```

```
      {
        "serviceType": "serviceVideo",
        "packageType": "3",
        "usingAmount": "18",
        "remainingAmount": "92",
        "totalAmount": "110",
        "lastExpiredTime": "1655697132000",
        "packageStatus": 2,
        "cloudStorage": {
           "usingAmountFor7Days": "0",
           "usingAmountFor30Days": "2",
           "remainingAmount": "6"
        }
      },
      {
        "serviceType": "serviceVehicle",
        "packageType": "1",
        "usingAmount": "9",
        "remainingAmount": "1",
        "totalAmount": "10",
        "lastExpiredTime": "4102329600000",
        "packageStatus": 0
      }
    ]
  },
  "packageDetails": {
    "servicePackage": [
      {
        "serviceType": "serviceVideo",
        "packageType": "3",
        "activationTime": "1645243200000",
        "expiredTime": "1655697132000",
        "cloudStorage": []
      },
      {
        "serviceType": "serviceVideo",
        "packageType": "3",
        "activationTime": "1647834732000",
        "expiredTime": "1655783532000",
        "cloudStorage": []
      },
      {
        "serviceType": "serviceVideo",
        "packageType": "1",
        "activationTime": "1645530404870",
        "expiredTime": "7257916800000",
        "cloudStorage": []
      },
      {
        "serviceType": "serviceVehicle",
        "packageType": "1",
        "activationTime": "1645530404870",
```

```
                "expiredTime": "7257916800000"
            }
        ]
    }
},
  "errorCode": "0"
}
```

GET /api/hccgw/platform/v1/streamtoken/get

Get the Hik-Connect streaming token via the current account, and stream via Hik-Connect SDK according to the information returned by the API.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/platform/v1/streamtoken/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **_Status and Error Code_** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-4 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
appKey	Opt.	String	Hik-Connect account appkey. The maximum length is 64.
appToken	Opt.	String	Hik-Connect streaming token. The maximum length is 64. ⚠️ **Note** The validity period of the token is 7 days, within which you can call this API repeatedly to refresh the token so that the remaining validity period will be restored to 7 days again.
streamAreaDomain	Opt.	String	Hik-Connect domain name.
expireTime	Opt.	String	Expiry time. The maximum length is 16.

Response Example

```
{
  "data": {
    "appKey": "ceec5568a64916c72dbeb75f2c6bb3ef",
    "appToken": "at.5rmgt7658l535evhapzn3h4b370yxhft-4u9zipalvq-14f9b7j-vuvcag8hn",
    "streamAreaDomain": "https://isgpopen.ezvizlife.com",
    "expireTime": "1655719632454"
  },
  "errorCode": "0"
}
```

POST /api/hccgw/platform/v1/users/get

Get the system user list via the current account. The user list obtained can be used in alarm rule configuration.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/platform/v1/users/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
pageIndex	Req.	Integer	Body	The current page.
pageSize	Req.	Integer	Body	Number of records on each page.

Request Example

```
{
   "pageIndex":1,
   "pageSize":10

}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-5 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
totalCount	/	Integer	Number of total pages.
pageIndex	/	Integer	The current page.
pageSize	/	Integer	Number of records on each page.
user	/	***User*** []	User information.

Response Example

```
{
  "data": {
    "totalCount": 5,
    "pageIndex": 1,
    "pageSize": 10,
    "user": [
      {
        "id": "8a74899f82157836018215dc643d037f",
        "name": "22"
      },
      {
        "id": "8a74899f82157836018215b5c7aa0377",
        "name": "11"
      },
      {
        "id": "8a748b0d82142e4f0182150971c10369",
        "name": "222333"
      },
      {
        "id": "8a748b3181a510aa0181a53fef2e1210",
        "name": "lmklmk"
      },
      {
        "id": "8a7489d68161eaf9018161f84bb70004",
        "name": "abc"
      }
    ]
  },
  "errorCode": "0"
}
```

5.2 Resource-Related Services

5.2.1 Physical Resources

Device Information

POST /api/hccgw/resource/v1/devices/add

Add device by specifying the device serial No., etc.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/devices/add

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
deviceCategory	Req.	***Device Category***	Body	Device category. The maximum length is 32.
deviceInfo	Req.	***DeviceInfo***	Body	Device information.
importToArea	Opt.	***ImportToArea***	Body	Whether to import to area automatically.
timeZone	Req.	***TimeZone***	Body	Time zone information.
vehicleInfo	Opt.	***VehicleInfo(3)***	Body	On-Board device information. ⓘNote This node is required when the device category is on-board device.

Request Example

```
{
  "deviceCategory": "encodingDevice",
  "deviceInfo": {
    "name": "ceshi",
    "ezvizSerialNo": "G81652987",
    "ezvizVerifyCode": "hcc12345",
    "userName": "",
    "password": "",
    "streamSecretKey":""
  },
  "importToArea": {
    "areaID": "",
    "enable": "0"
  },
  "timeZone": {
    "id": "26",
    "applyToDevice": "1"
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-6 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
addDeviceRespon se	Opt.	***AddDeviceRespon se***	The information returned for adding devices.

Response Example

```
{
  "data": {
    "addDeviceResponse": {
      "failed": 1,
      "succeeded": 0,
      "total": 1,
      "deviceList": [
        {
          "alias": "ceshi",
          "deviceId": "",
          "deviceSerial": "G81652987",
          "errorCode": "EVZ20010"
        }
      ]
    }
  },
  "errorCode": "0"
}
```

POST /api/hccgw/resource/v1/devices/update

Edit device information.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/devices/update

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
deviceInfo	Req.	***DeviceInfo (2)***	Body	Device information.
timeZone	Opt.	***TimeZone***	Body	Time zone information.

Request Example

```
{
  "deviceInfo":{
    "id":"4606458718594636bb0487029f759684",
    "name":"NVR_test221",
    "userName":"admin",
    "password":"Abc12345"
  },
  "timeZone":{
    "id":"19",
    "applyToDevice":"1"
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.

Response Example

```
{
  "errorCode": "0"
}
```

POST /api/hccgw/resource/v1/devices/get

Get the device list by specifying device information.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/devices/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
pageIndex	Req.	Integer	Body	The current page.
pageSize	Req.	Integer	Body	Number of records on each page, which is between 1 and 500.
areaID	Opt.	String	Body	Area ID, which is used exclusively with **jobNumber**.
deviceCategory	Opt.	String	Body	Device category (encoding device, on-board device, alarm device,etc.). The maximum length is 32. When the node **jobNumber** is involved, multiple device categories can be configured (separated by comma); in other cases, searching by multiple device categories is not supported.
filter	Opt.	Object	Body	Search condition. See details in the filter Object Description below.

Table 5-7 filter Object Description

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
matchKey	Opt.	String	Body	Fuzzy search; search fields including device name, device serial No., and device version.
jobNumber	Opt.	String	Body	Work order No. The maximum length is 128.

Request Example

```
{
  "pageIndex":1,
  "pageSize":10,
  "deviceCategory":"encodingDevice",
  "areaID":"420be45bdeb2407c84dc58b3caf056c4",
  "filter":{
    "matchKey":"0",
    "jobNumber":"0"
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	***GetDevicesResVo***	Device list structure.

Response Example

```
{
  "data": {
    "pageIndex": 1,
    "pageSize": 10,
    "totalCount": 2,
    "device": [
      {
        "id": "037d62d6cf0744e39d2274b64fdd279c",
        "name": "10.18.67.249",
        "category": "encodingDevice",
```

```
        "type": "iDS-9664NXI-I8/X",
        "serialNo": "J88106219",
        "version": "V4.60.110 build 220303",
        "timeZone": "30",
        "onlineStatus": 1,
        "addTime": "2022-06-20 11:12:10"
      },
      {
        "id": "4481afd6a2ee425eaa9ad77e8fe491f0",
        "name": "F68147103",
        "category": "encodingDevice",
        "type": "DS-9664NI-I8",
        "serialNo": "F68147103",
        "version": "V4.40.220 build 210125",
        "timeZone": "30",
        "onlineStatus": 1,
        "addTime": "2022-06-20 01:35:10"
      }
    ]
  },
  "errorCode": "0"
}
```

POST /api/hccgw/resource/v1/devicedetail/get

Search for and get the device information by device serial No.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/devicedetail/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
deviceSerialNo	Req.	String	Body	Device serial No. The maximum length is 16.

Request Example

```
{
  "deviceSerialNo":"F68147103 "
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **_Status and Error Code_** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-8 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
device	Opt.	**_GetDeviceInfo_**	The returned device information.

Response Example

```
{
  "data": {
    "device": {
      "baseInfo": {
        "id": "5c263e4293c84eae81720e9e481e33ad",
        "name": "F68147103",
        "category": "encodingDevice",
        "serialNo": "F68147103",
        "version": "V4.40.220 build 210125",
        "type": "DS-9664NI-I8",
        "streamEncryptEnable": "1",
        "availableCameraChannelNum": "4",
        "availableAlarmInputChannelNum": "10",
        "availableAlarmOutputChannelNum": "14"
      },
      "cameraChannel": [
        {
          "id": "5b206babd3fd4439b4884acb86e8bd89",
          "name": "IPCamera 01",
          "no": "1",
          "online": "0",
          "area": {
            "id": "",
            "name": ""
          }
        },
        {
```

```
      "id": "1c693dbf435e4e5ca048d4dd7efbb33b",
      "name": "IPdome",
      "no": "2",
      "online": "1",
      "area": {
        "id": "",
        "name": ""
      }
    }
  ],
  "alarmInputChannel": [
    {
      "id": "1facb548c63746eb8c3eea5b510495d8",
      "name": "D 201",
      "no": "201",
      "online": "1",
      "area": {
        "id": "",
        "name": ""
      }
    },
    {
      "id": "dc7b7129f14a424fa8d04bfc846c0343",
      "name": "D 202",
      "no": "202",
      "online": "1",
      "area": {
        "id": "",
        "name": ""
      }
    }
  ],
  "alarmOutputChannel": [
    {
      "id": "3a900e5c84b64ab9b0bb1e92089c8c23",
      "name": "A 1",
      "no": "1",
      "online": "1",
      "area": {
        "id": "",
        "name": ""
      }
    },
    {
      "id": "4c5fbf177a5c43efa265479e0f9fbb61",
      "name": "A 2",
      "no": "2",
      "online": "1",
      "area": {
        "id": "",
        "name": ""
      }
```

```
            }
        ],
        "onlineStatus": 1,
        "timeZoneID": "30"
      }
    },
    "errorCode": "0"
}
```

POST /api/hccgw/resource/v1/devices/delete

Delete device by the specifying device ID, etc.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/devices/delete

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
deviceID	Req.	String[]	Body	Device ID.
deviceCategory	Req.	String	Body	Device category. The maximum length is 32.
deleteVehicle	Opt.	Integer	Body	Whether to delete the vehicle synchronously: 0-no (by default), 1-yes.

Request Example

```
{
    "deviceID":[
        "4ab20c2f3ba54daea4e0f569b622c362"
    ],
    "deviceCategory":"encodingDevice"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **_Status and Error Code_** for details). Each code can contain up to 32 characters.

Response Example

```
{
    "errorCode": "0"
}
```

POST /api/hccgw/resource/v1/device/capturePic

Capture pictures by camera channel.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/device/capturePic

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
deviceSerial	Req.	String[]	Body	Camera serial No.
channelNo	Req.	Integer	Body	Camera channel No.

Request Example

```
{
    "deviceSerial": "F68147103",
    "channelNo": 1
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.
captureUrl	Opt.	String	Returned captured picture URL (valid for 15 minutes).
isEncrypted	Req.	Integer	Whether the picture is encrypted: 1-encrypted, 0-not encrypted. After stream encryption is enabled for device, the captured picture will be encrypted and requires decryption. For picture decryption needs, please contact the technical support for relevant guide documents.

Response Example

```
{
"data": {
"captureUrl":"http://10.19.215.172:31677/hcc-dev-2/hccopen/capture/2023-01-12/F68147103/1/29668554-
c828-44ed-b13c-faba96c3697c.jpeg?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Date=20230112T024359Z&X-
Amz-SignedHeaders=host&X-Amz-Expires=900&X-Amz-Credential=minio123%2F20230112%2Fap-
southeast-1%2Fs3%2Faws4_request&X-Amz-
Signature=64065497a8b887c1845f4443029096c12daf220533a8ae3bf4662d8f4414a6ff"
"isEncrypted": 0
},
"errorCode": "0"
}
```

POST /api/hccgw/resource/v1/device/{deviceId}/refresh

Synchronously refresh device status.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/device/{deviceId}/refresh

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
deviceId	Req.	String	Path	Device ID.

Request Example

http://dev-3.hikcentralconnect.com/api/hccgw/resource/v1/device/
c6a91398ffeb46888ace8f4667483095 /refresh

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-9 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
deviceId	Req.	String	Device ID.
status	Opt.	Integer	Device network status: 0-offline, 1-online.
errorCode	Opt.	String	Error code, returned when refreshing device status failed.

Response Example

```
{
  "data": {
```

```
      "deviceId": "1aed864a17214f4f8d43f258b9bb4d88",
      "status": 1
   },
   "errorCode": "0"
}
Or
{
   "data": {
      "deviceId": "1aed864a17214f4f8d43f258b9bb4d88",
      "errorCode": " CCF021307"
   },
   "errorCode": "0"
}
```

5.2.2 Logical Resources

Areas

POST /api/hccgw/resource/v1/areas/add

Add area by specifying area-related information.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/areas/add

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
parentAreaID	Req.	String	Body	Parent area ID. The maximum length is 32.
areaName	Req.	String	Body	Area name. The maximum length is 64.

Request Example

```
{
   "parentAreaID":"-1",
   "areaName":"test_mgz2"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **_Status and Error Code_** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-10 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
areaID	/	String	Area ID created.

Response Example

```
{
  "data": {
    "areaID": "1aed864a17214f4f8d43f258b9bb4d88"
  },
  "errorCode": "0"
}
```

POST /api/hccgw/resource/v1/areas/get

Get the area list.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/areas/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
pageIndex	Req.	Integer	Body	The current page.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
pageSize	Req.	Integer	Body	Number of records on each page, which is between 1 and 500.
filter	Opt.	Object	Body	Search condition. See details in the filter Object Description below.

Table 5-11 filter Object Description

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
parentAreaID	Opt.	String	Body	Parent area ID, which can be used to get the corresponding child area list. All areas are included if this node is empty or "-1". The maximum length is 32.
includeSubArea	Opt.	String	Body	Whether to get the corresponding child areas: 0 (only get the parent area), -1 (get all corresponding child areas under the parent area).

Request Example

```
{
  "pageIndex":"1",
  "pageSize":"10",
  "filter":{
    "parentAreaID":"-1",
    "includeSubArea":1
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details).

Parameter	Req. or Opt.	Data Type	Description
			Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-12 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
totalCount	Req.	String	Number of total records.
pageIndex	Req.	String	The current page.
pageSize	Req.	String	Number of records on each page.
area	Opt.	***BriefArea*** []	Area information.

Response Example

```
{
  "data": {
    "totalCount": 2,
    "pageIndex": 1,
    "pageSize": 10,
    "area": [
      {
        "id": "1d3797d6f5c84b4c9720f2d1453b3516",
        "name": "10.18.67.249",
        "parentAreaID": "-1",
        "existSubArea": "0"
      },
      {
        "id": "d9eaa479588b48cb9f79a59ab5fb41b9",
        "name": "F68147103",
        "parentAreaID": "-1",
        "existSubArea": "0"
      }
    ]
  },
  "errorCode": "0"
}
```

POST /api/hccgw/resource/v1/areadetail/get

Get area information by specifying area ID.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/areadetail/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
areaID	Opt.	String[]	Body	The list of area IDs.

Request Example

```
{
  "areaID":[
    "1d3797d6f5c84b4c9720f2d1453b3516","d9eaa479588b48cb9f79a59ab5fb41b9","test"
  ]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-13 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
area	Opt.	***BriefArea***	Area information.

Response Example

```
{
  "data": {
    "area": [
      {
        "id": "1d3797d6f5c84b4c9720f2d1453b3516",
        "name": "10.18.67.249",
        "parentAreaID": "-1",
        "existSubArea": 0,
        "areaPath": "area0->area1->area2"
      },
      {
        "id": "d9eaa479588b48cb9f79a59ab5fb41b9",
        "name": "F68147103",
        "parentAreaID": "-1",
        "existSubArea": 0
      },
      {
        "id": "test",
        "message": "Area is not exist([id=test]){VMS021101}",
        "errorCode": "VMS021101"
      }
    ]
  },
  "errorCode": "0"
}
```

Cameras and Alarm Inputs/Outputs

POST /api/hccgw/resource/v1/areas/resources/add

Add resource to area by specifying the resource information.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/areas/resources/add

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
areaID	Req.	String	Body	Area ID. The maximum length is 32.
devChannel	Req.	Object[]	Body	Resource information. See details in the devChannel Object Description below.

Table 5-14 devChannel Object Description

Parameter Name	Req. or Opt.	Data Type	Parameter Type	Description
resourceName	Req.	String	Body	Resource name. The maximum length is 64.
resourceType	Req.	String	Body	Resource type, e.g., camera, alarmInput (alarm input), alarmOutput (alarm output). The maximum length is 64.
channelID	Req.	String	Body	Channel ID, equivalent to the node id in ***CameraChannel*** , ***AlarmInputChannel*** , and ***AlarmOutputChannel*** from ***GetDeviceInfo*** returned from POST /api/hccgw/resource/v1/devicedetail/get. The maximum length is 32.

Request Example

```
{
  "areaID":"1d3797d6f5c84b4c9720f2d1453b3516",
  "devChannel":[
    {
    "resourceName":"D 201",
    "resourceType":"alarmInput",
    "channelID":"564138cd313d41dab82b41e73757edaa"
    }
```

```
    ]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-15 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
resource	/	***ResourceAddResult*** []	Area-related information.

Response Example

```
{
  "data": {
    "areaID": "1d3797d6f5c84b4c9720f2d1453b3516",
    "devChannel": [
      {
        "id": "239a3b48baf64f20bdce8aee4a84d917",
        "name": "D 201",
        "channelID": "564138cd313d41dab82b41e73757edaa",
        "resourceType": "alarmInput",
        "errorCode": "0"
      }
    ]
  },
  "errorCode": "0"
}
```

POST /api/hccgw/resource/v1/areas/resources/delete

Delete resources from an area by resource IDs.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/areas/resources/delete

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
ids	Req.	String[]	Body	Area ID. The maximum length is 32.

Request Example

```
{
"ids": ["1d3797d6f5c84b4c9720f2d1453b3516"]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.

Response Example

```
{
"errorCode": "0"
}
```

POST /api/hccgw/resource/v1/areas/cameras/get

Get camera list by specifying the camera information.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/areas/cameras/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
pageIndex	Req.	Integer	Body	The current page.
pageSize	Req.	Integer	Body	Number of records on each page, which is between 1 and 500.
filter	Req.	Object	Body	Search condition. See details in the filter Object Description below.

Table 5-16 filter Object Description

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
areaID	Opt.	String	Body	Area ID. All areas are included if this node is empty. The maximum length is 32.
includeSubArea	Opt.	String	Body	Whether to include cameras in the child area: 0 (No), -1 (yes). It is 0 (No) when **deviceID** or **deviceSerialNo** is specified.
deviceSerialNo	Opt.	String	Body	Device serial No. The maximum length is 32.
cameraID	Opt.	String[]	Body	Camera ID. The maximum length is 32.

Request Example

```
{
  "pageIndex":"1",
  "pageSize":"10",
  "filter":{
    "areaID":"-1",
    "includeSubArea":"1",
    "deviceID":"",
    "deviceSerialNo":"",
    "cameraID":[
      "ba1e16a1f1084a93a7dc72b21609c380","b6ddbebb36584a51858edbba30c7283c"
    ]
```

```
    }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **_Status and Error Code_** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-17 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
totalCount	Req.	Integer	Number of total pages.
pageIndex	Req.	Integer	The current page.
pageSize	Req.	Integer	Number of records on each page.
camera	/	**_CameraInfo_** []	Camera-related information.

Response Example

```
{
  "data": {
    "totalCount": 2,
    "pageIndex": 1,
    "pageSize": 10,
    "camera": [
      {
        "id": "ba1e16a1f1084a93a7dc72b21609c380",
        "name": "Camera 13",
        "abilitySet": "1,21,22,2002,2021,2022",
        "online": "1",
        "area": {
          "id": "128bb54e279144b0a0d324b36b8f262b",
          "name": "10.66.250.14"
        },
        "device": {
          "devInfo": {
            "id": "497c3301093b4678b32033a8dad10dab",
            "category": "0",
```

```
            "serialNo": "J32355571",
            "streamSecretKey": ""
          },
          "channelInfo": {
            "id": "00889ceac8c44267904b2c500bc1420b",
            "no": "13"
          }
        }
      }
    },
    {
      "id": "b6ddbebb36584a51858edbba30c7283c",
      "name": "IPcamera1",
      "abilitySet": "1,21,22,2002,2015,2016,2021,2022,2023,2024,2027,2029,2030",
      "online": "1",
      "area": {
        "id": "b105274991b2460097a0cd5c83399cfe",
        "name": "10.66.250.104"
      },
      "device": {
        "devInfo": {
          "id": "f401a9a6d4e743618ddd4b2dae9e3866",
          "category": "0",
          "serialNo": "J32353319",
          "streamSecretKey": ""
        },
        "channelInfo": {
          "id": "0090c1cd4bf44379b500cbbc67085217",
          "no": "61"
        }
      }
    }
  ]
},
"errorCode": "0"
}
```

POST /api/hccgw/resource/v1/areas/alarmoutputs/get

Get the information of alarm output resource.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/areas/alarmoutputs/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
pageIndex	Req.	Integer	Body	The current page.
pageSize	Req.	Integer	Body	Number of records on each page, which is between 1 and 500.
filter	Req.	Object	Body	Search condition. See details in the filter Object Description below.

Table 5-18 filter Object Description

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
areaID	Opt.	String	Body	Area ID. All areas are included if this node is empty. The maximum length is 32.
includeSubArea	Req.	String	Body	Whether to include cameras in the child area: 0 (No), 1 (yes). It is 0 (No) when **deviceID** or **deviceSerialNo** is specified. The maximum length is 1.
deviceID	Opt.	String	Body	Device ID. The maximum length is 32.
deviceSerialNo	Opt.	String	Body	Device serial No. The maximum length is 32.

Request Example

```
{
  "pageIndex":"1",
  "pageSize":"10",
  "filter":{
    "areaID":"-1",
    "includeSubArea":"1",
    "deviceID":"",
    "deviceSerialNo":""
```

```
    }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **_Status and Error Code_** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-19 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
totalCount	Req.	String	Number of total pages.
pageIndex	Req.	String	The current page.
pageSize	Req.	String	Number of records on each page.
alarmOutput	/	**_AlarmInfo_** []	Information of alarm output resource.

Response Example

```
{
   "data": {
      "totalCount": 2,
      "pageIndex": 1,
      "pageSize": 10,
      "alarmOutput": [
         {
            "id": "4944007e0a154eabaa8ee9c337f0525c",
            "name": "A 1",
            "abilitySet": "",
            "online": "1",
            "area": {
               "id": "2174986f377c4a75a10e03e757be33f6",
               "name": "10.66.8.48"
            },
            "device": {
               "devInfo": {
                  "id": "2ee24be89de1467faaf4d9f33ddebb48",
```

```
        "category": "0",
        "serialNo": "J72878604",
        "streamSecretKey": ""
      },
      "channelInfo": {
        "id": "b58a0172ab504c9f98060456a3c7069f",
        "no": "1"
      }
    }
  }
},
{
  "id": "488615f2caa944b1b7507efd7bb08c23",
  "name": "A 2",
  "abilitySet": "",
  "online": "1",
  "area": {
    "id": "2174986f377c4a75a10e03e757be33f6",
    "name": "10.66.8.48"
  },
  "device": {
    "devInfo": {
      "id": "2ee24be89de1467faaf4d9f33ddebb48",
      "category": "0",
      "serialNo": "J72878604",
      "streamSecretKey": ""
    },
    "channelInfo": {
      "id": "373398c10ef3464d86ea850fcd2184e2",
      "no": "2"
    }
  }
}
]
},
"errorCode": "0"
}
```

POST /api/hccgw/resource/v1/areas/alarminputs/get

Get information of alarm input resources.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/areas/alarminputs/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
pageIndex	Req.	Integer	Body	The current page.
pageSize	Req.	Integer	Body	Number of records on each page, which is between 1 and 500.
filter	Req.	Object	Body	Search condition. See details in the filter Object Description below.

Table 5-20 filter Object Description

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
areaID	Opt.	String	Body	Area ID. All areas are included if this node is empty. The maximum length is 32.
includeSubArea	Req.	String	Body	Whether to include cameras in the child area: 0 (No), 1 (yes). It is 0 (No) when **deviceID** or **deviceSerialNo** is specified. The maximum length is 1.
deviceID	Opt.	String	Body	Device ID. The maximum length is 32.
deviceSerialNo	Opt.	String	Body	Device serial No. The maximum length is 32.

Request Example

```
{
  "pageIndex":"1",
  "pageSize":"10",
  "filter":{
    "areaID":"-1",
    "includeSubArea":"1",
    "deviceID":"",
    "deviceSerialNo":""
```

```
    }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **_Status and Error Code_** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-21 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
totalCount	Req.	String	Number of total pages.
pageIndex	Req.	String	The current page.
pageSize	Req.	String	Number of records on each page.
alarmInput	/	**_AlarmInfo_** []	Information of alarm input resources.

Response Example

```
{
  "data": {
    "totalCount": 2,
    "pageIndex": 1,
    "pageSize": 10,
    "alarmOutput": [
      {
        "id": "4944007e0a154eabaa8ee9c337f0525c",
        "name": "A 1",
        "abilitySet": "",
        "online": "1",
        "area": {
          "id": "2174986f377c4a75a10e03e757be33f6",
          "name": "10.66.8.48"
        },
        "device": {
          "devInfo": {
            "id": "2ee24be89de1467faaf4d9f33ddebb48",
```

```
          "category": "0",
          "serialNo": "J72878604",
          "streamSecretKey": ""
        },
        "channelInfo": {
          "id": "b58a0172ab504c9f98060456a3c7069f",
          "no": "1"
        }
      }
    },
    {
      "id": "488615f2caa944b1b7507efd7bb08c23",
      "name": "A 2",
      "abilitySet": "",
      "online": "1",
      "area": {
        "id": "2174986f377c4a75a10e03e757be33f6",
        "name": "10.66.8.48"
      },
      "device": {
        "devInfo": {
          "id": "2ee24be89de1467faaf4d9f33ddebb48",
          "category": "0",
          "serialNo": "J72878604",
          "streamSecretKey": ""
        },
        "channelInfo": {
          "id": "373398c10ef3464d86ea850fcd2184e2",
          "no": "2"
        }
      }
    }
   ]
  },
  "errorCode": "0"
}
```

POST /api/hccgw/resource/v1/areas/alarminputs/status/get

Get the alarm input status.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/areas/alarminputs/status/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
alarmIntputID	Req.	Array[String]	Body	Alarm input ID set. You can get statuses of up to 8 resources at the same time.

Request Example

```
{
  "alarmInputID": [
    "2c0a4ab9a2504de4842d95435f3a8620",
    "b35b8e9a9326418ca2198ed45709b5bd"
  ]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-22 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
alarmInput	Req.	***AlarmInputInfo*** []	Returned alarm input status. If the requested alarm input ID does not exist, the returned information will not include the corresponding alarm input information.

Response Example

```
{
  "data": {
```

```
    "alarmInput": [
      {
        "id": "0da41f0ac59c4debade796914f874148",
        "status": 2,
        "errorCode": "0"
      },
      {
        "id": "3d75a50c0ae84fc99c19581ef82d1b29",
        "status": 1,
        "errorCode": "0"
      }
    ]
  },
  "errorCode": "0"
}
```

POST /api/hccgw/resource/v1/areas/alarmoutputs/control

Edit alarm output status.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/areas/alarmoutputs/control

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
alarmOutputO peration	Req.	Object[]	Body	Alarm output status.

Table 5-23 filter Object Description

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
alarmOutputI D	Req.	String	Body	Alarm output ID. The maximum length is 32.
operation	Req.	Integer	Body	Whether to enable: 0 (No), -1 (yes).

Request Example

```
{
  "alarmOutputOperation":[
    {
```

```
            "alarmOutputID":"b58a0172ab504c9f98060456a3c7069f",
            "operation":1
        }
    ]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **_Status and Error Code_** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-24 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
alarmOutputOperation	/	**_AlarmOutputOperation_** []	Information related to alarm output control.

Response Example

```
{
  "data": {
    "alarmOutputOperation": [
      {
        "alarmOutputID": "b58a0172ab504c9f98060456a3c7069f",
        "alarmOutputState": 1,
        "errorCode": "0"
      }
    ]
  },
  "errorCode": "0"
}
```

POST /api/hccgw/resource/v1/areas/alarmoutputs/status/get

Get alarm output status.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/areas/alarmoutputs/status/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
alarmOutputI D	Req.	String[]	Body	Alarm output ID set.

Request Example

```
{
  "alarmOutputID":[
    "b58a0172ab504c9f98060456a3c7069f"
  ]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-25 data Object Description

Parameter Name	Data Type	Parameter Type	Description
alarmOutput	***AlarmOutputState*** []	Body	Information related to alarm output status.

Response Example

```
{
  "data": {
    "alarmOutput": [
```

```
        {
            "id": "b58a0172ab504c9f98060456a3c7069f",
            "status": 1,
            "errorCode": "0"
        }
    ]
  },
  "errorCode": "0"
}
```

POST /api/hccgw/resource/v1/areas/cameras/thumbnail/get

Get camera thumbnail by specifying camera information.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/areas/cameras/thumbnail/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
cameraID	Req.	String	Body	Camera ID. The maximum length is 32.
refresh	Req.	Integer	Body	Whether to refresh and get the camera thumbnail: 0 (do not refresh), 1(refresh).

Request Example

```
{
    "cameraID":"ba1e16a1f1084a93a7dc72b21609c380",
    "refresh":1
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details).

Parameter	Req. or Opt.	Data Type	Description
			Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-26 data Object Description

Parameter Name	Data Type	Parameter Type	Description
pictureURL	String	Body	Thumbnail URL (valid for a day).
isEncrypted	Integer	Body	Whether the picture is encrypted: 1-encrypted, 0-not encrypted. After stream encryption is enabled for device, the captured picture will be encrypted and requires decryption. For picture decryption needs, please contact the technical support for relevant guide documents.

Response Example

```
{
  "data": {
    "pictureURL": "https://testuslite.ezvizlife.com:443/https://testuslite.ezvizlife.com/image/pic/
ad3fc9cb47854fceadcf27abe4da87b8?c=59c1da51"
    "isEncrypted": 0
  },
  "errorCode": "0"
}
```

Door

POST /api/hccgw/resource/v1/areas/doors/get

Get door information.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/areas/doors/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
pageIndex	Req.	Integer	Body	The current page.
pageSize	Req.	Integer	Body	Number of records on each page, which is between 1 and 500.
filter	Req.	Object	Body	Search condition. The maximum length is 64. See details in the filter Object Description below.

Table 5-27 filter Object Description

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
areaID	Opt.	String	Body	Area ID. All areas are included if this node is empty. The maximum length is 32.
includeSubArea	Req.	String	Body	Whether to include cameras in the child area: "0" (No), "1" (yes). It is 0 (No) when **deviceID** or **deviceSerialNo** is specified. The maximum length is 1.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
deviceID	Opt.	Opt.	Body	Device ID. The maximum length is 32.
deviceSerialNo	Opt.	Opt.	Body	Device serial No. The maximum length is 32.

Request Example

```
{
  "pageIndex":1,
  "pageSize":10,
  "filter":{
    "areaID":"-1",
    "includeSubArea":"1",
    "deviceID":"",
    "deviceSerialNo":""
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-28 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
totalCount	Req.	String	Number of total pages.
pageIndex	Req.	String	The current page.
pageSize	Req.	String	Number of records on each page.
door	/	***AlarmInfo*** []	Information of alarm input resources.

Response Example

```
{
  "data": {
    "totalCount": 2,
    "pageIndex": 1,
    "pageSize": 10,
    "door": [
      {
        "id": "9365880922bf49bd8df94cafccf9214c",
        "name": "Door TEST 02",
        "online": "1",
        "area": {
          "id": "e3c8840f789a4203ba45f9f106dc9da3",
          "name": "APP video intercom testing"
        },
        "device": {
          "devInfo": {
            "id": "a4a7ba685065471bae03cf039f23d901",
            "category": "0",
            "serialNo": "K14891504",
            "streamSecretKey": ""
          },
          "channelInfo": {
            "id": "288329024512665601",
            "no": "2"
          }
        }
      },
      {
        "id": "b1c47d5d318e438b910f0a38fcc0d54a",
        "name": "Door TEST 01",
        "online": "1",
        "area": {
          "id": "e3c8840f789a4203ba45f9f106dc9da3",
          "name": "APP video intercom testing"
        },
        "device": {
          "devInfo": {
            "id": "a4a7ba685065471bae03cf039f23d901",
            "category": "0",
            "serialNo": "K14891504",
            "streamSecretKey": ""
          },
          "channelInfo": {
            "id": "288329024512665600",
            "no": "1"
          }
        }
      }
    ]
```

```
  },
  "errorCode": "0"
}
```

Time Zone

POST /api/hccgw/resource/v1/timezone/get

Get the time zone list.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/timezone/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-29 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
systemTimeZoneID	/	String	Time zone ID of the Hik Connect for Teams platform.
timeZone	/	***TimeZoneInfo*** []	Time zone information.

Response Example

```
{
  "data": {
    "timeZone": [
      {
        "id": "19",
        "standardName": "Central Asia Standard Time",
        "displayName": "(UTC+06:00) Astana",
        "bias": -360,
        "dst": {
          "daylightBias": "-60",
          "daylightDate": "0:0:0:0:0",
          "standardDate": "0:0:0:0:0",
          "enable": 0
        }
      },

      …

      {
        "id": "1",
        "standardName": "Afghanistan Standard Time",
        "displayName": "(UTC+04:30) Kabul",
        "bias": -270,
        "dst": {
          "daylightBias": "-60",
          "daylightDate": "0:0:0:0:0",
          "standardDate": "0:0:0:0:0",
          "enable": 0
        }
      }
    ],
    "systemTimeZoneID": "30"
  },
  "errorCode": "0"

}
```

5.3 Alarm-Related Services

Alarm refers to the content uploaded by the device when the configured alarm rules are triggered.

5.3.1 Alarm Subscription

POST /api/hccgw/alarm/v1/mq/subscribe

Subscribe to alarm information.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/alarm/v1/mq/subscribe

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
subscribeType	Req.	Integer	Body	0 (cancel subscription), 1 (subscribe).
subscribeMode	Req.	Integer	Body	0 (subscribe to all alarm types), 1(subscribe by alarm type).
eventType	Opt.	Integer[]	Body	Alarm event type. See details in ***Alarm Type*** .

Request Example

```
{
    "subscribeType": 1,
    "subscribeMode": 1,
    "eventType": [0,1]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.

Response Example

```
{
   "errorCode": "0"
}
```

POST /api/hccgw/alarm/v1/mq/messages

Get alarm information.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/alarm/v1/mq/messages

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
maxNumberPerTime	Opt.	Integer	Body	Information volume per request: 100, 200, 300 (default), 400, 500.

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-30 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
batchId	Req.	String	ID of information batch processing.
remainingNumber	Req.	Long	Total remaining alarms.
alarmMsg	/	*AlarmMsg* []	Event information.

Response Example (for Leaving Queue Alarm)

```
{
  "data": {
    "batchId":
"0730b5d3664040f33fe8bfd4eb6b886b88f10040e489a0d54c00e41546a6a9b2946cbcd91f0a6eca6ec6cddf4511a78f",
    "remainingNumber":13445;
    "alarmMsg": [
      {
        "systemId": "f718f3013b5a4fb38e573043afe28683",
        "guid": "18892bc026ddddd",
        "dataRetransmission": 1,
        "msgType": "1",
        "alarmState": "1",
        "pulseAlarm": "false",
        "alarmMainCategory": "alarmCategoryVideo",
        "alarmSubCategory": "alarmSubCategoryCamera",
        "timeInfo": {
    "endTime": "2023-04-13T08:56:55Z",
          "endTimeLocal": "2023-04-13T16:56:55+08:00",
          "startTime": "2023-04-13T08:56:40Z",
          "startTimeLocal": "2023-04-13T16:56:40+08:00"
        },
        "eventSource": {
          "eventType": "100657",
          "sourceID": "780e25f5f72b4592a2e5c2deae38726f",
          "sourceName": "IPCamera 01",
          "sourceType": "camera",
          "areaID": "66669b5dd0024e12b5502623f7dc343a",
          "areaName": "1",
          "deviceInfo": {
            "devID": "38a0c1e93feb4838bcb541cae43d14f6",
            "devName": "G95721825"
          }
        },
        "alarmRule": {
          "id": "1640597519769669632",
          "name": "People Queue Leave",
          "description": ""
        },
```

```
        "alarmPriority": {
          "id": "0545620a6ed24fdda0673188e334b561",
          "level": "1",
          "levelName": "1",
          "color": "#F40B0B"
        },
        "markState": "0",
        "affirmedState": "0",
        "linkageTypes": [],
        "linkageConfig": {},
        "vehicleRelatedInfo": {},
        "queueRelatedInfo": {
          "queueInfo": {
            "regionID": "123",
            "regionName": "122-3232",
            "queueThreshold": 15,
            "peopleTargetId": 11,
            "waitTime": 600,
            "startTime": "2023-04-13T19:42:27+08:00",
            "endTime": "2023-04-13T20:42:27+08:00"
          }
        }
      }
    ]
  },
  "errorCode": "0"
}
```

POST /api/hccgw/alarm/v1/mq/messages/complete

Confirm that alarms are received by specifying the batchId.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/alarm/v1/mq/messages/complete

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
batchId	Req.	String	Body	The batchId returned when getting the list of event information. The maximum length is 256.

Request Example

```
{

"batchId":"5a32fddc6f5c01e067f7abdfe5348a6c98f64d1fe196b9d54c45b01b50a3a7b5946dbcd91f0a6eca6ec6cddf4511a78f"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.

Response Example

```
{
   "errorCode": "0"
}
```

5.3.2 Alarm Subscription (V2)

POST /api/hccgw/combine/v1/mq/subscribe

Subscribe to events.

[i] **Note**

See details of included events in ***Alarm Type (V2)*** .

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/combine/v1/mq/subscribe

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
subscribeType	Req.	Integer	Body	0-cancel subscription, 1-subscribe. The maximum length is 1.
msgType	Opt.	String[]	Body	Event types to subscribe to. If this node is empty or not configured, all events will be subscribed by default. Refer to ***Alarm Type (V2)*** for details.

Request Example

```
{
  "subscribeType":1,
  "msgType": ["330001","140001"]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.

Response Example

```
{
"errorCode": "0"
}
```

POST /api/hccgw/combine/v1/mq/messages

Pull events. After subscription is made, you can get messages manually from the device. It is recommended that the interval of getting messages be 500 ms.

ⓘNote

See details of included events in **_Alarm Type (V2)_** .

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/combine/v1/mq/messages

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
maxNumberPerTime	Opt.	Integer	Body	Information volume per request: 100, 200, 300 (default), 400, 500.

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **_Status and Error Code_** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-31 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
batchId	Req.	String	Message queue batch processing ID.
remainingNumber	Req.	Long	Total remaining alarms.
events	/	**_CombineEvent_** []	Information related to event messages.

Response Example

```
{
  "errorCode": "string",
```

```
"data": {
  "batchId": "string",
  "remainingNumber": 0,
  "events": [
    {
      "eventId": "string",
      "eventType": "string",
      "basicInfo": {
        "systemId": "string",
        "occurrenceTime": "string",
        "dataRetransmission": 0,
        "resourceInfo": {
          "sourceType": "string",
          "sourceID": "string",
          "sourceName": "string",
          "areaName": "string",
          "areaID": "string",
          "deviceInfo": {
            "id": "string",
            "name": "string",
            "category": "string",
            "deviceSerial": "string"
          }
        }
      },
      "eventData": {
        "fileInfo": {
          "fileContent": "string",
          "file": [
            {
              "type": "string",
              "suffixName": "string",
              "url": "string",
              "saveState": "string",
              "generationMode": "string",
              "encrypted": "string",
              "extendInfo": {
                "sourceID": "string",
                "sourceName": "string",
                "sourceType": "string",
                "captureIndex": "string"
              }
            }
          ]
        },
        "vehicleReletedInfo": {
          "gpsInfo": {
            "ew": "string",
            "lng": "string",
            "ns": "string",
            "lat": "string",
            "direction": 0,
```

```
        "height": 0,
        "speed": 0
      },
      "vehicleInfo": {
        "licensePlate": "string",
        "id": "string",
        "speedLimit": 0,
        "driverInfos": [
          {
            "driverName": "string",
            "driverPhone": "string",
            "driverFacePic": "string",
            "licenseInfo": {
              "licenseNo": "string",
              "invalidTime": "string",
              "imageUrl": "string"
            }
          }
        ]
      }
    },
    "queueReletedInfo": {
      "queueInfo": {
        "regionID": "string",
        "regionName": "string",
        "peopleTargetId": 0,
        "waitTime": 0,
        "startTime": "string",
        "endTime": "string",
        "queueThreshold": 0
      }
    },
    "anprInfo": {
      "driveDirection": 0,
      "licensePlate": "string",
      "pictureInfo": [
        {
          "pictureURL": "string",
          "plateRect": {
            "X": "string",
            "Y": "string",
            "width": "string",
            "height": "string"
          }
        }
      ],
      "vehicleListType": "string"
    },
    "deviceTalkInfo": {
      "userId": "string",
      "personId": "string",
      "roomNumber": "string",
```

```
                "deviceSerial": "string",
                "deviceName": "string",
                "deviceId": "string",
                "msgId": "string",
                "msgType": "string",
                "doorInfos": [
                  {
                    "doorId": "string",
                    "doorName": "string"
                  }
                ]
              }
            }
          }
        ]
      }
    }
}
```

POST /api/hccgw/combine/v1/mq/messages/complete

Confirm that events are received by specifying the **batchId**, or you will get the same data continuously. After confirming, you will get the new data.

ℹ️**Note**

See details of included events in ***Alarm Type (V2)*** .

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/combine/v1/mq/messages/complete

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
batchId	Req.	String	Body	Batch ID for getting event messages. The maximum length is 256.

Request Example

```
{

"batchId":"4075e8d16a4b4ce63dabebcdba3cd37e83b65a13edd5b4d34343ef595ab6b5a7946a86e61d086cc86cc4cfdd
```

4713a58d"
}

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **_Status and Error Code_** for details). Each code can contain up to 32 characters.

Response Example

```
{
"errorCode": "0"
}
```

5.3.3 Alarm Rules

POST /api/hccgw/alarm/v1/alarmrules/add

Configure alarm rules.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/alarm/v1/alarmrules/add

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
alarmrule	/	Object[]	Body	Information related to alarm rules.

Table 5-32 alarmrule Object Description

Parameter Name	Req. or Opt.	Data Type	Parameter Type	Description
name	Req.	String	Body	Alarm rule name. The maximum length is 255.
alarmMainCategory	Opt.	String	Body	Alarm main category. The maximum length is 64.
alarmSubCategory	Opt.	String	Body	Alarm sub category. The maximum length is 64.
description	Opt.	String	Body	Alarm rule description. The maximum length is 128.
color	Opt.	String	Body	Alarm rule color. The maximum length is 64.
notification	Opt.	*__Notification__*	Body	Notification configuration.
schedule	Opt.	*__Schedule__*	Body	Alarm template.
priority	Opt.	*__Priority__*	Body	Alarm priority.
ignoreRecurring	Opt.	*__IgnoreRecurring__*	Body	Auto-close alarming window.
eventSource	Req.	*__EventSource__*	Body	Event source.

Request Example

```
{
  "alarmRule": [
    {
      "name": "fjx-test",
      "color": "#ff0000",
      "alarmMainCategory": "alarmCategoryVideo",
      "alarmSubCategory": "alarmSubCategoryCamera",
      "description": "fjx-test",
      "enable": 1,
      "priority": {
        "id": "2f87acf0985e431d852bbaed10aba040"
      },
      "notification": {
        "enable": 1,
        "recipients": [
          {
            "userID": "8a7485aa7f209dd5017f2141adff0019",
            "userName": "hccdd2 uat6"
          }
```

```
            ]
        },
        "schedule": {
            "type": "1",
            "timeSchedule": {
                "id": "161a03299fd94914b89accdf0844b0e6"
            }
        },
        "ignoreRecurring": {
            "enable": "1",
            "timeValue": "15"
        },
        "eventSource": {
            "sourceType": "camera",
            "eventType": 10102,
            "sourceID": "6a95b98ae34e4eac88f3af8a286bf47c",
            "sourceName": "5546G0_191 Camera 01"
        }
        }
    ]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-33 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
alarmRule	Req.	***AlarmRuleOperation*** []	Alarm rule information.

Response Example

```
{
    "errorCode": "0",
    "data": {
        "alarmRule": [
```

```
    {
      "name": "fjx-test",
      "errorCode": "",
      "id": "1658413372250656768"
    }
   ]
  }
}
```

POST /api/hccgw/alarm/v1/alarmrules/get

Get the list of alarm rules.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/alarm/v1/alarmrules/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
pageIndex	Req.	Integer	Body	The current page.
pageSize	Req.	Integer	Body	Number of records on each page, which is between 1 and 500.
filter	Opt.	Object	Body	Search condition. See details in the filter Object Description below.

Table 5-34 filter Object Description

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
alarmRuleID	Opt.	String	Body	Alarm rule ID. This search condition is not enabled if this node is empty or null. The maximum length is 64.
alarmRuleName	Opt.	String	Body	Alarm rule name. Fuzzy search supported. This search condition is not enabled if this

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				node is empty or null. The maximum length is 64.
eventSourceName	Opt.	String	Body	Alarm source name. Fuzzy search supported. This search condition is not enabled if this node is empty or null. The maximum length is 64.
alarmRuleState	Opt.	Integer	Body	-1 or empty (all), 0 (normal), 1 (abnormal). The maximum length is 3.
alarmRuleEnable	Opt.	Integer	Body	-1 or empty (all), 0 (disable), 1 (enable). The maximum length is 3.
eventSource	Opt.	*EventSource* []	Body	Alarm source. Only sourceType and sourceID is required for search.
alarmCategory	Opt.	*AlarmCategory*	Body	Alarm category.

Request Example

```
{
  "pageIndex":"1",
  "pageSize":"10",
  "filter":{
    "alarmRuleID":"",
    "alarmRuleName":"",
    "eventSourceName":"",
    "alarmRuleState":0,
    "alarmRuleEnable":0,
"alarmCategory":{
      "mainCategory":"",
      "subCategory":""
},
    eventSource:[
{
"sourceID":"",
"sourceType":""
}
]
```

```
   }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Alarm rule list structure.

Table 5-35 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
totalCount	Req.	String	Number of total pages.
pageIndex	Req.	String	The current page.
pageSize	Req.	String	Number of records on each page.
alarmRule	/	***AlarmRuleDetail*** []	Information related to alarm rules.

Response Example

```
{
  "data": {
    "totalCount": 1,
    "pageIndex": 1,
    "pageSize": 10,
    "alarmRule": [
      {
        "id": "1542072136028524544",
        "name": "Camera 01-Motion Detection",
        "color": "#ff0000",
        "enable": 1,
        "state": "0",
        "alarmMainCategory": "alarmCategoryVideo",
        "alarmSubCategory": "alarmSubCategoryCamera",
        "notification": {
          "enable": 1,
          "recipients": [
            {
              "userID": "8a7489d68161eaf9018161f84bb70004",
              "userName": "abc  abc"
            },
            {
```

```
                    "userID": "8a748b3181a510aa0181a53fef2e1210",
                    "userName": "lmk  lmk"
                }
            ]
        },
        "schedule": {
            "timeSchedule": {
                "id": "8a748e7681618fea018161f847d70000",
                "name": ""
            },
            "type": "1"
        },
        "priority": {
            "id": "0db8cd1c85324e27a1f36c4f5a66e18",
            "level": "1",
            "levelName": "",
            "color": "#F40B0B"
        },
        "ignoreRecurring": {
            "enable": 0,
            "timeValue": 15
        },
        "eventSource": {
            "eventType": 10002,
            "sourceID": "a1afc31e55af4960900fa6498d67399d",
            "sourceType": "camera",
            "sourceName": "Camera 01"
        }
      }
    ]
  },
  "errorCode": "0"
}
```

POST /api/hccgw/alarm/v1/alarmrules/update

Edit alarm rules.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/alarm/v1/alarmrules/update

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
alarmrule	Req.	Object[]	Body	Information related to alarm rules.

Table 5-36 alarmrule Object Description

Parameter Name	Req. or Opt.	Data Type	Parameter Type	Description
id	Req.	String	Body	Alarm rule ID. The maximum length is 64.
name	Req.	String	Body	Alarm rule name. The maximum length is 255.
description	Opt.	String	Body	Alarm rule description. The maximum length is 128.
color	Opt.	String	Body	Alarm rule color. The maximum length is 64.
notification	Opt.	***Notification***	Body	Notification configuration.
schedule	Opt.	***Schedule***	Body	Alarm template.
priority	Opt.	***Priority***	Body	Alarm priority.
ignoreRecurring	Opt.	***IgnoreRecurring***	Body	Auto-close alarming window.
eventSource	Req.	***EventSource***	Body	Event source.

Request Example

```
{
    "alarmRule": [
      {
        "id": "1542072136028524544",
        "name": "Camera 01-Motion Detection",
        "color": "#ff0000",
        "enable": 1,
        "state": "0",
        "alarmMainCategory": "alarmCategoryVideo",
        "alarmSubCategory": "alarmSubCategoryCamera",
        "notification": {
```

```
          "enable": 1,
          "recipients": [
            {
              "userID": "8a7489d68161eaf9018161f84bb70004",
              "userName": "abc abc"
            },
            {
              "userID": "8a748b3181a510aa0181a53fef2e1210",
              "userName": "lmk  lmk"
            }
          ]
        },
        "schedule": {
          "timeSchedule": {
            "id": "8a748e7681618fea018161f847d70000",
            "name": ""
          },
          "type": "1"
        },
        "priority": {
          "id": "0db8cd1c85324e27a1f36c4f5a66e18",
          "level": "1",
          "levelName": "",
          "color": "#F40B0B"
        },
        "ignoreRecurring": {
          "enable": 0,
          "timeValue": 15
        },
        "eventSource": {
          "eventType": 10002,
          "sourceID": "a1afc31e55af4960900fa6498d67399d",
          "sourceType": "camera",
          "sourceName": "Camera 01"
        }
      }
    ]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details).

Parameter	Req. or Opt.	Data Type	Description
			Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-37 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
alarmRule	Req.	***AlarmRuleOperation*** []	Alarm rule information.

Response Example

```
{
  "errorCode": "0",
  "data": {
    "alarmRule": [
      {
        "name": "fjx-test",
        "id": "1658413372250656768"
      }
    ]
  }
}
```

POST /api/hccgw/alarm/v1/alarmpriorities/get

Get the alarm priority list.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/alarm/v1/alarmpriorities/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
pageIndex	Req.	Integer	Body	The current page.
pageSize	Req.	Integer	Body	Number of records on each page, which is between 1 and 500.

Request Example

```
{
    "pageIndex":"1",
    "pageSize":"10"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-38 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
totalCount	Req.	String	Number of total pages.
pageIndex	Req.	String	The current page.
pageSize	Req.	String	Number of records on each page.
alarmpriorities	/	***Alarmpriorities*** []	Information related to alarm priorities.

Response Example

```json
{
  "data": {
    "totalCount": "3",
    "pageIndex": "0",
    "pageSize": "10",
    "alarmpriorities": [
      {
        "id": "0db8cd1c85324e27a1f36c4f5a66e18",
        "level": 1,
        "levelName": "",
        "color": "#F40B0B",
        "audioURL": ""
      },
      {
        "id": "0e17d83ee1b24f239aec7a1a9a69d66",
        "level": 3,
        "levelName": "",
        "color": "#2D8B3D",
        "audioURL": ""
      },
      {
        "id": "0e1f9742db0d48cea90b5c92b73806d",
        "level": 2,
        "levelName": "",
        "color": "#D79931",
        "audioURL": ""
      }
    ]
  },
  "errorCode": "0"
}
```

POST /api/hccgw/alarm/v1/receivingschedules/get

Get the list of alarm arming schedule templates.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/alarm/v1/receivingschedules/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
pageIndex	Req.	Integer	Body	The current page.
pageSize	Req.	Integer	Body	Number of records on each page, which is between 1 and 500.

Request Example

```
{
   "pageIndex":"1",
   "pageSize":"10"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-39 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
totalCount	Req.	String	Number of total pages.
pageIndex	Req.	String	The current page.
pageSize	Req.	String	Number of records on each page.
receivingSchedule	/	***ReceivingSchedule*** []	Information related to alarm arming schedule templates.

Response Example

```
{
  "data": {
    "totalCount": "3",
    "pageIndex": "1",
    "pageSize": "10",
    "alarmpriorities": [
      {
        "id": "0db8cd1c85324e27a1f36c4f5a66e18",
        "level": 1,
        "levelName": "",
        "color": "#F40B0B",
        "audioURL": ""
      },
      {
        "id": "0e17d83ee1b24f239aec7a1a9a69d66",
        "level": 3,
        "levelName": "",
        "color": "#2D8B3D",
        "audioURL": ""
      },
      {
        "id": "0e1f9742db0d48cea90b5c92b73806d",
        "level": 2,
        "levelName": "",
        "color": "#D79931",
        "audioURL": ""
      }
    ]
  },
  "errorCode": "0"
}
```

POST /api/hccgw/alarm/v1/alarmlinkage/add

Configure alarm linkage.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/alarm/v1/alarmlinkage/add

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
alarmLinkage	/	Object[]	Body	Information related to alarm linkage configuration.

Table 5-40 alarmrule Object Description

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
alarmRuleID	Req.	String	Body	Alarm rule ID. The maximum length is 32.
linkageItem	Opt.	***LinkageItem*** []	Body	Linkage item name.

Request Example

```
{
  "alarmLinkage": [
    {
      "alarmRuleID": "b9619db8ee50475cbf8c6c89cbfb5dbd",
      "linkageItem": [
        {
          "linkageType": "LinkCamera",
          "linkageConfig": {
            "linkCamera": {
              "preRecordTime": 3,
              "postRecordTime": 15,
              "camera": [
                {
                  "id": "21f84da3f9604a30a3f5b6975fa0f38a",
                  "name": "5546G0_191 Camera 01",
                  "areaID": "450ac442bf4e4daf9f04e1af1bc90be7",
                  "areaName": "_2022-05-07T201804_0"
                }
              ]
            }
          }
        },
        {
          "linkageType": "LinkCapturePicture",
          "linkageConfig": {
            "linkCapturePicture": {
              "captureInterval": 3,
              "captureMode": 2,
```

```
                    "camera": [
                        {
                            "resourceType": "1001",
                            "id": "21f84da3f9604a30a3f5b6975fa0f38a",
                            "name": "5546G0_191 Camera 01",
                            "areaID": "450ac442bf4e4daf9f04e1af1bc90be7",
                            "areaName": "_2022-05-07T201804_0"
                        }
                    ]
                }
            }
        },
        {
            "linkageType": "LinkAlarmOutput",
            "linkageConfig": {
                "linkAlarmOutput": {
                    "autoClose": 0,
                    "autoCloseTime": 15,
                    "alarmOutput": [
                        {
                            "id": "d5418485784b44f79b52e24a64bf2574",
                            "name": "A 2",
                            "areaID": "1b65a68be27d41be9f2ed7ddc7045276",
                            "areaName": "111"
                        }
                    ]
                }
            }
        },
        {
            "linkageType": "LinkEMail",
            "linkageConfig": {
                "linkEmail": {
                    "emailTemplateId": "8a748675809d8e3901809d9c57370000",
                    "emailTemplateName": "test22"
                }
            }
        }
    ]
  }
 ]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details).

Parameter	Req. or Opt.	Data Type	Description
			Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-41 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
alarmLinkage	Req.	***AlarmLinkage*** []	Alarm linkage rule information.

Response Example

```
{
  "data": {
   "alarmLinkage": [
    {
      "alarmRuleID": "1651173299037802496",
      "itemID": "5BE20D67677647EF8D448E67E4AFB411",
      "linkageType": "LinkCamera",
      "errorCode": "0"
    }
   ]
  },
 "errorCode": "0"
}
```

5.3.4 Alarm Logs

POST /api/hccgw/alarm/v1/alarmlog

Get the list of alarm logs.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/alarm/v1/alarmlog

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
pageIndex	Req.	Integer	Body	The current page No., which is equal to or greater than 1.
pageSize	Req.	Integer	Body	Number of records on each page, which is between 1 and 500.
timeRange	Req.	***TimeRange***	Body	Time range parameters of device. The time between the start time and end time should be no more than a day.
areaID	Req.	String[]	Body	Area ID.
eventTypeList	Opt.	String[]	Body	See details in ***Alarm Type*** . If this node is not configured, all event types will be included.

Request Example

```
{
  "pageIndex":1,
  "pageSize":5,
  "timeRange":{
    "beginTime":"2023-04-23 00:00:00",
    "endTime":"2023-04-24 00:00:00"
  },
  "areaID":"565623256767",
  "eventTypeList":["10061","10657"]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details).

Parameter	Req. or Opt.	Data Type	Description
			Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-42 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
pageIndex	Req.	Integer	The current page No.
pageSize	Req.	Integer	Number of records on the current page.
moreData	Req.	Integer	Whether it is more than one page: 0-no, 1-yes.
alarmlogList	Req.	*AlarmMsg* []	Alarm log set.

Response Example

```
{
  "data": {
    "pageIndex": 1,
    "pageSize": 1,
    "moreData": 0,
    "alarmLogList": [
      {
        "guid": "9af74b16484d43eaaa64c833c05bcb3a",
        "dataRetransmission": 1,
        "alarmState": "0",
        "pulseAlarm": "0",
        "alarmMainCategory": "alarmCategoryVideo",
        "alarmSubCategory": "alarmCategoryVideo",
        "timeInfo": {
          "startTime": "2023-04-26T04:00:00Z",
          "endTime": "2023-04-26T04:00:15Z"
        },
        "eventSource": {
          "eventType": "100657",
          "sourceID": "a333cd708cd542be975e8f1298cc8aa1",
          "sourceName": "201",
          "sourceType": "camera",
          "areaID": "96c4b7293d4a4a30818c988d1a79b438",
          "areaName": "11",
          "deviceInfo": {
```

```
          "devID": "8838bae9a94b4d0591a13bd16bcebe43",
          "devName": "K44201853",
          "devCategory": "2001"
        }
      },
      "alarmRule": {
        "id": "1650433180307689472",
        "name": "201-Leaving Queue Detection",
        "description": ""
      },
      "alarmPriority": {
        "id": "1",
        "level": "1",
        "levelName": "1",
        "color": "#ff1122"
      },
      "markState": "0",
      "affirmedState": "0",
      "fileInfo": {},
      "queueRelatedInfo": {
        "queueInfo": {
          "regionID": "1",
          "peopleTargetId": 3438,
          "waitTime": 310,
          "startTime": "2023-04-21T10:50:25+08:00",
          "endTime": "2023-04-21T10:55:35+08:00",
          "queueThreshold": 15
        }
      }
    }
  ]
},
"errorCode": "0"
}
```

5.4 Message-Related Services

Message refers to the content uploaded by the device actively when there is no external trigger source.

5.4.1 Message Subscription and Receiving

POST /api/hccgw/rawmsg/v1/mq/subscribe

Subscribe to messages.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/rawmsg/v1/mq/subscribe

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
subscribeType	Req.	Integer	Body	0-cancel subscription, 1-subscribe. The maximum length is 1.
msgType	Req.	String[]	Body	Event type to subscribe to. If this node is empty, all events will be subscribed by default. Refer to ***Message Type*** for details.

Request Example

```
{
  "subscribeType":1,
  "msgType": ["Msg330001","Msg330002"]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.

Response Example

```
{
  "errorCode": "0"
}
```

POST /api/hccgw/rawmsg/v1/mq/messages

After you subscribe to messages, you can get messages manually from the device. It is recommended that the interval of getting messages be 500 ms.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/rawmsg/v1/mq/messages

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **_Status and Error Code_** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-43 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
batchId	Req.	String	Message queue batch processing ID.
event	/	**_Event(1)_** []	Information related to event messages.

Response Example

```
{
  "data": {
    "batchId":
"5823e397664b41e677fab5c4ee6e8c3fc8f60012f480a6c94e40e60501b8b7f59468bcd91f0a6eca6ec6cddf4511a78f",
    "remainingNumber": 0,
```

```
"event": [
  {
    "basicInfo": {
      "occurrenceTime": "2023-05-08 11:15:26",
      "systemId": "855362005e074fbba3f2400d7fba3670",
      "msgType": "Msg330001",
      "resource": {
        "id": "25051e2467f44cf5947493a56921ca4c",
        "name": "111",
        "areaName": "333"
      },
      "device": {
        "id": "0d961d4a05264d4b848522d3414eca3a",
        "name": "K70728087",
        "category": "mobileDevice"
      }
    },
    "data": {
      "vehicleRelatedInfo": {
        "gpsInfo": {
          "ew": "E",
          "lng": "6.943345",
          "ns": "N",
          "lat": "50.331554",
          "direction": 32759,
          "height": 6090,
          "speed": 33333
        },
        "vehicleInfo": {
          "licensePlate": "111",
          "driverName": " ",
          "driverPhone": "",
          "id": "25051e2467f44cf5947493a56921ca4c",
          "speedLimit": 8200000
        }
      }
    }
  },
  {
    "basicInfo": {
      "occurrenceTime": "2023-05-05 11:15:32",
      "systemId": "855362005e074fbba3f2400d7fba3670",
      "msgType": "Msg330502",
      "resource": {
        "id": "25051e2467f44cf5947493a56921ca4c",
        "name": "111",
        "areaName": "333"
      },
      "device": {
        "id": "0d961d4a05264d4b848522d3414eca3a",
        "name": "K70728087",
        "category": "mobileDevice"
```

```
        }
      },
      "picture": [],
      "video": [],
      "data": {
        "vehicleRelatedInfo": {
          "gpsInfo": {
            "ew": "E",
            "lng": "6.943345",
            "ns": "N",
            "lat": "50.331551",
            "direction": 32759,
            "height": 6090,
            "speed": 33333
          },
          "vehicleInfo": {
            "licensePlate": "111",
            "driverName": " ",
            "driverPhone": "",
            "id": "25051e2467f44cf5947493a56921ca4c",
            "speedLimit": 8200000
          }
        }
      },
      "uuid": "ba28708fd5664a7281bc764925d68a28",
      "update": false
    }
  ]
},
"errorCode": "0"
}
```

POST /api/hccgw/rawmsg/v1/mq/messages/complete

Confirm that message consuming is finished according to the input batchId. Without confirming, you will get the same data continuously. After confirming, you will get the new data.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/rawmsg/v1/mq/messages/complete

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
batchId	Req.	String	Body	The returned batchID when getting event messages. The maximum length is 256.

Request Example

```
{

"batchId":"4075e8d16a4b4ce63dabebcdba3cd37e83b65a13edd5b4d34343ef595ab6b5a7946a86e61d086cc86cc4cfdd4713a58d"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.

Response Example

```
{
   "errorCode": "0"
}
```

5.5 Video-Related Services

5.5.1 Recording Schedule and Playback

POST /api/hccgw/video/v1/recordsettings/get

Get the recording schedule.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/video/v1/recordsettings/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
cameraID	Req.	String[]	Body	Camera ID set.

Request Example

```
{
  "cameraId":[
    "2aeec98c14a4427f9ace6c48e91ab4cc"
  ]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **_Status and Error Code_** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-44 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
recordSetting	Req.	***RecordSetting*** []	Recording schedule information.

Response Example

```
{
  "data": {
    "recordSetting": [
      {
        "cameraID": "2aeec98c14a4427f9ace6c48e91ab4cc",
        "enableLocalStorage": 1,
        "localStorage": {
          "scheduleTemplateId": "1",
          "recordingStreamType": 1,
          "postRecordTime": 10,
          "anr": 0,
          "storageTime": 0
        },
        "enableCloudStorage": 0,
        "cloudStorage": {}
      }
    ]
  },
  "errorCode": "0"
}
```

POST /api/hccgw/video/v1/live/address/get

Get the address of live view or playback. You need to use JS SDK for live view and playback.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/video/v1/live/address/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
resourceId	Req.	String	Body	Camera resource ID, which is CameraInfo obtained from /

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				api/hccgw/resource/v1/areas/cameras/get. The maximum length is 64.
deviceSerial	Req.	String	Body	Device serial No. The maximum length is 32.
type	Req.	String	Body	Type: 1 (live view), 2 (playback from local recording), 3 (playback from cloud storage recording). 2 and 3 are both playback types, and are invalid when **protocol** is RTMP.
code	Opt.	String	Body	Password for device recording encryption. The maximum length is 16. The encryption is not supported when **protocol** is RTMP.
protocol	Opt.	Integer	Body	Stream protocol, 1-EZOPEN, 3-RTMP, the default is 1.
quality	Opt.	String	Body	Video quality, 1-HD (main bitrate), 2-Fluent (sub-bitrate), the default is 1.
expireTime	Opt.	Integer	Body	Expiration time, the unit is second; set validity period for RTMP: 30s-720d.
startTime	Opt.	String	Body	Start time of recording playback from local or cloud storage, e.g., 2019-12-01 00:00:00.
stopTime	Opt.	String	Body	End time of recording playback from local or cloud storage, e.g., 2019-12-01 00:00:00.

Request Example

```
{
  "deviceSerial": "L45203285",
  "resourceId": "5ce3cebed0e549938c59034edb5fe290",
```

```
   "type": "1",
   "protocol": 3,
   "quality": 2,
   "expireTime": 600
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-45 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
id	Req.	String	ID.
url	Req.	String	URL.
expireTime	Req.	Integer	Expired time stamp, invalid when **protocol** is EZOPEN.

Response Example

```
{
"data": {
"id": "786192075142131712",
     "url": "rtmp://vtmsgpzl.ezvizlife.com:1935/v3/openlive/L26577519_1_2?
expire=1733720797&id=786192075142131712&c=047020a3b0&t=c17825ce51d23a7bc172912ac7263b352a9640aa78
176ce94f2b13cb4c0b5c52&ev=100",
     "expireTime": 1733720797000
},
"errorCode": "0"
}
```

POST /api/hccgw/video/v1/record/element/search

Search for playback segments.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/video/v1/record/element/search

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
pageSize	Req.	Integer	Body	Number of records on each page.
pageIndex	Req.	Integer	Body	Sarts from 1.
cameraId	Req.	String	Body	Camera resource ID, which is CameraInfo obtained from /api/hccgw/resource/v1/ areas/cameras/get. The maximum length is 64.
filter	Req.	Object	Body	Search condition.
timeType	Req.	Integer	Body	0 (time of client), 1 (time of local device).
beginTime	Req.	String	Body	Start time, in the format of yyyy-MM-ddTHH:mm:ss +08:00.
endTime	Req.	String	Body	End time, in the format of yyyy-MM-ddTHH:mm:ss+08:00.
targetType	Req.	Integer	Body	0 (local device), 1 (cloud storage).

Request Example

```
{
 "pageSize": 10,
 "pageIndex": 1,
 "cameraId": "35cbe44b091044a0924dcc2036848973",
 "filter": {
  "timeType": 1,
  "beginTime": "2024-11-28T00:00:00+08:00",
  "endTime": "2024-11-28T23:00:00+08:00",
  "targetType": 0
 }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-46 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description	
pageSize	Opt.	Integer	Number of records on each page.	
pageIndex	Opt.	Integer	The current page.	
recordSetting	Opt.	***RecordListInfo*** []	Recording schedule information.	

Response Example

```
{
  "data": {
    "pageIndex": 1,
    "pageSize": 10,
    "recordList": [
      {
        "beginTime": "2024-11-28T11:39:14+08:00",
        "endTime": "2024-11-28T23:00:00+08:00",
        "targetType": 0
      },
      {
        "beginTime": "2024-11-28T14:17:43+08:00",
        "endTime": "2024-11-28T14:17:53+08:00",
        "targetType": 0
      }
    ]
  },
"errorCode": "0"
}
```

POST /api/hccgw/video/v1/video/save

Trigger the standard MP4 recording storage function of device, and generate the download URL.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/video/v1/video/save

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
cameraId	Req.	String	Body	Camera resource ID, which is the ID in CameraInfo obtained from /api/hccgw/resource/v1/areas/cameras/get. The maximum length is 64.
beginTime	Req.	String	Body	Start time, in the format of yyyy-MM-ddTHH:mm:ss +08:00.
voiceSwitch	Opt.	Integer	Body	Voice switch for video recording: 0 (off), 1 (on), 2 (auto, by default). The switch control is only supported by AAC and G711A audio format.
beginTime	Req.	String	Body	Start time, in the format of yyyy-MM-ddTHH:mm:ss +08:00.

Request Example

```
{
"cameraId": "35cbe44b091044a0924dcc2036848973",
   "beginTime": "2024-11-28T14:15:41+08:00",
"endTime": "2024-11-28T14:17:43+08:00",
"voiceSwitch": 2
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **_Status and Error Code_** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.
taskId	Opt.	String	Asynchronous task ID, for getting the recording result.

Response Example

```
{
  "data": {
    "taskId": "550596eee62c42c6a0377fcd65912dc5#780eaa6ce4d64eccbe6c334308c10a36"
  },
  "errorCode": "0"
}
```

POST /api/hccgw/video/v1/video/download/url

Get the video recording status and downloading URL.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/video/v1/video/download/url

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	The maximum length is 64.
taskId	Req.	String	Body	Asynchronous task ID, obtained from **_POST /api/hccgw/ video/v1/video/save_** .

Request Example

```
{
"taskId": "550596eee62c42c6a0377fcd65912dc5#780eaa6ce4d64eccbe6c334308c10a36"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-47 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description	
status	Req.	Integer	File status: 0 (uploaded), 1(uploading), 2 (uploading failed), 3 (expired), 4 (deleted).	
expireTime	Req.	Long	Expired time stamp.	
urls	Req.	String[]	Recording URL list.	

Response Example

```
{
  "data": {
    "status": 0,
    "expireTime": 1732792813206,
    "urls": [
      "https://sgp-openteam.s3.ap-southeast-1.amazonaws.com/REC_FILES/
e04aa691be9349e484edf082c31ff6a8/550596eee62c42c6a0377fcd65912dc5/
L45203285-4/780eaa6ce4d64eccbe6c334308c10a36_20241128T141541Z_20241128T141743Z.mp4?X-Amz-
Algorithm=AWS4-HMAC-SHA256&X-Amz-Date=20241128T102013Z&X-Amz-SignedHeaders=host&X-Amz-
Expires=3600&X-Amz-Credential=AKIAZGODXVYYLQULDFHU%2F20241128%2Fap-
southeast-1%2Fs3%2Faws4_request&X-Amz-
```

Signature=b875bcca42ea74470d4767323f76ffb8131f26fae59c83830b5efb5d9b81fb0c"
    ]
  },
  "errorCode": "0"
}

5.6 Video Intercom Services

5.6.1 Buildings and Rooms

POST /api/hccgw/vims/v1/build/search

Search for buildings.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/vims/v1/build/search

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
pageNum	Req.	Integer	Body	Page number.
pageSize	Req.	Integer	Body	Page size.
searchCriteria	Req.	Object	Body	Search condition. Refer to ***BuildingSearchCriteria*** for details.

Request Example

```
{
    "pageNum": 1,
 "pageSize": 64,
 "searchCriteria": {
  "areaId": "-1",
  "isContainSubArea": 1,
  "filterName": ""
 }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-48 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
pageNum	Req.	Integer	Page number.
pageSize	Req.	Integer	Page size.
totalNum	Req.	Integer	Total records.
buildList	Req.	***Building*** []	List of building information.

Response Example

```
{
"data": {
{
 "pageNum": 0,
 "pageSize": 0,
 "totalNum": 0,
 "buildList": [
  {
    "buildId": "",
    "buildName": "",
    "areaId": "",
    "areaName": "",
    "totalRoom": 0,
    "totalPerson": 0,
    "deviceNames": ""
  }
 ]
}
},
"errorCode": "0"
}
```

POST /api/hccgw/vims/v1/room/search

Search for rooms.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/vims/v1/room/search

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
pageNum	Req.	Integer	Body	Page number.
pageSize	Req.	Integer	Body	Page size.
searchCriteria	Req.	Object	Body	Search condition. Refer to ***RoomSearchCriteria*** for details.

Request Example

```
{
  "pageNum": 1,
 "pageSize": 64,
 "searchCriteria": {
  "areaId": "-1",
  "buildId": "",
  "isContainSubArea": 1,
  "filter": {
   "roomNum": "",
   "roomName": "",
   "personAmount": "",
   "email": "",
   "mainAccount": ""
  }
 }}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details).

Parameter	Req. or Opt.	Data Type	Description
			Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-49 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
pageNum	Req.	Integer	Page number.
pageSize	Req.	Integer	Page size.
totalNum	Req.	Integer	Total records.
roomList	Req.	**_RoomVO_** []	List of room information.

Response Example

```
{
"data": {
{
 "pageNum": 0,
 "pageSize": 0,
 "totalNum": 0,
 "roomList": [
  {
    "roomId": "",
    "roomName": "",
    "roomNum": 0,
    "buildId": "",
    "buildName": "",
    "areaId": "",
    "areaName": "",
    "personAmount": 0,
    "mainAccount": "",
    "email": "",
    "phone": ""
  }
 ]
}
},
"errorCode": "0"
}
```

5.6.2 ISAPI Protocol Transmission

POST /api/hccgw/video/v1/isapi/proxypass

Transmit ISAPI protocol transparently.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/video/v1/isapi/proxypass

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
method	Req.	String	Body	Method (GET, POST, PUT, and DELETE).
url	Req.	String	Body	URL.
id	Req.	String	Body	Device ID.
contentType	Req.	String	Body	application/xml, application/json, and application/x-www-form-urlencoded are supported.
body	Opt.	String	Body	Request parameters.

Request Example

```
{
    "method": "GET",
    "url": "/ISAPI/PTZCtrl/channels/2/presets/1",
    "id": "85cff214670c4bc69a8d7436fb93576c",
    "contentType": "application/xml",
    "body": ""
}
{
    "method": "GET"
    "url": "/ISAPI/PTZCtrl/channels/2/presets"
    "deviceSerial": "85cff214670c4bc69a8d7436fb93576c"
    "contentType": "application/xml"
}
{
    "method": "POST"
```

```
    "url": "/ISAPI/PTZCtrl/channels/2/presets"
    "deviceSerial": "85cff214670c4bc69a8d7436fb93576c"
    "contentType": "application/xml"
}
{

    "method": "DELETE"
    "url": "/ISAPI/PTZCtrl/channels/2/presets"
    "deviceSerial": "85cff214670c4bc69a8d7436fb93576c"
    "contentType": "application/xml"
}
{

    "method": "PUT"
    "url": "/ISAPI/PTZCtrl/channels/1/auxcontrols/1"
    "deviceSerial": "85cff214670c4bc69a8d7436fb93576c"
    "contentType": "application/xml",
    "body": "<PTZAux><type>WIPER</type><status>on</status></PTZAux>"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **_Status and Error Code_** for details). Each code can contain up to 32 characters.
message	Req.	String	Prompt message.
data	Req.	String	Data returned by the successful request.

Response Example

```
{
    "data": "<?xml version=\"1.0\" encoding=\"UTF-8\" ?><ResponseStatus version=\"2.0\" xmlns=\"http://
www.isapi.org/ver20/XMLSchema\"><requestURL>/ISAPI/PTZCtrl/channels/2/presets/1</
requestURL><statusCode>4</statusCode><statusString>Invalid Operation</
statusString><subStatusCode>notSupport</subStatusCode></ResponseStatus>",
    "errorCode": "0"
}
```

POST /api/hccgw/proxy/v1/isapi/proxypass

Transmit ISAPI protocol transparently.

⚠️**Note**

This API shares the same request and response parameters with **_POST /api/hccgw/video/v1/ isapi/proxypass_** , and the parameters are transparently transmitted directly from OpenAPI to Hik-Connect.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/proxy/v1/isapi/proxypass

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
method	Req.	String	Body	Method (GET, POST, PUT, and DELETE).
url	Req.	String	Body	URL.
id	Req.	String	Body	Device ID.
contentType	Req.	String	Body	application/xml, application/ json, and application/x-www-form-urlencoded are supported.
body	Opt.	String	Body	Request parameters.

Request Example

```
{
   "method": "GET",
   "url": "/ISAPI/PTZCtrl/channels/2/presets/1",
   "id": "85cff214670c4bc69a8d7436fb93576c",
   "contentType": "application/xml",
   "body": ""
}
{
   "method": "GET"
   "url": "/ISAPI/PTZCtrl/channels/2/presets"
   "deviceSerial": "85cff214670c4bc69a8d7436fb93576c"
   "contentType": "application/xml"
}
{
   "method": "POST"
   "url": "/ISAPI/PTZCtrl/channels/2/presets"
```

```
    "deviceSerial": "85cff214670c4bc69a8d7436fb93576c"
    "contentType": "application/xml"
}
{

    "method": "DELETE"
    "url": "/ISAPI/PTZCtrl/channels/2/presets"
    "deviceSerial": "85cff214670c4bc69a8d7436fb93576c"
    "contentType": "application/xml"
}
{

    "method": "PUT"
    "url": "/ISAPI/PTZCtrl/channels/1/auxcontrols/1"
    "deviceSerial": "85cff214670c4bc69a8d7436fb93576c"
    "contentType": "application/xml",
    "body": "<PTZAux><type>WIPER</type><status>on</status></PTZAux>"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
message	Req.	String	Prompt message.
data	Req.	String	Data returned by the successful request.

Response Example

```
{
    "data": "<?xml version=\"1.0\" encoding=\"UTF-8\" ?><ResponseStatus version=\"2.0\" xmlns=\"http://
www.isapi.org/ver20/XMLSchema\"><requestURL>/ISAPI/PTZCtrl/channels/2/presets/1</
requestURL><statusCode>4</statusCode><statusString>Invalid Operation</
statusString><subStatusCode>notSupport</subStatusCode></ResponseStatus>",
    "errorCode": "0"
}
```

POST /api/hccgw/proxy/v1/areas/alarminputs/status/get

Get alarm input status.

ⓘNote

This API shares the same function with ***POST /api/hccgw/resource/v1/areas/alarminputs/ status/get*** (only difference: the request parameter **alarmIntputId** and **alarmIntputID**), and the parameters are transparently transmitted directly from OpenAPI to Hik-Connect.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/proxy/v1/areas/alarminputs/status/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
alarmIntputId	Req.	Array[String]	Body	Alarm input ID set. You can get status of up to 8 resources at the same time.

Request Example

```
{
   "alarmInputId": [
     "2c0a4ab9a2504de4842d95435f3a8620",
     "b35b8e9a9326418ca2198ed45709b5bd"
]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-50 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
alarmInput	Req.	*__AlarmInputInfo__* []	Returned alarm input status. If the requested alarm input ID does not exist, the returned information will not include the corresponding alarm input information.

Response Example

```
{
  "data": {
    "alarmInput": [
      {
        "id": "0da41f0ac59c4debade796914f874148",
        "status": 2,
        "errorCode": "0"
      },
      {
        "id": "3d75a50c0ae84fc99c19581ef82d1b29",
        "status": 1,
        "errorCode": "0"
      }
    ]
  },
  "errorCode": "0"
}
```

5.6.3 Residents

POST /api/hccgw/vims/v1/person/search

Search for residents.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/vims/v1/person/search

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
pageNum	Req.	Integer	Body	Page number.
pageSize	Req.	Integer	Body	Page size.
searchCriteria	Req.	Object	Body	Search condition. Refer to ***ResidentSearchRequest*** for details.

Request Example

```
{
  "pageNum": 0,
 "pageSize": 0,
 "searchRequest": {
  "areaId": "",
  "buildId": "",
  "isContainSubArea": 0,
  "filter": {
   "name": "",
   "roomNum": 0,
   "email": "",
   "phone": "",
   "type": 0,
   "isExpired": 0
  }
 }}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-51 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
pageNum	Req.	Integer	Page number.
pageSize	Req.	Integer	Page size.
totalNum	Req.	Integer	Total records.
personList	Req.	***Person***	List of person information.

Response Example

```
{
"data": {
{
 "pageNum": 0,
 "pageSize": 0,
 "totalNum": 0,
 "personList": [
  {
   "personId": "",
   "firstName": "",
   "lastName": "",
   "phone": "",
   "email": "",
   "isExpired": 0,
   "photoUrl": "",
   "headPicUrl": "",
   "roomList": [
    {
     "roomId": "",
     "roomNum": 0,
     "roomName": "",
     "areaId": "",
     "areaName": "",
     "buildId": "",
     "buildName": "",
     "accountType": 0
    }
   ]
  }
 ]
}
},
"errorCode": "0"
}
```

POST /api/hccgw/vims/v1/person/add

Add a resident.

Request URL

Note

Refer to ***Add Resident*** for specific guidance.

---

https://[serverAddress]:[serverPort]/api/hccgw/vims/v1/person/add

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
alIds	Opt.	String[]	Body	Access level ID.
language	Opt.	String	Body	Language used for sending emails to the resident, for example, zh_CN (Chinese). If this parameter is empty, the default language will be en (English).
				If the resident is added from the existing persons, this parameter is not required to be filled in.
				List of languages: en (English), it (Italiano), es (Español), de (Deutsch), fr (Français) pl (Polski), nl (Nederlands), pt (Português), ru (Русский), tr (Türkçe), ko (한국어), zh_TW (繁體中文), zh_CN (简体中文), th (ภาษาไทย), vi (Tiếng Việt), ja (日本語), pt_BR (Português(Brasil)), ar (العربية), id (Bahasa Indonesia)

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
personBaseInfo	Req.	***PersonDTO***	Body	Person basic information.
roomList	Req.	***RoomDTO*** []	Body	Resident room information.

Request Example

```
{
  "personBaseInfo": {
  "id": "",
  "personCode": "",
  "groupId": "",
  "firstName": "",
  "lastName": "",
  "gender": 0,
  "phone": "",
  "email": "",
  "description": "",
  "startDate": "",
  "endDate": ""
  },
  "alIds": [
   ""
  ],
  "roomList": [
   {
    "roomId": "",
    "roomNum": 0,
    "buildId": "",
    "buildName": "",
    "areaId": "",
    "areaName": "",
    "accountType": 0
   }
  ],
  "language": ""
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details).

Parameter	Req. or Opt.	Data Type	Description
			Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-52 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
personId	Req.	String	Person ID.
failedResultList	Opt.	***FailedResult*** []	The error list is returned only when the number of persons exceeds the limit.

Response Example

```
{
"data": {
 "personId": ""
},
"errorCode": "0"
}
```

POST /api/hccgw/vims/v1/person/update

Update a resident.

Request URL

Note

Refer to ***Update Resident*** for specific guidance.

https://[serverAddress]:[serverPort]/api/hccgw/vims/v1/person/update

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
alIds	Opt.	String[]	Body	Access level ID.
personBaseInfo	Req.	Object	Body	Person basic information. Refer to ***PersonDTO*** for details.
roomList	Req.	***RoomDTO*** []	Body	Resident room information.

Request Example

```
{
  "personBaseInfo": {
  "id": "",
  "personCode": "",
  "groupId": "",
  "firstName": "",
  "lastName": "",
  "gender": 0,
  "phone": "",
  "email": "",
  "description": "",
  "startDate": "",
  "endDate": ""
  },
  "alIds": [
  ""
  ],
  "roomList": [
  {
    "roomId": "",
    "roomNum": 0,
    "buildId": "",
    "buildName": "",
    "areaId": "",
    "areaName": "",
    "accountType": 0
  }
  ],
  "language": ""
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **_Status and Error Code_** for details). Each code can contain up to 32 characters.

Response Example

```
{
"errorCode": "0"
}
```

POST /api/hccgw/vims/v1/person/delete

Delete a resident.

Request URL

ⓘNote

This API only deletes the linkage between the resident and the room(s). To completely delete the person, refer to **_POST /api/hccgw/person/v1/persons/delete_** .

https://[serverAddress]:[serverPort]/api/hccgw/vims/v1/person/delete

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
deleteList	Req.	String[]	Body	ID of the resident to be deleted.

Request Example

```
{
   "deleteList": ["string1"]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.

Response Example

```
{
"errorCode": "0"
}
```

5.6.4 Temporary Passes

A temporary pass contains a password and a QR code. A person with a temporary access need (e.g., delivery person) can use the temporary pass to unlock doors according to the set access level.

POST /api/hccgw/vims/v1/tempauth/get

Get temporary passes.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/vims/v1/tempauth/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
id	Req.	String	Body	Temporary pass ID (temporary person ID).
clientLocalTime	Req.	String	Body	Request time (in ISO 8601 format). Refer to ***ISO 8601 Time Format Instruction*** for details.

Request Example

```
{
  "id": "237160983473358848",
  "clientLocalTime": "2022-10-28T11:08:23+08:00"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **_Status and Error Code_** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-53 data Object Description

Parameter	Req. or Opt.	Data Type	Description
openCount	Req.	Integer	Allowed passes for each door.
name	Req.	String	Temporary pass name.
startTime	Req.	Long	Start time of the validity period (unit: ms).
endTime	Req.	Long	End time of the validity period (unit: ms).
code	Req.	String	base64.
creatorId	Req.	String	Creator ID.
creatorName	Req.	String	Creator name.
expiredStatus	Req.	Integer	Expiry status: 1-expired, 0-valid.
password	Req.	String	Password to open the door.
accessLevelList	Req.	**_AccessLevel_**	Access level information.

Response Example

```
{
"data": {
```

```
{
 "openCount": 0,
 "name": "",
 "startTime": 0,
 "endTime": 0,
 "code": "",
 "creatorId": "",
 "creatorName": "",
 "expiredStatus": 0,
 "password": "",
 "accessLevelList": [
   {
     "accessLevelId": "",
     "accessLevelName": ""
   }
 ]
}"
},
"errorCode": "0"
}
```

POST /api/hccgw/vims/v1/tempauth/list

Search for temporary passes.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/vims/v1/tempauth/list

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
pageNum	Req.	Integer	Body	Page number.
pageSize	Req.	Integer	Body	Page size.
searchRequest	Opt.	Object	Body	Search conditions. Refer to ***TempAuthSearchRequest*** for details.

Request Example

```
{
  "pageNum": 0,
```

```
"pageSize": 0,
"searchRequest": {
 "filter": {
   "name": ""
  }
}}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-54 data Object Description

Parameter	Req. or Opt.	Data Type	Description
pageNum	Req.	Integer	Page number.
pageSize	Req.	Integer	Page size.
totalNum	Req.	Integer	Total records.
tempAuthList	Req.	***TempAuth*** []	List of temporary passes.

Response Example

```
{
"data": {
{
 "pageNum": 0,
 "pageSize": 0,
 "totalNum": 0,
 "tempAuthList": [
   {
     "id": "",
     "name": "",
     "openCount": 0,
     "creatorId": "",
     "creatorName": "",
     "password": "",
     "creatorEmail": "",
```

```
    "startDate": 0,
    "endDate": 0,
    "expiredStatus": 0
  }
 ]
}
},
"errorCode": "0"
}
```

POST /api/hccgw/vims/v1/tempauth/add

Add temporary passes.

Request URL

Note

Refer to **_Add Temporary Pass_** for specific guidance.

https://[serverAddress]:[serverPort]/api/hccgw/vims/v1/tempauth/add

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
name	Req.	String	Body	Temporary pass name. The maximum length is 32.
openCount	Req.	Integer	Body	Allowed passes for each door. The range is between 1 and 200.
startTime	Req.	String	Body	Start time of validity period (unit: ms, in ISO 8601 format). Refer to **_ISO 8601 Time Format Instruction_** for details.
endTime	Req.	String	Body	End time of validity period (unit: ms, in ISO 8601 format). Refer to **_ISO 8601 Time Format Instruction_** for details.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
clientLocalTime	Req.	String	Body	Request time (in ISO 8601 format). Refer to ***ISO 8601 Time Format Instruction*** for details.
alIds	Opt.	String[]	Body	List of access level ID. Required for the Portal, optional for the Mobile Client.

Request Example

```
{
  "name": "",
 "openCount": 0,
 "startTime": "",
 "endTime": "",
 "clientLocalTime": "",
 "alIds": [
   ""
 ]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-55 data Object Description

Parameter	Req. or Opt.	Data Type	Description
id	Req.	String	Temporary pass ID.
openCount	Req.	Integer	Times of opening door.

Parameter	Req. or Opt.	Data Type	Description
name	Req.	String	Temporary pass name.
startTime	Req.	Long	Start time of validity period (unit: ms).
endTime	Req.	Long	End time of validity period (unit: ms).
code	Req.	String	Base64 encoding.
creatorId	Req.	String	Creator ID.
creatorName	Req.	String	Creator name.
expiredStatus	Req.	Integer	Expiry status: 1-expired, 0-valid.
password	Req.	String	Password to open the door.
accessLevelList	Opt.	***AccessLevel*** []	Access level information.

Response Example

```
{
"data": {
 {
"id": "",
 "openCount": 0,
 "name": "",
 "startTime": 0,
 "endTime": 0,
 "code": "",
 "creatorId": "",
 "creatorName": "",
 "expiredStatus": 0,
 "password": "",
 "accessLevelList": [
   {
     "accessLevelId": "",
     "accessLevelName": ""
   }
 ]
}"
},
"errorCode": "0"
}
```

POST /api/hccgw/vims/v1/tempauth/update

Update temporary passes.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/vims/v1/tempauth/update

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
id	Req.	String	Body	Temporary pass ID.
name	Req.	String	Body	Temporary pass name. The maximum length is 32.
openCount	Req.	Integer	Body	Allowed passes for each door. The range is between 1 and 200.
startTime	Req.	String	Body	Start time of validity period (in ISO 8601 format). Refer to *__ISO 8601 Time Format Instruction__* for details.
endTime	Req.	String	Body	End time of validity period (in ISO 8601 format). Refer to *__ISO 8601 Time Format Instruction__* for details.
clientLocalTime	Req.	String	Body	Current time of the request (in ISO 8601 format). Refer to *__ISO 8601 Time Format Instruction__* for details.
alIds	Opt.	String	Body	List of access level ID. Required for the Portal, optional for the Mobile Client.

Request Example

```
{
  "id": "",
  "name": "",
 "openCount": 0,
 "startTime": "",
 "endTime": "",
 "clientLocalTime": "",
```

```
"allds": [
  ""
 ]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.

Response Example

```
{
"errorCode": "0"
}
```

POST /api/hccgw/vims/v1/tempauth/delete

Delete temporary passes.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/vims/v1/tempauth/delete

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
deleteList	Req.	String[]	Body	List of temporary pass ID.

Request Example

```
{
  "deleteList": ["string1"]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.

Response Example

```
{
"errorCode": "0"
}
```

5.6.5 Video Intercom Calls

POST /api/hccgw/devcall/v1/call/receive

Respond to calls.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/devcall/v1/call/receive

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
recordId	Req.	String	Body	Call record ID. The maximum length is 64.
status	Req.	Integer	Body	Operation type: 1-answer (when receiving calls), 2-not answer (when receiving calls),

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				3-hang up (after the call is picked up).
userId	Req.	String	Body	User ID of the called resident, which can be obtained from ***POST /api/hccgw/ platform/v1/users/get*** .

Request Example

```
{
 "recordId": "",
 "userId": "",
 "status": "2"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.

Response Example

```
{
"errorCode": "0"
}
```

5.7 Access Control Services

5.7.1 POST /api/hccgw/acs/v1/remote/control

Open door remotely.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/acs/v1/remote/control

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
remoteControl	Req.	***RemoteControl***	Body	Operation content.

Request Example

```
{
 "remoteControl": {
 "actionType": 1,
 "elementlist": [],
 "direction": 0,
 "areaId": "",
 "depthTraversal": 0
 }}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-56 data Object Description

Parameter	Req. or Opt.	Data Type	Description
operationResult	Req.	***RemoteControlResponse*** []	List of failures. If this parameter is empty, the operation succeeded.

Response Example

```
{
"data": {
```

```
{
 "operationResult": [
  {
   "elementId": "",
   "elementName": "",
   "areaId": "",
   "areaName": "",
   "errorCode": ""
  }
 ]
}
},
"errorCode": "0"
}
```

5.7.2 GET /api/hccgw/acs/v1/encryptinfo/get

Get system Bluetooth encryption key.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/acs/v1/encryptinfo/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-57 data Object Description

Parameter	Req. or Opt.	Data Type	Description
encryptType	Req.	String	Encryption type (AES128_CBC).
authData	Req.	String	Authentication information (32-byte hex data).
vector	Req.	String	Initialized vector (32-byte hex data).
loopCount	Req.	Integer	Times of loop when generating the encryption key.

Response Example

```
{
"data": {
 "encryptType": "",
 "authData": "",
 "vector": "",
 "loopCount": 0
},
"errorCode": "0"
}
```

5.7.3 POST /api/hccgw/acs/v1/event/certificaterecords/search

Search for access control card swiping records. Search for corresponding access control card swiping records by page according to start time and end time, access point ID, event type, and person name.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/acs/v1/event/certificaterecords/search

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
pageIndex	Opt.	Integer	Body	The current page. The default value is 1.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
pageSize	Opt.	Integer	Body	Number of records on each page, which is between 1 and 200.
searchCriteria	Opt.	Object	Body	Conditions for searching for card swiping records.

Table 5-58 searchCriteria Details

Parameter	Req. or Opt.	Data Type	Description
beginTime	Opt.	String	Begin time, ISO time format, e.g.: 2023-10-21T11:08:23+08:00.
endTime	Opt.	String	End time, ISO time format, e.g.: 2023-10-21T11:08:23+08:00.
type	Opt.	Integer	Searching time type, 0: client time, 1: device time, 0 by default.
eventTypes	Opt.	String	Event type, seperate by comma.
swipeAuthResult	Opt.	Integer	Authentication result, 0: all, 1: succeed, 2: fail.
elementIDs	Opt.	String	Access control point, seperate by comma.
searchType	Opt.	Integer	0: search by person, 1: search by card number, 0 by default.
personCondition	Opt.	Object	Person searching condition. It is valid when searchType equals 0. Details are as follows.
cardNumber	Opt.	String	Card number. It is valid when searchType is 1.
temperatureStatus	Opt.	Integer	Temperature status, 0-all, 1-normal, 2-exception, 3-unknown.
maskStatus	Opt.	Integer	Mask status, 0-all, 1-unknown, 2-no mask, 3-wearing mask.

Table 5-59 personCondition Details

Parameter	Req. or Opt.	Data Type	Description
personIds	Opt.	String	Person ID conflicts with person name, separated by comma.
personName	Opt.	String	Person name, fuzzy search.

Request Example

```
{
    "pageIndex":1,
    "pageSize":20
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
errorMsg	Req.	String	Error message.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Parameter	Req. or Opt.	Data Type	Description
recordList	Req.	***RecordInfo*** []	Department list.
pageIndex	Req.	Integer	Page No.
pageSize	Req.	Integer	Items per page.
totalNum	Req.	Integer	Total number.

Response Example

```
{
"errorCode": "0",
"errorMsg": "",
```

```
"data": {
    "totalNum":4,
    "pageIndex":1,
    "pageSize":1,
    "recordList": []
}
}
```

5.7.4 POST /api/hccgw/acspm/v1/accesslevel/list

Get access level list of the system by condition. Currently add access level only via HCC/HCT. Users can contact technical support for guidance and help.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/acspm/v1/accesslevel/list

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
accessLevelSearchRequest	Req.	String	***AccessLevelSearchRequest***	Request packet body.

Request Example

```
{
    "accessLevelSearchRequest":{
        "pageIndex":1,
        "pageSize":20,
        "searchCriteria":{
            "accessLevelName":"",
          "associateResInfoList":[ ]
    }
    }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer

Parameter	Req. or Opt.	Data Type	Description
			to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
errorMsg	Req.	String	Error message.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Parameter	Req. or Opt.	Data Type	Description
accessLevelResponse	Req.	***AccessLevelResponse***	AccessLevel list.
pageIndex	Req.	Integer	Page No.
pageSize	Req.	Integer	Items per page.
totalNum	Req.	Integer	Total number.

Response Example

```
{
"errorCode": "0",
"errorMsg": "",
"data": {
    "accessLevelResponse":{
    "pageIndex":1,
    "pageSize":1,
    "totalNum": 1,
    "accessLevelList":[]
}
}
}
```

5.7.5 POST /api/hccgw/acspm/v1/maintain/overview/person/{id}/elementdetail

Get access level apply information of the person according to person ID.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/acspm/v1/maintain/overview/person/{id}/ elementdetail

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
personId	Req.	String	Url Param	Person ID
returnSuccess	Opt.	Boolean	Body	Whether to return success information. It is false by default (not returned).

Request Example

```
POST /api/hccgw/acspm/v1/maintain/overview/person/111222333/elementdetail
{
"returnSuccess": false
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
errorMsg	Req.	String	Error message.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Parameter	Req. or Opt.	Data Type	Description
elementDetailList	Req.	***ElementDetail*** []	ElementDetail list.

Response Example

```
{
"errorCode": "0",
"errorMsg": "",
"data": {
```

```
    "elementDetailList": [
      {
        "id": "3e252f4f3e1a4831850abc06778fa484",
        "name": "AF6590718-Door 1",
        "type": 0,
        "elementStatus": {
          "errorCode": "",
          "status": 2
        },
        "certificateStatusList": [
          {
            "id": "377772357428962304",
            "errorCode": "THD_ISAPI_0x60000037",
            "status": 2,
            "type": 2
          }
        ]
      }
    ] }
}
```

5.7.6 POST /api/hccgw/acspm/v1/accesslevel/person/add

Add access level by person.

Request URL

https://[serverAddress]:[serverPort] /api/hccgw/acspm/v1/accesslevel/person/add

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
personList	Req.	Object[]	Body	List corresponding to person and access level.

Table 5-60 Object Description

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
personId	Opt.	String	Header	Person ID, which contains 1 to 18 digits.
accessLevelIdLi st	Opt.	String[]	Body	Access level list. Each access level ID should contain 1 to 18 digits.

Request Example

```
{
"personList":[{
"personId":"aaaa",
"accessLevelIdList": ["222","333"]
}
]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.
Data	Opt.	Object[]	Data returned by the successful request. See details in the data Object Description below.

Table 5-61 Object Description

Parameter	Req. or Opt.	Data Type	Description
accessLevelFailed	Opt.	***AccessLevelFailed*** []	List of access level assigning failures.

Response Example

```
{
"errorCode": "0"
}
```

5.7.7 POST /api/hccgw/acspm/v1/accesslevel/person/delete

Remove access level by person.

Request URL

https://[serverAddress]:[serverPort] /api/hccgw/acspm/v1/accesslevel/person/delete

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
personList	Req.	Object[]	Body	List corresponding to person and access level.

Table 5-62 Object Description

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
personId	Opt.	String	Body	Person ID, 1-18 digits.
accessLevelIdList	Opt.	String[]	Body	Access level list. Each access level ID should contain 1-18 digits.
deleteAll	Opt.	boolean	Body	Whether to delete all. accessLevelIdList is invalid when it is true.

Request Example

```
{
"personList":[{
"personId":"aaaa",
"deleteAll":false,
"accessLevelIdList": ["222","333"]
}
```

```
]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.
Data	Opt.	Object[]	Data returned by the successful request. See details in the data Object Description below.

Table 5-63 Object Description

Parameter	Req. or Opt.	Data Type	Description
accessLevelFailed	Opt.	***AccessLevelFailed*** []	List of access level assigning failures.

Response Example

```
{
"errorCode": "0"
}
```

5.7.8 POST /api/hccgw/acspm/v1/accesslevel/person/modify

Assign access level by person.

Request URL

https://[serverAddress]:[serverPort] /api/hccgw/acspm/v1/accesslevel/person/modify

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
personList	Req.	Object[]	Body	List corresponding to person and access level.

Table 5-64 Object Description

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
personId	Opt.	String	Body	Person ID, 1-18 digits.
accessLevelIdList	Opt.	String[]	Body	Person full access level list. Back-end check adding and deleting according to history data. Access level ID should contain 1-18 digits.
deleteAll	Opt.	boolean	Body	Whether to delete all. accessLevelIdList is invalid when it is true.

Request Example

```
{
"personList":[{
"personId":"aaaa",
"deleteAll":false,
"accessLevelIdList": ["222","333"]
}
]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details).

Parameter	Req. or Opt.	Data Type	Description
			Each code can contain up to 32 characters.
Message	Opt.	String	Error message.
Data	Opt.	Object[]	Data returned by the successful request. See details in the data Object Description below.

Table 5-65 Object Description

Parameter	Req. or Opt.	Data Type	Description
accessLevelFailed	Opt.	***AccessLevelFailed*** []	List of access level assigning failures.

Response Example

```
{
"errorCode": "0"
}
```

5.8 Person-Related Services

5.8.1 POST /api/hccgw/person/v1/groups/search

Get department list. Currently department can only be configured on HCC/HCT. Contact technical support when adding departments.

Request URL

Please refer to ***Add Person*** .
https://[serverAddress]:[serverPort]/api/hccgw/person/v1/groups/search

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
parentGroupId	Opt.	String	Body	Parent node ID. If this parameter is empty, the department in the root directory will be included.
groupName	Opt.	String	Body	Department name for fuzzy search. The maximum length is 64.
depthTraversal	Opt.	Bool	Body	Whether to enable deep search: true, false. The default option is false. (True-return including parentGroupId and all sub-nodes, false-including parentGroupId and lower-level sub-nodes, false by default.)
groupIdList	Opt.	Array[String]	Body	Department ID list. Used for getting department information. (If this parameter exists, parameters above are invalid. Search only by groupId.)

Request Example

```
{
  "parentGroupId": "",
  "groupName": "",
  "depthTraversal": "",
  "groupIdList": ["111"]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
errorMsg	Req.	String	Error message.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-66 data Object Description

Parameter	Req. or Opt.	Data Type	Description
personGroupList	Req.	***PersonGroup*** []	Department list.

Response Example

```
{
"errorCode": "0",
"errorMsg": "",
"data": {
  "personGroupList": [
  {
    "groupId": "",
    "groupName": "",
    "parentId": "",
    "childNodeExist": "",
    "permissionState": "",
"description": "",
"areaList": [{
  "areaId": ""
}],
"groupFullPath": ""
  }
 ]
}
}
```

5.8.2 POST /api/hccgw/person/v1/persons/add

Add a person on the platform.

Request URL

Please refer to ***Add Person*** .
https://[serverAddress]:[serverPort]/api/hccgw/person/v1/persons/add

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
groupId	Req.	String	Body	Person group ID.
personCode	Req.	String	Body	Employee No., 1-16 characters, digits and letters allowed, which should be unique.
firstName	Req.	String	Body	First name, no more than 255 characters. First name and last name should be no more than 255 characters.
lastName	Req.	String	Body	Last name, no more than 255 characters. First name and last name should be no more than 255 characters.
gender	Req.	Integer	Body	0-female, 1-male, 2-unknown.
phone	Opt.	String	Body	Phone number, no more than 32 characters.
email	Opt.	String	Body	Email address, no more than 64 characters.
description	Opt.	String	Body	Description, no more than 128 characters.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
startDate	Req.	String	Body	Validity period start date, ISO time format, e.g.: 2022-10-21T11:08:23+08:00.
endDate	Req.	String	Body	Validity period end date, ISO time format, e.g.: 2023-10-21T11:08:23+08:00. The year should be no more than 2037. After the validity period, person and person on the device will not be deleted, but authentication via fingerprint, swiping card, PIN code, and face picture are not allowed on the device.

Request Example

```
{
    "groupId": "378117915440051200",
    "firstName": "test",
    "lastName":"",
    "gender": 2,
    "personCode":"odhdf888",
    "phone": "110",
    "email": "test@email.com",
    "description": "",
    "startDate": "2022-02-21T20:12:45+08:00",
    "endDate": "2032-02-21T20:12:45+08:00"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details).

Parameter	Req. or Opt.	Data Type	Description
			Each code can contain up to 32 characters.
message	Opt.	String	Error message.
data	Opt.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-67 data Object Description

Parameter	Req. or Opt.	Data Type	Description
personId	Req.	String	Person ID added.
personCode	Req.	String	Employee No. added.

Response Example

```
{
  "data": {
    "personId": "379224379437087745",
    "personCode": "0dhdf888"
  },
  "errorCode": "0"
}
```

5.8.3 POST /api/hccgw/person/v1/persons/update

Update person's basic information. If person has been applied to device, the information will be modified on device as well.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/person/v1/persons/update

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
groupId	Req.	String	Body	Person group ID.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
firstName	Req.	String	Body	First name, no more than 255 characters. First name and last name should be no more than 255 characters.
lastName	Req.	String	Body	Last name, no more than 255 characters. First name and last name should be no more than 255 characters.
gender	Req.	Integer	Body	0-female, 1-male, 2-unknown.
phone	Opt.	String	Body	Phone number, no more than 32 characters.
email	Opt.	String	Body	Email address, no more than 64 characters.
description	Opt.	String	Body	Description, no more than 128 characters.
startDate	Req.	String	Body	Validity period start date, ISO time format, e.g.: 2022-10-21T11:08:23+08:00.
endDate	Req.	String	Body	Validity period end date, ISO time format, e.g.: 2023-10-21T11:08:23+08:00. The year should be no more than 2037.
personCode	Req.	String	Body	Employee No., returned after the person is added. If the person is added but not recorded, you can search via ***POST /api/hccgw/person/v1/ persons/get*** or ***POST /api/ hccgw/person/v1/persons/ list*** . The employee No. cannot be edited.
personId	Req.	String	Body	Person ID, returned after the person is added. If the person is added but not recorded,

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				search via ***POST /api/hccgw/ person/v1/persons/list*** .

Request Example

```
{
"groupId": "1",
   "firstName": "test1",
   "lastName":"test12",
   "gender": 2,
   "phone": "110",
   "email": "test@email.com",
   "startDate": "2022-02-21T20:12:45+08:00",
   "endDate": "2032-02-21T20:12:45+08:00",
   "personCode":"odhdf888",
   "personId":"399996371484193792"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.

Response Example

```
{
"errorCode": "0"
}
```

5.8.4 POST /api/hccgw/person/v1/persons/photo

Update face pictures of persons. If the person has been applied to the device, the face picture information of the person will be updated.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/person/v1/persons/photo

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64 characters.
personId	Req.	String	Body	Person ID.
photoData	Req.	String	Body	Face picture data encoded by Base 64. The face picture size is not limited. If the picture size exceeds 200K, the picture will be compressed.

Request Example

```
{
  "personId":"381019761745728512",
  "photoData":"ddd"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.

Response Example

```
{
"errorCode": "0"
}
```

5.8.5 POST /api/hccgw/person/v1/persons/fingercollect

Collect fingerprints of persons. The device should support collecting fingerprints and has been added to HCC/HCT beforehand.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/person/v1/persons/fingercollect

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
deviceSerial	Req.	String	Body	Collection device serial No.

Request Example

```
{
"deviceSerial": "378117915440051200"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **_Status and Error Code_** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.
Data	Opt.	Object	Data returned by the successful request. See details in the Data Object Description below.

Table 5-68 Data Object Description

Parameter	Req. or Opt.	Data Type	Description
fingerData	Opt.	String	Fingerprint data.
fingerQuality	Opt.	Integer	Fingerprint quality. Range of value: [1, 100]. It is used to evaluate finger quality. The higher the value, the more accurate the fingerprint recognition. It is recommended to use the fingerprint of quality above 80.

Response Example

```
{
"errorCode": "0",
"data": {
 "fingerData": "aaaa",
 "fingerQuality": 100
 }
}
```

5.8.6 POST /api/hccgw/person/v1/persons/updatefingers

Update fingerprints of persons. Fingerprints are collected by device.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/person/v1/persons/updatefingers

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
personId	Req.	String	Body	Person ID.
fingerList	Opt.	Object[]	Body	Fingerprint list of person. If this node is not uploaded or set, all fingerprint data of the person will be deleted. Up to 2 fingerprints can be configured for one person. If you need to reserve only one fingerprint of two, you should upload the fingerprint data (id, name, and data) of the fingerprint to be reserved.

Table 5-69 fingerList Object Description

Parameter	Req. or Opt.	Data Type	Description
id	Opt.	String	Fingerprint ID. If this node is not uploaded, it means adding the fingerprint by default, otherwise it means editing the fingerprint.
name	Req.	String	Fingerprint name. It is used to record which finger the fingerprint belongs to. The maximum length is 32.
data	Req.	String	Fingerprint data (hexadecimal data). The maximum length is 1024.

Request Example

```
{
 "personId":"377140151211762688",
 "fingerList":[{
   "data":"90030500A3B1564620B3A616A0A7246092E00000000000397",
   "name":"ssssss"
 }]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **Status and Error Code** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.
Data	Opt.	Object	Data returned by the successful request. See details in the Data Object Description below.

Table 5-70 Data Object Description

Parameter	Req. or Opt.	Data Type	Description
fingerFailed	Opt.	*FingerFailed*	Fingerprint data error list.

Response Example

```
{
 "errorCode":"0",
 "data":{
  "fingerFailed":{
   "personId":"",
   "personName":"",
   "errorCode ":"0",
   " fingerList ":[{
    "id":"0",
    "failedName":"0",
    "errorCode":"CCF000000"
   }]
  }
```

```
  }
}
```

5.8.7 POST /api/hccgw/person/v1/persons/cardcollect

Collect card information of persons. The device should support collecting card information and has been added to HCC/HCT beforehand.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/person/v1/persons/cardcollect

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
deviceSerial	Req.	String	Body	Collection device serial No.

Request Example

```
{
  "deviceSerial": "378117915440051200"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **_Status and Error Code_** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.
Data	Opt.	Object	Data returned by the successful request. See details in the Data Object Description below.

Table 5-71 Data Object Description

Parameter	Req. or Opt.	Data Type	Description
cardNo	Opt.	String	The returned card No.

Response Example

```
{
 "errorCode":"0",
 "data":{
   "cardNo":"666"
 }
}
```

5.8.8 POST /api/hccgw/person/v1/persons/updatecards

Update cards information of persons. The card NO. can be collected by device and cannot be duplicated. If you know the card NO., you can enter it by yourself.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/person/v1/persons/updatecards

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
personId	Req.	String	Body	Person ID.
cardList	Opt.	Object[]	Body	Card list of person. If this node is not uploaded or set, all card data of the person will be deleted. Up to 2 cards data can be configured for one person. If you need to reserve only one card of two, you should upload the card data (id and cardNo) of the card to be reserved.

Table 5-72 cardList Object Description

Parameter	Req. or Opt.	Data Type	Description
id	Opt.	String	Card ID. If this node is not uploaded, it means adding the card by default, otherwise it means editing the card. After editing, the card No. will change.
cardNo	Req.	String	Card No., which cannot be duplicated. The maximum length is 20.

Request Example

```
{
 "personId":"378222739150076928",
 "cardList":[{
  "cardNo":"892"
 }]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.
Data	Opt.	Object	Data returned by the successful request. See details in the Data Object Description below.

Table 5-73 Data Object Description

Parameter	Req. or Opt.	Data Type	Description
cardFailed	Opt.	***CardFailed***	Card data error list.

Response Example

```
{
 "errorCode":"0",
 "data":{
  "cardFailed":{
   "personId":"",
   "personName":"",
   "errorCode ":"0",
   "cardList ":[{
    "cardId":"0",
    "cardNo":"0",
    "errorCode":"CCF000000"
   }]
  }
 }
}
```

5.8.9 POST /api/hccgw/person/v1/persons/updatepincode

Update PIN code. PIN code can be used as password to open a door.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/person/v1/persons/updatepincode

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
personId	Req.	String	Body	Person ID.
pinCode	Req.	String	Body	PIN code. If this node is not set, it will be deleted and not be applied to the device. Length range: [4, 8] digits.

Request Example

```
{
 "personId":"395611750566890496",
 "pinCode":"3452"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.

Response Example

```
{
  "errorCode": "0"
}
```

5.8.10 POST /api/hccgw/person/v1/persons/get

View the information (face picture, card, fingerprint, etc.) of a single person.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/person/v1/persons/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
Id	Req.	String	Body	Person ID.

Request Example

```
{
  "personId":"376748042642236416"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.
Data	Opt.	Object	Data returned by the successful request. See details in the Data Object Description below.

Table 5-74 Data Object Description

Parameter	Req. or Opt.	Data Type	Description
personInfo	Opt.	***PersonInfo(1)***	Person basic information.
cardList	Opt.	***Card(2)*** []	Card information list.
fingerList	Opt.	***Finger(2)*** []	Fingerprint information list.
pinCode	Opt.	String	PIN code.

Response Example

```
{
 "errorCode": "0",
 "data":{}
}
```

5.8.11 POST /api/hccgw/person/v1/persons/delete

Delete persons. The persons on the device will also be deleted.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/person/v1/persons/delete

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
personId	Req.	String	Body	Person ID. Multiple person IDs are separated by commas.

Request Example

```
{
  "personId":"376748042642236416"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.

Response Example

```
{
  "errorCode": "0"
}
```

5.8.12 POST /api/hccgw/person/v1/persons/quick/add

Add a person quickly, and apply the PIN code and face picture information of the person to the device. The card information and fingerprint should be collected beforehand. For now quick applying is not supported.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/person/v1/persons/quick/add

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
personInfo	Req.	*PersonBaseInfo(2)*	Body	Basic information of the person.
aceessLevelList	Opt.	String[]	Body	Access level ID list.
pinCode	Opt.	String	Body	PIN code. Length: [4, 8] digits.
photoData	Opt.	String	Body	Face picture data encoded by Base 64. The face picture file size is not limited, but if the picture size exceeds 200K, the picture will be compressed.

Table 5-75 Object Description

Parameter	Req. or Opt.	Data Type	Description
name	Req.	String	Fingerprint name. The maximum length is 32.
data	Req.	String	Fingerprint data (hexadecimal data). The maximum length is 1024.

Request Example

```
{
 "personInfo":{
  "groupId":"381019761120777216",
  "firstName":"zmh_145",
  "lastName":"",
  "gender":1,
  "phone":"1124235678051",
  "email":"zmh13445name78901@lzx.com",
  "startDate":"2023-02-21T20:12:45+08:00",
  "endDate":"2033-02-21T20:12:45+08:00",
  "personCode":"12114785901"
 },
 "pinCode":"33456",
```

"photoData":"",
 "aceessLevelList":["395619513653140480"]
}

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **_Status and Error Code_** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.
Data	Opt.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-76 Data Object Description

Parameter	Req. or Opt.	Data Type	Description
personId	Req.	String	Added person IDs.
accessLevelFailed	Opt.	Object	Details about access level assigning failure.
pinCodeFailed	Opt.	**_CommonFailed_**	Details about PIN code failure.
photoFailed	Opt.	**_CommonFailed_**	Details about face picture updating failure.

Table 5-77 accessLevelFailed Object Description

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **_Status and Error Code_** for details). Each code

Parameter	Req. or Opt.	Data Type	Description
			can contain up to 32 characters.
message	Opt.	Integer	Error message.
personAccessLevelFailedList	Opt.	*AccessLevelFailed* []	List of access levels failed to be assigned. If the value of **errorCode** is not "0", this node will return an empty list. If the value of **errorCode** is "0", the list will be returned.

Response Example

```
{
  "data":{
    "personId":"379224379437087745"
  },
  "errorCode":"0"
}
```

5.8.13 POST /api/hccgw/person/v1/persons/list

Search for person list.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/person/v1/persons/list

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
pageIndex	Req.	Integer	Body	Page No., which is no less than 1.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
pageSize	Req.	Integer	Body	Number of records on each page, which is between 1 and 100.
filter	Opt.	Object[]	Body	Fuzzy search by filter.

filter Object Description

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
name	Opt.	String	Header	Person's name.
email	Opt.	String	Body	Person's email.
phone	Opt.	String	Body	Person's phone No.

Request Example

```
{
"pageIndex":1,
  "pageSize":10,
  "filter":{
    "name":"zmh",
    "email":"zmh",
    "phone":"112"
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.
data	Opt.	Object[]	Data returned by the successful request. See details in the Data Object Description below.

Data Object Description

Parameter	Req. or Opt.	Data Type	Description
personInfo	Req.	***PersonInfo(1)***	Basic information of person.
cardList	Opt.	***Card(2)***	Card information list.
fingerList	Opt.	***Finger(2)***	Fingerprint information list.
pinCode	Opt.	Object[]	PIN code.

Response Example

```
{
"errorCode": "0",
"data": {
}
}
```

5.8.14 POST /api/hccgw/person/v1/persons/qrcode

Get person's QR code.

---

[i] **Note**

There are 2 types of QR codes: dynamic QR code and static QR code.

- The dynamic QR code will expire 60 seconds after the moment it is obtained, or when a new dynamic QR code is obtained and used. It is recommended to call ***POST /api/hccgw/vims/v1/ tempauth/get*** every 60 seconds to get a new dynamic QR code and inform the end user of the 60-second validity.
- The static QR code is valid during the whole temporary pass period.
- Users can choose to configure the dynamic or static QR code on the HikCentral Connect or Hik Connect for Teams platform, and the dynamic or static QR code will be returned accordingly.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/person/v1/persons/qrcode

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
personId	Req.	String	Body	Person ID.
clientLocalTime	Req.	String	Body	Local time for the caller, in ISO 8601 standard time format: yyyy-MM-ddTHH:mm:ss +current zone, e.g., 2018-07-26T15:00:00+08:00.

Request Example

```
{
" personId ": "xxx",
"clientLocalTime":"2022-10-20T12:21:30+08:00"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.
Data	Opt.	Object	Data returned by the successful request. See details in the Data Object Description below.

Table 5-78 Data Object Description

Parameter	Req. or Opt.	Data Type	Description
qrCodeData	Req.	String	Data encoded by Base64.

Response Example

```
{
"errorCode": "0",
"data": {
" qrCodeData ":"xxxxxxxxxxxxx"
}
}
```

5.9 On-Board Monitoring Services

5.9.1 POST /api/hccgw/resource/v1/areas/vehicles/add

Add vehicle resources. The free package only supports adding 10 vehicles and 8 camera channels, and some functions are limited. If you want to access more functions, please contact the service provider.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/areas/vehicles/add

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
areaId	Req.	String	Body	Area ID.
licensePlateNo	Req.	String	Body	License plate No.
vehicleType	Req.	Integer	Body	Vehicle type: 0-others, 1-car, 2-truck, 3-bus.
driverFirstName	Opt.	String	Body	Driver's first name.
driverLastName	Opt.	String	Body	Driver's last name.
driverPhoneNo	Opt.	String	Body	Driver's phone No.
pictureKey	Opt.	String	Body	Key of the vehicle picture.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
deviceSerial	Opt.	String	Body	Linked device serial No.
extend	Opt.	String	Body	Annotations.

Request Example

```
{
    "areaId": "2aeec98c14a4427f9ace6c48e91ab4cc",
    "licensePlateNo": "ADDDEEE",
      "driverFirstName": "san",
      "driverLastName": "zhang",
      "driverPhoneNo": "18611119999",
      "pictureKey": "",
      "deviceSerial": "J091122",
      "vehicleType": 1,
      "extend": "this is a demo car"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-79 data Object Description

Parameter	Req. or Opt.	Data Type	Description
id	Req.	String	Vehicle ID.

Response Example

```
{
    "data": {
        "id": "2aeec98c14a4427f9ace6c48e91ab4cc"
    },
```

```
    "errorCode": "0"
}
```

5.9.2 POST /api/hccgw/resource/v1/areas/vehicles/{id}/update

Edit vehicle information.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/areas/vehicles/{id}/update

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
{id}	Req.	String	PathParam	Vehicle ID.
Token	Req.	String	Header	Token. The maximum length is 64.
licensePlateNo	Req.	String	Body	License plate No.
vehicleType	Req.	String	Body	Vehicle type: 0-others, 1-car, 2-truck, 3-bus.
driverFirstName	Opt.	String	Body	Driver's first name.
driverLastName	Opt.	String	Body	Driver's last name.
driverPhoneNo	Opt.	String	Body	Driver's phone No.
pictureKey	Opt.	String	Body	Key of the vehicle picture.
deviceSerial	Opt.	String	Body	Linked device serial No.
extend	Opt.	String	Body	Annotations.

Request Example

```
{
    "licensePlateNo": "ADDDEEE",
    "driverFirstName": "san",
    "driverLastName": "zhang",
    "driverPhoneNo": "18611119999",
    "pictureKey": "",
    "deviceSerial": "J091122",
    "vehicleType": 1,
```

```
    "extend": "this is a demo car"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **_Status and Error Code_** for details). Each code can contain up to 32 characters.

Response Example

```
{
    "errorCode": "0"
}
```

5.9.3 POST /api/hccgw/resource/v1/areas/vehicles/get

Search for vehicle resources.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/areas/vehicles/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
pageIndex	Req.	Integer	Body	The current page.
pageSize	Req.	Integer	Body	Number of records on each page, which is between 1 and 500.
filter	Opt.	Object	Body	Search condition. See details in the filter Object Description below.

Table 5-80 filter Object Description

Parameter	Req. or Opt.	Data Type	Description
areaID	Opt.	String	Area ID.
includeSubArea	Opt.	String	Whether to include vehicles in the lower-level areas: 0-no, 1-yes.
vehicleID	Opt.	String[]	Vehicle ID.

Request Example

```
{
    "pageIndex": 1,
    "pageSize": 10,
    "filter": {
        "areaID": "-1",
        "includeSubArea": "1",
        "vehicleID": []
    }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to _**Status and Error Code**_ for details). Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-81 data Object Description

Parameter	Req. or Opt.	Data Type	Description
totalCount	Req.	Integer	Total searched vehicles.
pageIndex	Req.	Integer	Page index.
pageSize	Req.	Integer	Number of records on each page, which is between 1 and 500.
vehicle	Req.	_**VehicleInfo(1)**_ []	Vehicle-related information.

Response Example

```
{
  "data": {
    "totalCount": 85,
    "pageIndex": 1,
    "pageSize": 2,
    "vehicle": [
      {
        "id": "ab51324d3c224335aa90b5036f1a2527",
        "name": "test222",
        "abilitySet": "",
        "online": "1",
        "area": {},
        "device": {
          "devInfo": {
            "id": "2a19980bbd414a029f57b752ca675b95",
            "category": "0",
            "serialNo": "G02907733",
            "streamSecretKey": ""
          },
          "channelInfo": {}
        },
        "vehicleInfo": {
          "licensePlateNo": "test222",
          "vehicleType": 0,
          "driverFirstName": "first name",
          "driverLastName": "last name",
          "driverPhoneNo": "1232312",
          "pictureUrl": "http://10.19.215.172:31677/hcc-dev-2/msvehicle/images/
f718f3013b5a4fb38e573043afe28683/2022-11-24/39c764aa5acd49a385222f479b34ddc6.jpg?X-Amz-
Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=minio123%2F20221128%2Fap-
southeast-1%2Fs3%2Faws4_request&X-Amz-Date=20221128T034040Z&X-Amz-Expires=86400&X-Amz-
SignedHeaders=host&X-Amz-Signature=330cc2959ec24a347beed7df4f42fbb49854f534d2646e0c30cdfb7422aa3377",
          "extend": ""
        }
      },
      {
        "id": "2ab33fd299124cf8911cc0d5be679e59",
        "name": "yyyy",
        "abilitySet": "",
        "online": "0",
        "area": {},
        "device": {
          "devInfo": {
            "id": "",
            "category": "0",
            "serialNo": "",
            "streamSecretKey": ""
          },
          "channelInfo": {}
```

```
        },
        "vehicleInfo": {
          "licensePlateNo": "yyyy",
          "vehicleType": 0,
          "driverFirstName": "",
          "driverLastName": "",
          "driverPhoneNo": "",
          "pictureUrl": "",
          "extend": ""
        }
      }
    ]
```

5.9.4 POST /api/hccgw/resource/v1/picture/uploadparam/get

Get the picture upload parameters.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/picture/uploadparam/get

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
format	Req.	String	Body	Picture format. Currently only JPG format is supported.

Request Example

```
{
  "format": "jpg"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details).

Parameter	Req. or Opt.	Data Type	Description
			Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-82 data Object Description

Parameter	Req. or Opt.	Data Type	Description
key	Req.	String	Key of the vehicle picture.
url	Req.	String	Vehicle picture URL, used for picture upload (valid for 15 minutes).

Response Example

```
{
  "data": {
    "key": "msvehicle/images/f718f3013b5a4fb38e573043afe28683/2022-11-28/
e39da74daa66463f8227960707fca60c.jpg",
    "url": "http://10.19.215.172:31677/hcc-dev-2/msvehicle/images/
f718f3013b5a4fb38e573043afe28683/2022-11-28/e39da74daa66463f8227960707fca60c.jpg?X-Amz-
Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=minio123%2F20221128%2Fap-
southeast-1%2Fs3%2Faws4_request&X-Amz-Date=20221128T025154Z&X-Amz-Expires=86400&X-Amz-
SignedHeaders=host&X-Amz-Signature=b9d0e9b4b0aa27e3763582f5bb90956146645deacaa9ce06bee11caac5edbbf2"
  },
  "errorCode": "0"
}
```

5.9.5 POST /api/hccgw/resource/v1/accstatus/search

Get the vehicle ACC status. It is recommended to call this API no more frequent than every other minute.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/resource/v1/accstatus/search

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
deviceSerials	Req./Opt.	String	Body	Set of on-board device serial No.s connected by comma. Either **deviceSerials** or **vehicleIds** is required. If both are configured, **vehicleIds** shall prevail.
vehicleIds	Req./Opt.	String	Body	Set of vehicle IDs connected by comma. Either **deviceSerials** or **vehicleIds** is required. If both are configured, **vehicleIds** shall prevail.

Request Example

```
{

    "vehicleIds":"0005c11ef9a64f6d9932e881bdea93d4, 0005c11ef9a64f6d9932e881bdea93d5,
0005c11ef9a64f6d9932e881bdea93d6"
}
```

Or

```
{
    "deviceSerials":"CA5565496,K70728087,CA7911952,CA2203964"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details).

Parameter	Req. or Opt.	Data Type	Description
			Each code can contain up to 32 characters.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-83 data Object Description

Parameter	Req. or Opt.	Data Type	Description
accStatusInfos	Req.	[]	Returned array. See details in the following **accStatusInfos** object.

Table 5-84 accStatusInfos Object Description

Parameter	Req. or Opt.	Data Type	Description
idOrDeviceSerial	Req.	String	Vehicle ID or serial No., depending on the request resource type.
accStatus	Req.	Integer	ACC status: -1 (unknown: no information uploaded by device), 0 (ACC off), 1 (ACC on).

Response Example

```
{
  "data": {
    "accStatusInfos": [
      {
        "idOrDeviceSerial": "0005c11ef9a64f6d9932e881bdea93d4",
        "accStatus": 0
      },
      {
        "idOrDeviceSerial": "0005c11ef9a64f6d9932e881bdea93d5",
        "accStatus": 1
      },
      {
        "idOrDeviceSerial": "0005c11ef9a64f6d9932e881bdea93d6",
        "accStatus": -1
      }
    ]
  },
"errorCode": "0"
}
```

5.9.6 POST /api/hccgw/vehicle/v1/driver/batchquery

Batch search for driver information.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/vehicle/v1/driver/batchquery

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
groupId	Opt.	String	Body	Driver group ID.
driverIds	Opt.	Array<String>	Body	Driver ID set.
distributionStatus	Opt.	Integer	Body	Applying status: null or -1 (all), 0 (not applied), 1 (applying), 2 (applied), 3 (applying failed).
fuzzySearch	Opt.	String	Body	Fuzzy search by driver's name/ No. / license plate No.
relatedVehicle	Opt.	Integer	Body	Whether to link with vehicle: null or -1 (all), 1 (not link), 2 (link).
pageIndex	Req.	Integer	Body	The current page, which starts from 1.
pageSize	Req.	Integer	Body	Number of records on each page, [1, 500].

Request Example

```
{
    "groupId": "",
    "driverIds": ["521728422020533248"],
    "distributionStatus": -1,
    "fuzzySearch": "",
    "relatedVehicle": -1,
    "pageIndex": 1,
    "pageSize": 10
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.
data	Opt.	Object[]	Data returned by the successful request. See details in the data Object Description below.
drivers	Opt.	***DriverInfo (2)***	Driver information set.

Response Example

```
{
 "data": {
  "drivers": [
   {
    "driverGroupId": "xxxxxx
    "driverGroupName": "xxxxxx",
    "driverId": "xxxxxx",
    "facepicUrl": "xxxxxx",
    "driverName": "xxxxxx",
    "driverCode": "xxxxxx",
    "gender": "0",
    "phone": " xxxxxx",
    "email": " xxxxxx",
    "description": "xxxxxx",
    "distributionStatus": 0,
    "distributionInfo": {
     "errorInfo": []
    },
    "relatedVehicles": [
     {
      "plateLicense": "xxxxxx",
      "vehicleId": "xxxxxx",
      "deviceSerial": "xxxxxx"
     }
    ],
    "driverLicenseInfo": {
     "validTime": "",
     "licenseNo": "xxxxxx",
     "imageUrl": "xxxxxx"
    }
```

```
    }
  ]
 },
 "errorCode": "0"
}
```

5.9.7 POST /api/hccgw/vehicle/v1/driver/add

Add driver.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/vehicle/v1/driver/add

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
firstName	Req./Opt.	String	Body	First name. Either **firstName** or **lastName** should be configured.
lastName	Req./Opt.	String	Body	Last name. Either **firstName** or **lastName** should be configured.
driverCode	Req.	String	Body	Driver code.
gender	Req.	Integer	Body	0 (unknown), 1 (male), 2 (female).
groupId	Req.	String	Body	Linked driver group ID.
phone	Req.	String	Body	Phone No.
email	Req.	String	Body	Email.
description	Req.	String	Body	Description.
relateVehicleIds	Req.	Array<String>	Body	ID set of linked vehicles. Up to 100 items are allowed.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
driverLicenseInfo	Req.	***DriverLicenseAddInfo***	Body	Driving license information.
photoData	Req.	String	Body	Driver's profile picture data, encoded by Base64, max. size: 5 MB.

Request Example

```
{
    "firstName": "xxxxxx",
    "lastName": "xxxxxx",
    "driverCode": "xxxxxx",
    "groupId": " xxxxxx",
    "gender": 0,
    "phone": "xxxxxx",
    "email": "xxxxxx",
    "description": "xxxxxx",
    "relateVehicleIds": ["xxxxxx"],
    "driverLicenseInfo": {
        "licenseNo": "xxxxxx",
        "validTime": "xxxxxx",
        "imageData": "xxxxxx
},
"photoData":"xxxxxx"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.
data	Opt.	Object[]	Data returned by the successful request. See details in the data Object Description below.
driverId	Opt.	String	Driver ID.

Response Example

```
{
 "data": {
   " driverId":"xxxxxx"
 },
 "errorCode": "0"
}
```

5.9.8 POST /api/hccgw/vehicle/v1/driver/update

Edit driver.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/vehicle/v1/driver/update

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
driverId	Req.	String	Body	Driver ID.
firstName	Req.	String	Body	First name. Either **firstName** or **lastName** should be configured.
lastName	Req.	String	Body	Last name. Either **firstName** or **lastName** should be configured.
driverCode	Req.	String	Body	Driver code.
gender	Req.	Integer	Body	0 (unknown), 1 (male), 2 (female).
groupId	Req.	String	Body	Linked driver group ID.
phone	Req.	String	Body	Phone No.
email	Req.	String	Body	Email.
description	Req.	String	Body	Description.
relateVehicleIds	Req.	Array<String>	Body	ID set of linked vehicles. Up to 100 items are allowed.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
driverLicenseInfo	Req.	***DriverLicenseAddInfo***	Body	Driving license information.
photoData	Req.	String	Body	Driver's profile picture data, encoded by Base64, max. size: 5 MB.

Request Example

```
{
  "driverId": "xxxxxx",
  "firstName": "xxxxxx",
  "lastName": "xxxxxx",
  "driverCode": "xxxxxx",
  "groupId": "xxxxxx",
  "gender": 0,
  "phone": "xxxxxx",
  "email": "xxxxxx",
  "description": "xxxxxx",
  "relateVehicleIds": ["xxxxxx"],
  "driverLicenseInfo": {
    "licenseNo": "xxxxxx",
    "validTime": "xxxxxx",
    "imageData": "xxxxxx
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.

Response Example

```
{
 "errorCode": "0"
}
```

5.9.9 POST /api/hccgw/vehicle/v1/driver/batchdel

Batch delete drivers.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/vehicle/v1/driver/batchdel

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
driverIdList	Req.	Array<String>	Body	Driver ID set.

Request Example

```
{
    "driverIdList": ["xxxxxx"]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.

Response Example

```
{
  "errorCode": "0"
}
```

5.9.10 POST /api/hccgw/vehicle/v1/driverGroup/batchquery

Batch search for driver group information.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/vehicle/v1/driverGroup/batchquery

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
driverGroupId List	Opt.	Array<String>	Body	Driver group No. set. All will be included when this field is null.

Request Example

```
{
    "driverGroupIdList": ["xxxxxx"]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.
data	Opt.	Object[]	Data returned by the successful request. See details in the data Object Description below.
DriverGroupInfo[]	Opt.	***DriverGroupInfo***	Driver group information.

Response Example

```
{
    "data": [
        {
            "groupId": "xxxxxx"
            "groupName": "xxxxxx",
            "areaId": "xxxxxx",
            "areaName": "xxxxxx",
            "peopleCount": 1
```

```
    }
  ],
  "errorCode": "0"
}
```

5.9.11 POST /api/hccgw/vehicle/v1/driverGroup/add

Add driver group.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/vehicle/v1/driverGroup/add

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
driverGroupN ame	Req./Opt.	String	Body	Driver group name, which should be unique.
relatedAreaId	Req.	String	Body	Linked area ID.

Request Example

```
{
"driverGroupName": "xxxxxx",
"relatedAreaId": "xxxxxx"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.

Parameter	Req. or Opt.	Data Type	Description
data	Opt.	Object[]	Data returned by the successful request. See details in the data Object Description below.
id	Opt.	String	Driver group ID.

Response Example

```
{
  "data":
    {
      "id": "xxxxxx"
    },
  "errorCode": "0"
}
```

5.9.12 POST /api/hccgw/vehicle/v1/driverGroup/update

Edit driver group.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/vehicle/v1/driverGroup/update

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
id	Req.	String	Body	Driver group ID.
driverGroupName	Req.	String	Body	Driver group name.
relatedAreaId	Req.	String	Body	Linked area ID.

Request Example

```
{
"id": "xxxxxx",
"driverGroupName": "xxxxxx",
"relatedAreaId": "xxxxxx"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.

Response Example

```
{
    "errorCode": "0"
}
```

5.9.13 POST /api/hccgw/vehicle/v1/driverGroup/batchdel

Batch delete driver groups.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/vehicle/v1/driverGroup/batchdel

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
driverGroupId List	Req.	Array<String>	Body	Driver group ID. set.

Request Example

```
{
"driverGroupIdList": ["xxxxxx"]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.

Response Example

```
{
   "errorCode": "0"
}
```

5.9.14 POST /api/hccgw/vehicle/v1/driverFace/distribution

Apply driver's face pictures. The face picture applying process is asynchronous. If no task GUID is returned from the response message, see whether the applying succeeded according to the error code and error information; if the task GUID is returned, use the GUID to call the API of searching for face picture applying status and get the result in 1or 2 seconds.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/vehicle/v1/driverFace/distribution

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
driverIds	Req.	Array<String>	Body	Driver ID set.

Request Example

```
{
"driverIds": ["xxxxxx"]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.
data	Opt.	Object[]	Data returned by the successful request. See details in the data Object Description below.
GUID	Opt.	String	Applying task ID, used for searching for applying status.

Response Example

```
{
"data": {
   "guid": "xxxxxx"
},
   "errorCode": "0"
}
```

5.9.15 POST /api/hccgw/vehicle/v1/driverFace/status/query

Search for the applying status of driver's face picture.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/vehicle/v1/driverFace/status/query

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
guid	Req.	String	Body	Applying task GUID.

Request Example

```
{
"guid": "xxxxxx"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to **_Status and Error Code_** for details). Each code can contain up to 32 characters.
Message	Opt.	String	Error message.
data	Opt.	Object[]	Data returned by the successful request. See details in the data Object Description below.
totalCount	Opt.	Integer	Total number of tasks.
successCount	Opt.	Integer	Number of successful tasks.
distributionFailed Status	Opt.	**_DriverDistribution Fail_**	Set of failed tasks.

Response Example

```
{
 "data": {
  "totalCount": 2,
  "successCount": 2,
  "distributionFailedStatus": [
   {
    "driverId": "xxxxxx",
    "driverName": "xxxxxx",
    "licensePlate": "xxxxxx",
    "errorCode": "xxxxxx",
    "message": "xxxxxx",
    "deviceSerial": "xxxxxx"
   }
  ]
 },
 "errorCode": "0"
}
```

5.10 Attendance Services

5.10.1 POST /api/hccgw/attendance/v1/report/totaltimecard/list

Search for Total Time Card.

Request URL

https://[serverAddress]:[serverPort]/api/hccgw/attendance/v1/report/totaltimecard/list

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Token	Req.	String	Header	Token. The maximum length is 64.
pageIndex	Opt.	Integer	Body	Token. The maximum length is 64.
pageSize	Opt.	Integer	Body	Number of records on each page, which is between 1 and 200. The default value is 20.
beginTime	Req.	String	Body	Start time, in ISO time format, e.g., 2023-10-21T11:08:23+08:00.
endTime	Req.	String	Body	End time, in ISO time format, e.g., 2023-10-21T11:08:23+08:00.
personName	Opt.	String	Body	Person name(s), matched by fuzzy search. By default all will be included.
personCode	Opt.	String	Body	Employee No.(s), matched by fuzzy search. By default all will be included.
personGroupIds	Opt.	String[]	Body	Person group ID list. By default it is the department which the account has permission for.
dateFormat	Opt.	String	Body	Date format, by default represented by "yyyy/MM/dd".

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				See details in ***Date Format Type*** .
timeFormat	Opt.	String	Body	Date format, by default represented by "HH:mm". See details in ***Time Format Type*** .
durationFormat	Opt.	String	Body	Date format, by default represented by "HH:MM". See details in ***Time Duration Format Type*** .

Request Example

```
{
  "pageIndex": 1,
  "pageSize": 20,
  "beginTime": "2024-01-01T00:00:00+08:00",
  "endTime": "2024-01-31T23:59:59+08:00",
  "personName": "abc",
  "personCode": "123",
  "personGroupIds": [],
  "dateFormat": "yyyy/MM/dd",
  "timeFormat": "HH:mm",
  "durationFormat": "HH:MM"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
errorCode	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
message	Opt.	String	Error message.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-85 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
reportDataList	Req.		Report data list. For circumstances where no data exists, an empty list will be returned.
pageIndex	Req.	Integer	Page No.
pageSize	Req.	Integer	Number of records per page.
moreData	Req.	Integer	Whether it is more than one page: 0-no, 1-yes.

Response Example

```
{
"errorCode": "0",
"data": {
   "pageIndex": 1,
   "pageSize": 1,
   "moreData": 0,
   "reportDataList": [
         {
         "firstName":"abc",
         "lastName":"def",
         "fullName":"abc def",
         "personCode":"123",
         "fullPath":"xxx",
         "date":"2024/01/01",
         "weekday":1,
         "timetableName":"Time Table Name",
         "checkInDate":"2024/01/01",
         "checkInTime":"09:00",
         "checkOutDate":"2024/01/01",
         "checkOutTime":"18:00",
         "clockInDate":"2024/01/01",
         "clockInTime":"09:00",
         "clockInSource":2,
         "clockInDevice":"",
      "clockInArea":"",
      "clockOutDate":"2024/01/01",
      "clockOutTime":"18:00",
      "clockOutSource":2,
      "clockOutDevice":"",
      "clockOutArea":"",
      "attendanceStatus":1,
      "workDuration":"00:00",
      "absenceDuration":"00:00",
      "lateDuration":"00:00",
```

```
        "earlyDuration":"00:00",
        "breakDuration":"00:00",
        "leaveDuration":"00:00",
        "overtimeDuration":"00:00",
        "workdayOvertimeDuration":"00:00",
        "weekendOvertimeDuration":"00:00"
      }
  ]
}
}
```

Appendix A. Appendixes

A.1 Data Dictionary

A.1.1 Alarm Category

Enumeration	Description
alarmCategoryAlarmDetection	Alarm Main Category: Alarm Detection
alarmCategoryMaintenance	Alarm Main Category: Maintenance
alarmCategoryVideo	Alarm Main Category: Video Security
alarmCategoryDriving	Alarm Main Category: On-Board Monitoring
alarmSubCategoryAlarmDevice	Alarm Sub Category: Alarm Device
alarmSubCategoryVehicle	Alarm Sub Category: Vehicle Linked to On-Board Device
alarmSubCategoryAlarmInput	Alarm Sub Category: Alarm Input
alarmSubCategoryBoxChannel	Alarm Sub Category: Channel Linked with Hik-ProConnect Box
alarmSubCategoryBoxDevice	Alarm Sub Category: Hik-ProConnect Box
alarmSubCategoryCamera	Alarm Sub Category: Camera
alarmSubCategoryEncodingDevice	Alarm Sub Category: Encoding Device
alarmSubCategoryMobileDevice	Alarm Sub Category: On-Board Device

A.1.2 Resource Type

Enumeration	Description
alarmInput	Alarm Input
alarmOutput	Alarm Output
camera	Camera
vehicle	Vehicle Linked to On-Board Device
door	Door

A.1.3 Device Category

Enumeration	Description
alarmDevice	Alarm Device
encodingDevice	Encoding device
mobileDevice	On-Board Device
accessControllerDevice	Access Control Device
videoIntercomDevice	Video Intercom Device

A.1.4 Alarm Type

Video Security

Event Code	Description
10001	Video Tampering
10002	Motion Detection
10016	Face Capture
10019	People Density Detection
10032	Fire and Smoke Detection
10033	Temperature Alarm
10034	Temperature Difference Alarm
10035	Multi-Target-Type Detection
10036	Temperature Pre-Alarm
10100	Line Crossing
10101	Region Entrance
10102	Region Exiting
10103	Intrusion
10106	Fast Moving
10500	License Plate BlockList
10501	License Plate Allowlist

Event Code	Description
10610	Queuing Time Alarm
10611	Number of Queuing People Detection
10621	Abnormal Number of People
10630	Police Absence
10635	Not Wearing Mask
10636	Distance Measurement Alarm
50000	Triggered by Alarm Input
100105	People Density
100657	Leaving Queue Detection
100375	Person and Vehicle Match
100376	Person and Vehicle Mismatch
50101	Device Offline
50120	Device Reconnected
50102	Encoding Device HDD Full
50110	Invalid Access of Encoding Device
50103	Encoding Device HDD R/W Error

Alarm Detection

Event Code	Description
20008	Restore Alarm Input
70001	Disarm
70002	Arming
70003	Instant Arming
70004	Stay Arming
70006	Alarm Clearing
100302	Bypass
100303	Bypass Restored

Maintenance

Event Code	Description
10000	Video Loss
10056	Camera Online
10057	Camera Offline
11016	On-Board Device Online
11017	On-Board Device Offline
20002	HDD Bad Sector
20003	HDD High Temperature
20005	HDD Impact Detection Event
20006	HDD Severe Failure
50002	Camera Recording Exception
70007	Late to Disarm
70113	Duress Alarm Report
70118	Keypad Locked
70119	Keypad Unlocked
70200	Device Tampering Alarm
70203	Mains Power Lost
70204	Low Battery Voltage
70205	Host Machine Reset
70213	Auto Arming Failed
70221	Expander Disconnected
70223	Cellular Network Disconnected
70224	Wired Network Disconnected
70250	Wireless Detector Disconnected
70253	Wireless Detector Low Battery
70255	Network Camera Disconnected
70302	IP Conflicted
70307	Wi-Fi Disconnected

Event Code	Description
70308	RF Exception
70309	Cellular Network Data Exceeded
70310	Wireless Sounder Low Battery
70311	Battery Fault
70402	Wireless Repeater Disconnected
70451	Wireless Peripheral Undervoltage
70452	Wireless Peripheral Disconnected
70453	Wireless Peripheral Deleted
70454	Wireless Peripheral Added
70502	Wireless Sounder Disconnected

Maintenance (On-Board Device)

Event Code	Description
50101	Device Offline
50109	HDD Full
50112	Read/Write Hard Disk Error
50104	Standard Mismatched
50111	Illegal Login
50120	Device Reconnected
300001	Normal Signal
300002	Signal Exception
300003	GPS Module Error

On-Board Monitoring

Event Code	Description
11009	Speeding
11010	Rollover
11011	Collision

Event Code	Description
11012	Sharp Turn
11013	Sudden Brake
11014	Sudden Acceleration
100351	Fence for Entry Detection
100352	Deviation
100359	Smoking
100360	Using Mobile Phone
100361	Fatigue Driving
100362	Distraction
100363	Seatbelt Unbuckled
100364	Forward Collision Warning
100365	Headway Monitoring Warning
100366	Lane Deviation Warning
100367	Pedestrian Collision Warning
100368	Speed Limit Warning
100369	Blind Spot Warning
100370	Emergency Alarm
100371	Alarm Input
100372	Yawning
100373	Wearing IR Interrupted Sunglasses
100374	Absence
100376	Person and Vehicle Mismatch
100377	Driving License Expired
100396	Video Tampering
100398	Entering Route
330407	ACC ON
330408	ACC OFF
330510	Front Passenger Detection

Card Swiping

Event Code	Description
80025	Access Granted by Card and Fingerprint
80021	Access Granted by Card, Fingerprint, and PIN
80001	Access Granted by Card
80002	Access Granted by Card and PIN
80032	Access Granted by Fingerprint
80034	Access Granted by Fingerprint and PIN
80036	Duress Alarm
80072	Access Granted by Face and Fingerprint
80075	Access Granted by Face and PIN
80078	Access Granted by Face and Card
80081	Access Granted by Face, PIN, and Fingerprint
80084	Access Granted by Face, Card, and Fingerprint
80093	Access Granted by Face
80147	Access Granted via Combined Authentication Modes
100344	Password Authenticated
100620	Access Granted by Bluetooth
100571	Access Granted via QR Code
80273	Access Granted via Keyfob
80008	Verifying Card Encryption Information Failed
80009	Max. Card Access Failed Attempts
80016	Card No. Expired
80017	Access Timed Out by Card and PIN
80018	Access Denied (Door Remained Locked or Inactive)
80020	Access Denied by Card and PIN
80022	Access Timed Out by Card, Fingerprint, and PIN

Event Code	Description
80023	Access Denied by Card, Fingerprint, and PIN
80024	Access Denied by Card and Fingerprint
80026	Access Timed Out by Card and Fingerprint
80027	No Access Level Assigned
80028	Card No. Does Not Exist
80029	Invalid Time Period
80030	Fingerprint Does Not Exist
80031	Access Denied by Fingerprint
80033	Access Denied by Fingerprint and PIN
80035	Access Timed Out by Fingerprint and PIN
80073	Access Denied by Face and Fingerprint
80074	Access Timed Out by Face and Fingerprint
80076	Access Denied by Face and PIN
80077	Access Timed Out by Face and PIN
80079	Access Denied by Face and Card
80080	Access Timed Out by Face and Card
80082	Access Denied by Face, PIN, and Fingerprint
80083	Access Timed Out by Face, PIN, and Fingerprint
80085	Access Denied by Face, Card, and Fingerprint
80086	Access Timed Out by Face, Card, and Fingerprint
80094	Access Denied by Face
80099	Live Facial Detection Failed
80148	Combined Authentication Timed Out
80152	Access Denied by Invalid M1 Card
80153	Verifying CPU Card Encryption Failed
80154	Access Denied (NFC Card Reading Disabled)
80155	EM Card Reading Not Enabled
80156	M1 Card Reading Not Enabled

Event Code	Description
80157	CPU Card Reading Disabled
80173	Authentication Mode Mismatch
80263	Password Mismatches
80264	Employee ID Does Not Exist
100345	Verifying Desfire Card Encryption Failed
100346	Absence
100348	Authentication Failed Due to Abnormal Features (e.g., Not Wearing Mask, Abnormal Skin-Surface Temperature)
100621	Access Denied by Bluetooth
100572	Access Denied by QR Code
100574	Verifying QR Code Secret Key Failed
80274	Access Denied via Keyfob

A.1.5 Alarm Type (V2)

$\boxed{i}$ **Note**

The Alarm Type (V2) list contains the following Video Intercom (V2) events, GPS (V2) events, and all events from **_Alarm Type_** . See details of example event messages in **_Event Message_** .

Video Intercom (V2)

Enumeration Value	Description
140001	Messages about video intercom events.

GPS (V2)

Enumeration Value	Description
330001	Messages about GPS events.

Event Message

Video Intercom Event Message

Enumeration Value	Description
140001	Messages about video intercom events.

eventData Schemas : [***DeviceTalkInfo***]

```
{
        "eventId": "cf826d6fc0b6438785eecf3f97659b1a",
        "eventType": "140001",
        "basicInfo": {
          "systemId": "6f26f64efb6d4e49be2380ad9c634fc5",
          "occurrenceTime": "2024-10-31T02:30:41Z",
          "resourceInfo": {
            "deviceInfo": {
              "id": "d00504fdfd6b463c85e9337b7ecd71d4",
              "name": "AB7547307",
              "category": "2008",
              "deviceSerial": "AB7547307"
            }
          }
        },
        "eventData": {
          "deviceTalkInfo": {
            "roomNumber": 1,
            "deviceSerial": "AB7547307",
            "deviceName": "AB7547307",
            "deviceId": "d00504fdfd6b463c85e9337b7ecd71d4",
            "msgType": 3,
            "doorInfos": [
              {
                "doorId": "afcf25c8520640d5aa8f56f041cb28f8",
                "doorName": "AB7547307-Door 2"
              }
            ],
            "deviceTimeStamp": 1730341841000
          }
        }
      }
```

Card Swiping Event Message

All card swiping events share the same event message structure. The following is an example.

Enumeration Value	Description
80001	Access Granted by Card

eventData Schemas: [***AlarmFileInfo***]

```
{
        "eventId": "84fcc2865ba14933afbb16bf3db679bc",
        "eventType": "80001",
        "basicInfo": {
          "systemId": "e9e79fa6f59e4647b412928f6c47ef67",
          "occurrenceTime": "2024-10-28T09:09:39Z",
          "resourceInfo": {
            "sourceType": "door",
            "sourceName": "FH1313789-Door 1",
            "areaName": "FH1313789",
            "deviceInfo": {
               "id": "0544a1f4fafa437b9e451348be93909d",
               "name": "FH1313789",
               "deviceSerial":"FH1313789"
               "category":"2008"
            },
            "sourceID": "6fbf1292ca064eeea7ea531b75dea47d",
            "areaID": "f13dcd9d143d41c08a5d3aa3d4108248"
          }
        },
        "eventData": {
          "fileInfo": {
            "fileContent": "1",
            "file": [
              {
                "type": "1",
                "url": "https://isgpopen.ezvizlife.com/api/lapp/mq/downloadurl?
appKey=4e502c094070464c94945ab4f2ba7f0c&fileKey=ISAPI_FILES/FH1313789_1/20241028084347349-
FH1313789-1-10000-3$encrypt=2,2024-10-28T09:09:39,2f6f72f39ec60162d4680608fd31b2e6",
                "saveState": "0",
                "generationMode": "1",
                "encrypted": "0",
                "extendInfo": {
                   "sourceID": "6fbf1292ca064eeea7ea531b75dea47d",
                   "sourceName": "FH1313789-Door 1",
                   "sourceType": "door",
                   "captureIndex": "1"
                }
              }
            ]
          }
        }
}
```

Video Security / Alarm Detection / Maintenance / Maintenance (On-Board Device) Event Message

All *Video Security* / *Alarm Detection* / *Maintenance* / *Maintenance (On-Board Device)* events share the same event message structure. The following is an example.

Enumeration Value	Description
10002	Motion Detection

eventData Schemas: [*AlarmFileInfo*]

```
{
        "eventId": "79824bdd8df848909badb1348e1fa39e",
        "eventType": "10002",
        "basicInfo": {
          "systemId": "7cf0277d267f4acebea601334c13eff7",
          "occurrenceTime": "2024-10-24T02:22:16Z",
          "resourceInfo": {
            "sourceType": "camera",
            "sourceName": "FG0587279",
            "areaName": "HccbiStore",
            "deviceInfo": {
              "id": "ce5ea4fdb727448d90653d73be1195ab",
              "name": "FG0587279",
              "category": "2001",
              "deviceSerial": "FG0587279"
            },
            "sourceID": "ddaeec5d37f74144be2fabc250d45045",
            "areaID": "b29b26c586d54707844a6a9fda7a15ee"
          }
        },
        "eventData": {
          "fileInfo": {
            "fileContent": "1",
            "file": [
              {
                "type": "1",
                "url": "https://isgp.ezvizlife.com/v3/alarms/pic/get?fileId=20241024022227-
FG0587279-1-10002-2-1&deviceSerialNo=FG0587279&cn=1&isEncrypted=1&isCloudStored=0&ct=32&lc=7&bn=32_ali
alarm-sgp-2&isDevVideo=0",
                "saveState": "0",
                "generationMode": "1",
                "encrypted": "1",
                "extendInfo": {
                  "sourceID": "ddaeec5d37f74144be2fabc250d45045",
                  "sourceName": "FG0587279",
                  "sourceType": "camera",
                  "captureIndex": "1"
                }
              }
```

```
            }
          ]
        }
      }
    }
```

On-Board Monitoring Event Message

All on-board monitoring alarm types and GPS alarm type share the same event message structure. The following is an example.

Enumeration Value	Description
11012	Sharp Turn

eventData Schemas: [*AlarmFileInfo* , *VehicleRelatedInfo*]

```
{
  "data": {
    "batchId":
"552ae2df624d5def3cace3d1f970dd70cff50418be80a6804205f50847aebaf2946884da1c096dc96dc5cedc4612a48c",
    "remainingNumber": 0,
    "event": [
    {
        "eventId": "369f4afc8f594bd296a926c174f4f96a",
        "eventType": "11012",
        "basicInfo": {
          "occurrenceTime": "2024-10-17T07:15:51Z",
          "systemId": "7cf0277d267f4acebea601334c13eff7",
          "resource": {
            "sourceType": "vehicle",
            "sourceId": "ab37eda213714520ae1da6b3327939c1",
            "sourceName": "o7q51bIE",
            "areaName": "CB4152502",
            "areaID": "afe7dc6ee8c944de83e570a60dd9a5db",
            "deviceInfo": {
             "id": "70f0d54bb4f3498b9e46243d8c4ae1db",
             "name": "CB4152502",
             "deviceSerial": "CB4152502",
             "category": ""
            }
          },
        },
        "data": {
          "fileInfo": {
            "file": []
          },
          "vehicleRelatedInfo": {
            "gpsInfo": {
              "ew": "E",
```

```
            "lng": "0.000000",
            "ns": "N",
            "lat": "0.000000",
            "direction": 0,
            "height": 0,
            "speed": 0
          },
          "vehicleInfo": {
            "licensePlate": "L26577577-aemd-veh5",
            "id": "00cb99c553634775a2ccb297b9dd6daa",
            "speedLimit": 9600000,
            "driverInfos": [
              {
                "driverName": "driver1 ",
                "driverPhone": ""
              }
            ]
          }
        }
      }
    }
  ]
  },
  "errorCode": "0"
}
```

A.1.6 Alarm Source

Enumeration	Description
alarmInput	Alarm Input
camera	Camera
encodingDevice	Encoding Device
alarmDevice	Alarm Device
user	User
subSystem	Partition (Area)
vehicle	Vehicle Linked to On-Board Device
mobileDevice	On-Board Device

A.1.7 Message Type

Video Intercom

Enumeration Value	Description
Msg140001	Messages about video intercom events.

On-Board Monitoring

Enumeration Value	Description
Msg330001	GPS Data Report
Msg330101	Alarm Triggered by Panic Button
Msg330102	Alarm Input
Msg330201	Forward Collision Warning
Msg330202	Headway Monitoring Warning
Msg330203	Lane Deviation Warning
Msg330204	Pedestrian Collision Warning
Msg330205	Speed Limit Warning
Msg330301	Blind Spot Warning
Msg330401	Sharp Turn
Msg330402	Sudden Brake
Msg330403	Sudden Acceleration
Msg330404	Rollover
Msg330405	Speeding
Msg330406	Collision
Msg330407	ACC ON
Msg330408	ACC OFF
Msg330501	Smoking
Msg330502	Using Mobile Phone
Msg330503	Fatigue Driving
Msg330504	Distraction
Msg330505	Seatbelt Unbuckled

Enumeration Value	Description
Msg330506	Video Tampering
Msg330507	Yawning
Msg330508	Wearing IR Interrupted Sunglasses
Msg330509	Absence
Msg330510	Front Passenger Detection
Msg335000	Person and Vehicle Match
Msg335001	Person and Vehicle Mismatch

Authentication Event

Enumeration Value	Description
Msg 110001	Access Granted by Card and Fingerprint
Msg 110002	Access Granted by Card, Fingerprint, and PIN
Msg 110003	Access Granted by Card
Msg 110004	Access Granted by Card and PIN
Msg 110005	Access Granted by Fingerprint
Msg 110006	Access Granted by Fingerprint and PIN
Msg 110007	Duress Alarm
Msg 110008	Access Granted by Face and Fingerprint
Msg 110009	Access Granted by Face and PIN
Msg 110010	Access Granted by Face and Card
Msg 110011	Access Granted by Face, PIN, and Fingerprint
Msg 110012	Access Granted by Face, Card, and Fingerprint
Msg 110013	Access Granted by Face
Msg110018	Access Granted via Combined Authentication Modes
Msg110019	Skin-Surface Temperature Measured
Msg110020	Password Authenticated
Msg110022	Access Granted by Bluetooth
Msg110023	Access Granted via QR Code

Enumeration Value	Description
Msg110024	Access Granted via Keyfob
Msg110501	Verifying Card Encryption Failed
Msg110502	Max. Card Access Failed Attempts
Msg110505	Card No. Expired
Msg110506	Access Timed Out by Card and PIN
Msg110507	Access Denied (Door Remained Locked or Inactive)
Msg110509	Access Denied by Card and PIN
Msg110510	Access Timed Out by Card, Fingerprint, and PIN
Msg110511	Access Denied by Card, Fingerprint, and PIN
Msg110512	Access Denied by Card and Fingerprint
Msg110513	Access Timed Out by Card and Fingerprint
Msg110514	No Access Level Assigned
Msg110515	Card No. Does Not Exist
Msg110516	Invalid Time Period
Msg110517	Fingerprint Does Not Exist
Msg110518	Access Denied by Fingerprint
Msg110519	Access Denied by Fingerprint and PIN
Msg110520	Access Timed Out by Fingerprint and PIN
Msg110521	Access Denied by Face and Fingerprint
Msg110522	Access Timed Out by Face and Fingerprint
Msg110523	Access Denied by Face and PIN
Msg110524	Access Timed Out by Face and PIN
Msg110525	Access Denied by Face and Card
Msg110526	Access Timed Out by Face and Card
Msg110527	Access Denied by Face, PIN, and Fingerprint
Msg110528	Access Timed Out by Face, PIN, and Fingerprint
Msg110529	Access Denied by Face, Card, and Fingerprint
Msg110530	Access Timed Out by Face, Card, and Fingerprint

Enumeration Value	Description
Msg110531	Access Denied by Face
Msg110533	Live Facial Detection Failed
Msg110545	Combined Authentication Timed Out
Msg110546	Access Denied by Invalid M1 Card
Msg110547	Verifying CPU Card Encryption Failed
Msg110548	Access Denied (NFC Card Reading Disabled)
Msg110549	EM Card Reading Not Enabled
Msg110550	M1 Card Reading Not Enabled
Msg110551	CPU Card Reading Disabled
Msg110552	Authentication Mode Mismatch
Msg110554	Max. Card and Password Authentication Times
Msg110555	Password Mismatches
Msg110556	Employee ID Does Not Exist
Msg110557	Access Denied: Scheduled Sleep Mode
Msg110559	Verifying Desfire Card Encryption Failed
Msg110560	Absence
Msg110561	Authentication Failed Due to Abnormal Features (e.g., Not Wearing Mask, Abnormal Skin-Surface Temperature)
Msg110564	Access Denied by Bluetooth
Msg110565	Access Denied by QR Code
Msg110566	Verifying QR Code Secret Key Failed
Msg110567	Access Denied via Keyfob

A.1.8 Capability Set

Value	Description
2000	Video Loss
2001	Video Tampering Detection

Value	Description
2002	Motion Detection
2003	PIR Alarm
2004	Face Capture
2005	Area Crossing
2006	Region Entrance
2007	Region Exiting
2015	Scene Change Detection
2016	Focal Length Detection
2021	Line Crossing Detection
2022	Intrusion Detection
2023	Region Entrance Detection
2024	Region Exiting Detection
2027	Fast Moving Detection
2029	Unattended Baggage Detection
2030	Object Removal Detection

A.2 Time/Date Format

A.2.1 ISO 8601 Time Format Instruction

ISO 8601, Data Elements and Interchange Formats–Information Interchange–Representation of Dates and Times, is an international standard covering the exchange of date and time-related data format issued by ISO. An uppercase T should be added before an exact time to represent the combination of date and time. Beijing time 5:30:08 PM May 3rd, 2004 can be written as 2004-05-03T17:30:08+08:00 or 20040503T173008+08.

A.2.2 Date Format Type

Format	Description
yyyy/MM/dd	yyyy, the year of 4 digits containing era.

Format	Description
	MM, the month of 2 digits. The number zero is added to months of only one digit. dd, the date of a month. The number zero is added to dates of only one digit. E.g., 2024/01/31
yyyy-MM-dd	E.g., 2024-01-31
yyyy.MM.dd	E.g., 2024.01.31
dd/MM/yyyy	E.g., 31/01/2024
dd-MM-yyyy	E.g., 31-01-2024
MM-dd-yyyy	E.g., 01-31-2024
yy-MM-dd	yy, the year of 2 digits without era. The number zero is added to years of only one digit. E.g., 24-01-31
yy/MM/dd	E.g., 24/01/31
dd/MM/yy	E.g., 24.01.31
yy.MM.dd	E.g., 24.01.31
yyyyddMM	E.g., 20243101
yyyyMMdd	E.g., 20240131
MMddyyyy	E.g., 01312024
ddMMyyyy	E.g., 31012024
yyddMM	E.g., 243101
yyMMdd	E.g., 240131
MMddyy	E.g., 013124
ddMMyy	E.g., 310124

A.2.3 Time Format Type

Format	Description
HH:mm	HH, the hour in 24-hour format. The number zero is added to hours and minutes of only one digit. E.g., 13:30, 01:30
h:mm	h, the hour in 12-hour format. No zero is added to hours of only one digit. E.g., 1:30
hh:mm tt	tt, the indicator of AM/PM. hh, the hour in 12-hour format. The number zero is added to hours of only one digit. E.g., 01:30 AM
h:mm tt	E.g., 1:30 AM
HH:mm:ss	ss, the second. The number zero is added to seconds of only one digit. E.g., 01:30:05
h:mm:ss	E.g., 1:30:05
hh:mm:ss tt	E.g., 01:30:05 AM
h:mm:ss tt	E.g., 1:30:05 AM
HHmm	E.g., 1330
Hmm	H, the hour in 24-hour format. No zero is added to hours of only one digit. E.g., 130
HHmmss	E.g., 013005
hmmss	E.g., 13005

A.2.4 Time Duration Format Type

Format	Description
HH:MM	Duration in hour and minute.

Format	Description
	E.g., 01:30
MM	Duration in minute. E.g., 120

A.3 Object Description

A.3.1 AccessLevel

The table here shows the access level information.

Parameter Name	Req. or Opt.	Data Type	Description
accessLevelId	Req.	String	Access level ID. The maximum length is 64.
accessLevelName	Opt.	String	Access level name. The maximum length is 64.

A.3.2 AccessLevelFailed

The table here shows the failed access level information.

Parameter Name	Req. or Opt.	Data Type	Description
personId	Opt.	String	Person ID.
personName	Opt.	String	Person name.
accessLevelId	Opt.	Integer	Access level ID.
accessLevelName	Opt.	String	Access level name.
errorCode	Opt.	String	Error code.

A.3.3 AccessLevelInfo

The table here shows the access level information.

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt.	String	Unique ID.
name	Opt.	String	Name.
remark	Opt.	String	Remark.
usageType	Opt.	Integer	Usage type: 0 (user), 1 (system). The default value is 0.
areaInfo	Opt.	*__AreaInfo__*	Area information.
timeSchedule	Opt.	*__IdNameInfo__*	Schedule template information.
associateResList	Opt.	*__AssociateResInfo__* []	Associated resource information.

A.3.4 AccessLevelResponse

The table here shows the returned access level list information.

Parameter Name	Req. or Opt.	Data Type	Description
pageIndex	Opt.	Integer	The current page.
pageSize	Opt.	Integer	Number of records on each page.
totalNum	Opt.	Integer	The total number.
accessLevelList	Opt.	*__AccessLevelInfo__* []	Access level information.

A.3.5 AccessLevelSearchCriteria

The table here shows the access level search criteria.

Parameter Name	Req. or Opt.	Data Type	Description
accessLevelName	Opt.	String	Access level name.
associateResInfoList	Opt.	*__AssociateResId__* []	Door ID list.
timeScheduleIdList	Opt.	String[]	Schedule template ID list.

Parameter Name	Req. or Opt.	Data Type	Description
aresIdList	Opt.	String[]	Area ID list.
depthTraversal	Opt.	Integer	Whether to search by area depth: 1 (yes), 0 (no). The default value is 0.
aresSubNode	Opt.	Integer	Whether to return sub-area tree: 1 (yes), 0 (no). The default value is 0.

A.3.6 AccessLevelSearchRequest

Parameter	Req. or Opt.	Data Type	Description
pageIndex	Opt.	Integer	The current page. The default value is 0.
pageSize	Opt.	Integer	Number of records on each page.
searchCriteria	Opt.	*__AccessLevelSearchCriteria__*	Searching conditions.

A.3.7 AcsSnapPicInfo

Parameter Name	Req. or Opt.	Data Type	Description
snapPicUrl	Opt.	String	Picture URL, URL validity period 24 hours.
snapPicType	Opt.	Integer	Picture type, 0-visible light picture / normal picture, 1-thermal imaging picture.

A.3.8 AddDeviceResponse

The table here shows the returned information of adding a device.

Parameter Name	Req. or Opt.	Data Type	Description
taskId	Opt.	String	Task ID, which consists of up to 256 characters.
failed	Req.	Integer	Number of failed adding tasks, which consists of up to 16 characters.
succeeded	Req.	Integer	Number of successful adding tasks, which consists of up to 16 characters.
total	Req.	Integer	Total number of adding tasks, which consists of up to 16 characters.
deviceList	Opt.	*DeviceList* []	Returned list of successfully added devices.
relatedVehicleInfo	Opt.	*VehicleInfo(1)*	Returned vehicle information.

A.3.9 AlarmCategory

The table here shows the alarm category information.

Parameter Name	Req. or Opt.	Data Type	Description
mainCategory	Opt.	String	Alarm main category, which consists of up to 64 characters. See details in *Alarm Category* .
subCategory	Opt.	String	Alarm sub category, which consists of up to 64 characters. See details in *Alarm Category* .

A.3.10 AlarmDeviceInfo

The table here shows the alarm device information.

Parameter Name	Req. or Opt.	Data Type	Description
devID	Opt.	Integer	Device ID.
devName	Opt.	String	Device name.
devCategory	Opt.	String	Device type.
deviceSerial	Opt.	String	Device serial No.

A.3.11 AlarmEventSource

The table here shows the information about alarm event source.

Parameter Name	Data Type	Description
eventType	Integer	Event type.
sourceID	String	Source ID.
sourceName	String	Source name.
sourceType	String	Source type.
areaID	String	Area ID.
areaName	String	Area name.
deviceInfo	*AlarmDeviceInfo*	Alarm device details.

A.3.12 AlarmFile

The table here shows the details about an alarm file .

Parameter Name	Req. or Opt.	Data Type	Description
type	Opt.	String	File format: 1-picture, 2-video.
URL	Opt.	String	URL of an alarm file (valid for 15 minutes).
saveState	Opt.	String	Saving status of an alarm file: 0-saving succeeded, 1-to be uploaded, 2-saving in process,

Parameter Name	Req. or Opt.	Data Type	Description
			3-saving failed, 4-capturing in process, 5-capturing failed.
generationMode	Opt.	String	Generation mode of an alarm file: "1" (upload alarms), "2" (capture picture by event linkage).
encrypted	Opt.	String	Encryption status of an alarm file: "0" (unencrypted), "1" (encrypted).
extendInfo	Opt.	*AlarmFileExtendInfo*	Extended information of an alarm file.

A.3.13 AlarmFileExtendInfo

The table here shows the extended information of an alarm file.

Parameter Name	Req. or Opt.	Data Type	Description
sourceID	Opt.	String	Source ID of an alarm file.
sourceName	Opt.	String	Source name of an alarm file.
sourceType	Opt.	String	Source type of an alarm file.
captureIndex	Opt.	String	Captured picture type: "1" (take pictures before an event occurs), "2" (take pictures when an event occurs), "3" (take pictures after an event occurs).

A.3.14 AlarmFileInfo

The table here shows the alarm file information.

Parameter Name	Req. or Opt.	Data Type	Description
fileContent	Opt.	String	File content: "1"-picture included, "2"-video included, "1,2"-both included.
file	Opt.	*AlarmFile* []	Alarm file.

A.3.15 AlarmInfo

The table here shows the alarm information.

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt.	String	Camera ID.
name	Opt.	String	Camera name.
online	Opt.	String	Online status.
area	Opt.	*Area*	Area information.
device	Opt.	*DeviceByResource*	Device information.

A.3.16 AlarmInputChannel

The table here shows the information of an alarm input channel.

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt.	String	ID.
name	Opt.	String	Name.
no	Opt.	String	Channel No.
online	Opt.	String	Online status.
area	Opt.	Object	Area information. See details in *Area* .

A.3.17 AlarmInputInfo

The table here shows the alarm input information.

Parameter Name	Req. or Opt.	Data Type	Description
id	Req.	String	Physical resource ID of alarm input.
status	Req.	Integer	Status: 0-unknown, 1-activated, 2-not activated.
errorCode	Req.	String	Error code.

A.3.18 AlarmLinkageConfig

The table here shows the information of the alarm linkage.

Parameter Name	Data Type	Description
linkCamera	***LinkCamera***	Linked camera.
linkAlarmOutput	***LinkAlarmOutput***	Linked alarm output.

A.3.19 AlarmLinkage

The table here shows the information returned from alarm linkage rule operation.

Parameter Name	Data Type	Description
itemID	String	Alarm linkage ID.
alarmRuleID	String	Alarm rule ID.
linkageType	String	Linkage type.
errorCode	String	Error code.

A.3.20 AlarmMsg

The table here shows the information of an alarm event..

Parameter Name	Data Type	Description
guid	String	GUID.
dataRetransmission	Integer	Whether it is real-time alarm: 0-alarm uploaded via ANR, 1-alarm uploaded in real-time.

Parameter Name	Data Type	Description
msgType	String	Alarm message type: "0" (end message), "1" (start message, or pulse, repeated GUID means pulse), "2" (confirm message), "3" (mark message).
alarmState	String	Whether the alarm is in start status: "1" (start), "0" (end).
pulseAlarm	String	Whether the alarm is pulse alarm: "0" (non-pulse alarm), "1" (pulse alarm).
alarmMainCategory	String	Alarm main category.
alarmSubCategory	String	Alarm sub category.
timeInfo	*AlarmTimeInfo*	Alarm time.
eventSource	*AlarmEventSource*	Alarm event source.
alarmRule	*AlarmRule*	Alarm rule.
alarmPriority	*AlarmPriority*	Alarm priority.
markState	String	Whether the alarm is tagged: "0" (untagged), "1" (tagged).
affirmedState	String	Whether the alarm is acknowledged: "0" (unacknowledged), "1" (acknowledged).
fileInfo	*AlarmFileInfo*	Alarm file details.
linkageType	String[]	Linkage type: "0"-recording linkage, "1"-GIS map linkage, "2"-alarm output linkage, "3"-pop-up window linkage, "4"-door linkage.
linkageConfig	*AlarmLinkageConfig*	Linkage configuration.
vehicleRelatedInfo	*VehicleRelatedInfo*	Linked vehicle information.
queueRelatedInfo	*QueueRelatedInfo*	Queuing-alarm related information.
anprInfo	*ANPRInfo*	Vehicle blocklist/allowlist alarm event details.

A.3.21 AlarmOutputChannel

The table here shows the information of an alarm output channel.

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt.	String	ID.
name	Opt.	String	Name.
no	Opt.	String	Channel No.
online	Opt.	String	Online status.
area	Opt.	Object	Area information. See details in **_Area_** .

A.3.22 AlarmOutputOperation

The table here shows information of alarm output control.

Parameter Name	Data Type	Description
alarmOutputID	String	Alarm output ID.
alarmOutputState	String	Alarm output status.
errorCode	String	Error code.

A.3.23 AlarmOutputState

The table here shows information about alarm output state.

Parameter Name	Data Type	Description
id	String	Alarm output ID.
status	Integer	Alarm output status: 0 (closed), 1 (open).
errorCode	String	Error code.

A.3.24 Alarmpriorities

The table here shows the details of an alarm priority.

Parameter Name	Data Type	Description
ID	String	Alarm priority ID.
level	String	Alarm priority level, which contains level 1 (the highest level), 2, and 3.
levelName	String	Priority level name.
color	String	Alarm priority level color, which is the value of RGB, for example: #F40B0B.
audioName	String	Alarm audio name.
audioURL	String	Alarm audio URL.

A.3.25 AlarmPriority

The table here shows the information displayed in an alarm priority list.

Parameter Name	Data Type	Description
ID	String	Alarm priority ID.
level	String	Alarm priority level, which contains level 1 (the highest level), 2, and 3.
levelName	String	Alarm priority name.
color	String	Alarm priority level color, which is the value of RGB, for example: #F40B0B.

A.3.26 AlarmResourceInfo

The table here shows the alarm resource information.

Parameter Name	Req. or Opt.	Data Type	Description
ID	Req.	String	Resource ID, which consists of up to 32 characters.
name	Opt.	String	Resource name, which consists of up to 64 characters.

A.3.27 AlarmRuleDetail

The table here shows the details of an alarm rule.

Parameter Name	Data Type	Description
ID	String	Alarm rule ID.
name	String	Alarm rule name.
description	String	Alarm rule description.
color	String	Alarm rule color.
enable	String	Whether to enable alarm rule: "0" (disable), "1" (enable).
state	String	Alarm rule status: "0" (normal), "1" (exception).
alarmMainCategory	String	Aalrm main category.
alarmSubCategory	String	Alarm sub category.
notification	*Notification*	Notification configuration.
schedule	*Schedule*	Alarm schedule template.
priority	*Priority*	Alarm priority.
ignoreRecurring	*IgnoreRecurring*	Auto-close alarming window.
eventSource	*EventSource*	Event source.

A.3.28 AlarmRuleOperation

The table here shows the information returned from alarm rule operation.

Parameter Name	Data Type	Description
id	String	Alarm rule ID.
name	String	Alarm rule name
errorCode	String	Error code, only returned for the operation of adding alarm rules, and not for the operation of updating alarm rules.

A.3.29 AlarmRule

The table here shows the information about alarm rules.

Parameter Name	Data Type	Description
id	String	Alarm rule ID.
name	String	Alarm rule name.
description	String	Alarm rule details.

A.3.30 AlarmTimeInfo

The table here shows the alarm time information.

Parameter Name	Data Type	Description
startTime	String	Alarm start time (refers to device local time), which is in ISO 8601 standard time format (see details in ***ISO 8601 Time Format Instruction***), e.g., "2021-12-12T12:12:12+08:00".
endTime	String	Alarm end time (refers to device local time), which is in ISO 8601 standard time format (see details in ***ISO 8601 Time Format Instruction***), e.g., "2021-12-12T12:12:12+08:00".

A.3.31 ANPRInfo

The table here shows the ANPR information.

Parameter Name	Data Type	Description
driveDirection	Integer	Driving direction: 0-backward, 1-forward.
licensePlate	String	License plate No.
pictureInfo	List< ***PictureInfo*** >	Captured picture and coordinates.
vehicleListType	Integer	List type: 0-blocklist, 1-allowlist.

A.3.32 Area

The table here shows the information of an area.

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt.	String	Area ID.
name	Opt.	String	Area name.

A.3.33 AreaBrief

The table here shows the area information.

Parameter Name	Data Type	Description
areaId	String	Area ID.

A.3.34 AreaInfo

The table here shows the area information.

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt.	String	Area ID.
name	Opt.	String	Area name.
area	Opt.	*IdNameInfo* []	Sub-area information.

A.3.35 AssociateResId

The table here shows the associated resource ID.

Parameter Name	Req. or Opt.	Data Type	Description
resId	Opt.	String	Resource ID.

A.3.36 AssociateResInfo

The table here shows the associated resource information.

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt.	String	Resource ID.
name	Opt.	String	Resource name.
type	Opt.	Integer	Resource type.
areaInfo	Opt.	*IdNameInfo*	Area information.

A.3.37 Attachment

The table here shows the attachment information.

Parameter Name	Data Type	Description
url	String	Attachment (pictures/videos) URL (valid for 15 minutes).

A.3.38 BasicInfo(1)

The table here shows event's basic information.

Parameter Name	Data Type	Description
occurrenceTime	String	Event time in ISO 8601 format. For example, 2021-08-01T12:30:00+08:30.
msgType	String	Event type.
resource	*Resource*	Resource information.
device	*DeviceBrief*	Device information.

A.3.39 BasicInfo(2)

The table here shows device information in authentication event of message subscription.

Parameter Name	Req. or Opt.	Data Type	Description
systemId	Opt.	String	System ID.
eventType	Opt.	Integer	Event type, delete prefix "Msg", type is Integer.

Parameter Name	Req. or Opt.	Data Type	Description
elementId	Opt.	String	Element ID.
elementType	Opt.	Integer	Element type, door (1002), alarm input (1003), access control (2002), two-way audio device (2008).
elementName	Opt.	String	Element name.
areaId	Opt.	String	Area ID.
areaName	Opt.	String	Area name.
occurTime	Opt.	String	Occurred time, ISO format.
deviceId	Opt.	String	Device ID.
deviceSerial	Opt.	String	Device serial No.
deviceName	Opt.	String	Device name.
channelNo	Opt.	Integer	Channel No.
currentEvent	Opt.	Integer	Whether the current event, 0: offline, 1: current. It is current event without this field.
serialNo	Opt.	Integer	Event serial No.
cardReaderId	Opt.	String	Card reader ID.

A.3.40 BriefArea

The table here shows the information of an area.

Parameter Name	Req. or Opt.	Data Type	Description
id	Req.	String	Area ID.
name	Req.	String	Area name.
parentAreaID	Opt.	String	Parent area ID.
existSubArea	Req.	Integer	Whether there are sub areas in the current area: 0 (no), 1 (yes).
areaPath	Req.	String	Detailed path starting from the origin area to the current area (e.g., root->a->b).

A.3.41 Building

The table here shows the building information.

Parameter Name	Req. or Opt.	Data Type	Description
buildId	Req.	String	Building ID. The maximum length is 64.
buildName	Req.	String	Building name.
areaId	Req.	String	Area ID.
areaName	Req.	String	Area name.
totalRoom	Req.	Integer	Total number of rooms.
totalPerson	Req.	Integer	Total number of residents.
deviceNames	Opt.	String	Device name(s). Use comma to separate multiple items.

A.3.42 BuildingSearchCriteria

The table here shows the building search conditions.

Parameter Name	Req. or Opt.	Data Type	Description
areaId	Req.	String	Area ID: -1 (root area). The maximum length is 64.
isContainSubArea	Opt.	Integer	Whether the child areas are included: 0 (no), 1 (yes). The child areas are not included by default.
filterName	Opt.	String	Building name.

A.3.43 CameraChannel

The table here shows information of a camera channel.

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt.	String	Channel ID.
name	Opt.	String	Name.
no	Opt.	String	Channel No.
online	Opt.	String	Online status.
area	Opt.	Object	Area information. See details in ***Area*** .

A.3.44 CameraInfo

The table here shows the camera information.

Parameter Name	Data Type	Description
id	String	Camera ID.
name	String	Camera name.
abilitySet	String	The capability set of the camera. See details of specific values in ***Capability Set*** .
online	String	Online status: "1"-online, "0"-offline.
area	***Area***	Area information.
device	***DeviceByResource***	Device information.

A.3.45 Card(1)

The table here shows he failed card details returned by card information updating.

Parameter Name	Req. or Opt.	Data Type	Description
cardId	Opt	String	Card ID.
cardNo	Opt	String	Card No.
errorCode	Opt	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.

A.3.46 Card(2)

The table here shows the card information linked with person information.

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt	String	Card ID.
cardNo	Opt	String	Card No.

A.3.47 CardFailed

The table here shows the failure information returned by card information updating.

Parameter Name	Req. or Opt.	Data Type	Description
personId	Opt.	String	Person ID.
personName	Opt.	String	Person name.
errorCode	Opt.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
cardList	Opt.	***Card(1)***	Failed card list.

A.3.48 CertificateInfo

The table here shows authentication event information of message subscription.

Parameter Name	Req. or Opt.	Data Type	Description
event	Opt.	***Event(2)***	Opening door event.

A.3.49 CertificateStatus

The table here shows the credential applying status.

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt.	String	Unique ID.
status	Opt.	String	Applying status: 0 (applied), 1 (to be applied), 2 (applying failed), 3 (deleting failed).
type	Opt.	Integer	Credential type: 0 (physical card), 1 (fingerprint), 2 (face), 3 (person). The default value is 2.
errorCode	Opt.	String	Error code.
message	Opt.	String	When the error code is VMS040112, this node is the employee No. when the fingerprint is duplicate.

A.3.50 ChannelInfo

The table here shows the channel information.

Parameter Name	Data Type	Description
id	String	Channel ID.
no	String	Channel No.

A.3.51 CloudStorage

The table here shows the overview of the cloud storage service.

Parameter Name	Data Type	Description
category	Integer	Cloud storage type: 1 (cloud storage via NVR), 2 (Hik-ProConnect box).
no	Integer	Channel No.
sn	String	Device serial No.

A.3.52 CloudStorageInfo

The table here shows the information of the cloud storage service.

Parameter Name	Req. or Opt.	Data Type	Description
usingAmountFor7Days	Opt.	String	Channel number of 7-day cloud storage service.
usingAmountFor30Days	Opt.	String	Channel number of 30-day cloud storage service.
remainingAmount	Opt.	String	Channel number of the remaining cloud storage service.

A.3.53 CloudStorageDetail

The table here shows the details of the cloud storage service.

Parameter Name	Req. or Opt.	Data Type	Description
storageType	Opt.	String	Cloud storage type: "7Days" (7-day cloud storage service), "30Days" (30-day cloud storage service).
purchaseAmount	Opt.	String	Channel number of the purchased cloud storage service, unit: day.

A.3.54 CombineBaseInfo

Parameter Name	Req. or Opt.	Data Type	Description
systemId	Req.	String	System ID.
occurrenceTime	Req.	String	Event time, in ISO 8601 standard time format: yyyy-MM-ddTHH:mm:ss +current zone, e.g., 2018-07- 26T15:00:00+08:00.
dataRetransmission	Opt.	Integer	Whether it is real-time alarm: 0-alarm uploaded in real-time, 1-alarm uploaded via ANR.
resourceInfo	Opt.	*CombineResourceInfo*	Resource information.

A.3.55 CombineDeviceInfo

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt.	String	Device ID
deviceSerial	Req.	String	Device serial No.
name	Opt.	String	Device name.
category	Opt.	String	Device type.

A.3.56 CombineEvent

Parameter Name	Req. or Opt.	Data Type	Description
eventId	Req.	Integer	Event ID.
eventType	Req.	String	Event type. See details in ***Alarm Type (V2)*** .
basicInfo	Req.	***CombineBaseInfo***	Basic information.
evenData	Opt.	***CombineEventData***	Extended information for **eventType**. See details in the eventData Schemas information in ***Event Message*** .

A.3.57 CombineEventData

Parameter Name	Req. or Opt.	Data Type	Description
fileInfo	Opt.	***AlarmFileInfo***	Alarm picture information.
vehicleReletedInfo	Opt.	***VehicleRelatedInfo***	Information of vehicles linked with on-board devices.
queueReletedInfo	Opt.	***QueueRelatedInfo***	Queuing-related alarm information.
anprInfo	Opt.	***ANPRInfo***	ANPR information.
deviceTalkInfo	Opt.	***DeviceTalkInfo***	Video intercom information.

A.3.58 CombineResourceInfo

Parameter Name	Req. or Opt.	Data Type	Description
sourceID	Opt.	String	Resource ID.
sourceType	Opt.	String	Resource type.
sourceName	Opt.	Integer	Resource name.
areaID	Opt.	String	Area ID.
areaName	Opt.	String	Area name.
deviceInfo	Req.	***CombineDeviceInfo***	Device information.

A.3.59 CommonFailed

The table here shows common failure information.

Parameter Name	Req. or Opt.	Data Type	Description
personId	Opt.	String	Person ID.
message	Opt.	String	Error description.
errorCode	Opt.	String	Error code.

A.3.60 DataBean

The table here shows the event's extended information.

Parameter Name	Req. or Opt.	Data Type	Description
deviceTalkInfo	Opt.	***DeviceTalkInfo***	Video intercom event (140001) details.
vehicleRelatedInfo	Opt.	***VehicleRelatedInfo***	On-board monitoring event details.
openDoorInfo	Opt.	***CertificateInfo***	Authentication event information.

A.3.61 Device

The table here shows the information of a device.

Parameter Name	Req. or Opt.	Data Type	Description
id	Req.	String	Device ID.
name	Req.	String	Device name.
category	Opt.	String	Device type.
type	Opt.	String	Device model.
serialNo	Opt.	String	Device serial No.
version	Opt.	String	Firmware version.
timeZone	Opt.	String	Time zone No.
onlineStatus	Opt.	Integer	Network status: 0 (offline), 1 (online), 2 (unknown).
addTime	Opt.	String	Added time.

A.3.62 DeviceBaseInfo

The table here shows basic information about the device.

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt.	String	Device ID.
name	Opt.	String	Device name.
category	Opt.	String	Device type.
serialNo	Opt.	String	Device serial No. (short serial No.).
version	Opt.	String	Device firmware version.
type	Opt.	String	Device model.
streamEncryptEnable	Opt.	Integer	Whether to enable encryption of stream.
availableCameraChannelNum	Opt.	Integer	Number of available camera channels.

Parameter Name	Req. or Opt.	Data Type	Description
availableAlarmInputChannelNum	Opt.	Integer	Number of available alarm input channels.
availableAlarmOutputChannelNum	Opt.	Integer	Number of available alarm output channels.

A.3.63 DeviceBrief

The table here shows the device information.

Parameter Name	Data Type	Description
id	String	Device ID.
name	String	Device name.
category	String	Device category.
deviceSerial	String	Device serial No.

A.3.64 DeviceByResource

The table here shows the information about the device.

Parameter Name	Data Type	Description
devInfo	*DevInfo*	Device details. .
channelInfo	*ChannelInfo*	Channel details.

A.3.65 DeviceInfo

The table here shows the device information.

Parameter Name	Req. or Opt.	Data Type	Description
name	Req.	String	Device name, which consists of up to 64 characters.
ezvizSerialNo	Req.	String	Serial No., which consists of up to 30 characters.

Parameter Name	Req. or Opt.	Data Type	Description
ezvizVerifyCode	Req.	String	Verification code, which consists of up to 30 characters.
userName	Opt.	String	User name, which consists of up to 32 characters.
password	Opt.	String	Password, which consists of up to 16 characters.

A.3.66 DeviceInfo (2)

The table here shows the device information.

Parameter Name	Req. or Opt.	Data Type	Description
name	Req.	String	Device name, which consists of up to 32 characters.
id	Req.	String	Device ID, which consists of up to 32 characters.
userName	Opt.	String	User name, which consists of up to 32 characters.
password	Opt.	String	Password, which consists of up to 16 characters.

A.3.67 DeviceList

The table here shows the returned results of adding a device.

Parameter Name	Req. or Opt.	Data Type	Description
alias	Req.	String	Device alias, which consists of up to 32 characters.
deviceId	Req.	String	Device ID, which consists of up to 32 characters.
deviceSerial	Req.	String	Device serial No., which consists of up to 30 characters.
errorCode	Opt.	String	Error code, which consists of up to 16 characters.

A.3.68 DeviceTalkInfo

The table here shows the video intercom event details.

Parameter Name	Req. or Opt.	Data Type	Description
userId	Opt.	String	User ID of the person added to the room that is called by the video intercom device. This field is empty when no user exists in the called room.
personId	Opt.	String	Person ID of the person added to the room that is called by the video intercom device. This field will be returned only when **callType** is 0 and **userId** is not empty.
roomNumber	Opt.	Integer	ID of the room that is called. This field will be returned only when **callType** is 0.
deviceSerial	Req.	String	Device serial No.
deviceName	Req.	String	Device name.
deviceId	Req.	String	Device ID.
msgId	Req.	String	Call record ID.
msgType	Req.	Integer	Call record type: 0 (pushed call), 1 (call answered by others), 2 (call hung up by the device), 3 (call canceled by the device because no one answers).
callType	Opt.	Integer	Call type: 0-from device to room, 1-from device to call management center.
doorInfos	Opt.	*DoorInfo* []	Door information.

A.3.69 DevInfo

The table here shows the device details.

Parameter Name	Data Type	Description
id	String	Device ID.
category	String	Device main type.
serialNo	String	Device serial No.

A.3.70 DistributionErrorInfo

Parameter Name	Data Type	Description
vehicleId	String	ID of vehicles failed to be applied.
vehicleName	String	Name of vehicles failed to be applied.
errorCode	String	Error code of applying failed.
deviceSerial	String	Device serial No.

A.3.71 DistributionInfo

Parameter Name	Data Type	Description
errorInfo	***DistributionErrorInfo*** []	Information of applying failed.

A.3.72 DoorChannel

The table here shows the information of a door channel.

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt.	String	ID.
name	Opt.	String	Name.
no	Opt.	String	Channel No.
online	Opt.	String	Online status.
area	Opt.	Object	Area information. See details in ***Area*** .

A.3.73 DoorInfo

The table here shows the door information.

Parameter Name	Req. or Opt.	Data Type	Description
doorId	Req.	String	Door ID.
doorName	Req.	String	Door name.

A.3.74 DriverDistributionFail

Parameter Name	Data Type	Description
driverId	String	Driver ID.
driverName	String	Driver's name. .
licensePlate	String	License plate No. / vehicle name.
errorCode	String	Error code.
message	String	Error information.
deviceSerial	String	Device serial No.

A.3.75 DriverGroupInfo

Parameter Name	Data Type	Description
groupId	String	Driver group ID.
groupName	String	Driver group name.
areaId	String	Area ID.
areaName	String	Area name.
peopleCount	Integer	Number of drivers in the group.

A.3.76 DriverInfo (1)

Parameter Name	Req. or Opt.	Data Type	Description
driverName	Opt.	String	License plate No.
driverPhone	Opt.	String	Vehicle ID.
driverFacePic	Opt.	Integer	Speed limit (cm/h).
driverCode	Opt.	String	Driver code value.
id	Opt.	String	Driver ID.

A.3.77 DriverInfo (2)

Parameter Name	Data Type	Description
driverGroupId	String	Driver group No.
driverGroupName	String	Driver group name.
driverId	String	Driver ID.
ID	String	ID auto-generated by the system after the driver is added.
facepicUrl	String	Driver face picture URL.
driverName	String	Driver's name. .
driverCode	String	Driver No.
gender	String	gengder: 0 (unknown, 1 (man), 2 (female).
phone	String	Phone No.
email	String	Email.
description	String	Description.
distributionStatus	Integer	Applying status: 0 (not applied), 1 (applying), 2 (applied), 3 (applying failed).
distributionInfo	*DistributionInfo*	Face picture applying information.
relatedVehicles	*RelatedVehicleInfo*	On-board monitoring related information.
driverLicenseInfo	*DriverLicenseInfo*	Driving license information.

A.3.78 DriverLicenseInfo

Parameter Name	Data Type	Description
licenseNo	String	Driving license No.
imageUrl	String	Driving license picture URL.
validTime	String	Validity, in ISO time format: yyyy-MM-ddTHH:mm:ss.

A.3.79 DriverLicenseAddInfo

Parameter Name	Data Type	Description
licenseNo	String	Driving license No.
imageData	String	Driving license picture data, encoded by Base64, max size: 5 MB.
validTime	String	Validity, in ISO time format: yyyy-MM-ddTHH:mm:ss.

A.3.80 DriverGroupInfo

Parameter Name	Data Type	Description
groupId	String	Driver group ID.
groupName	String	Driver group name.
areaId	String	Area ID.
areaName	String	Area name.
peopleCount	Integer	Number of drivers in the group.

A.3.81 ElementDetail

The table here shows the credential details.

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt.	String	Unique ID.
name	Opt.	String	Name.
type	Opt.	Integer	Resource type: 0 (door), 1 (device). The default value is 0.
elementStatus	Opt.	*ElementStatus*	Applying status of the resource.
certificateStatusList	Opt.	*CertificateStatus* []	Applying status of the credential. It is returned when applying failed.

A.3.82 ElementStatus

The table here shows the applying status of the resource.

Parameter Name	Req. or Opt.	Data Type	Description
status	Opt.	Integer	Applying status: 0 (applied), 1 (to be applied), 2 (applying failed), 3 (deleting failed).
errorCode	Opt.	String	Error code.

A.3.83 Event(1)

The table here shows the event information.

Parameter Name	Req. or Opt.	Data Type	Description
uuid	Opt.	String	UUID of on-board monitoring messages.
update	Opt.	Boolean	Whether it is updated information: true-yes (added pictures/videos comparing to the previous upload), false-no.
basicInfo	Req.	*BasicInfo(1)*	Basic information.
picture	Opt.	*Attachment* []	Picture information.
video	Opt.	*Attachment* []	Video information.
data	Opt.	*DataBean*	Extended information.

A.3.84 Event(2)

The table here shows authentication event in authentication event information of message subcription.

Parameter Name	Req. or Opt.	Data Type	Description
basicInfo	Opt.	*BasicInfo(2)*	Device information.
intelliInfo	Opt.	*IntelliInfo*	Person information.

A.3.85 EventSource

The table here shows the event source information.

Parameter Name	Req. or Opt.	Data Type	Description
eventType	Opt.	String	Event type, which consists of up to 64 characters.
sourceID	Opt.	String	Alarm source ID, which consists of up to 64 characters.
sourceType	Opt.	String	Alarm source type, which consists of up to 64 characters. See details in **_Alarm Source_** .
sourceName	Opt.	String	Alarm source name, which consists of up to 64 characters.

A.3.86 FailedResult

The table here shows the information of the room where the number of persons exceeds the limit.

Parameter Name	Req. or Opt.	Data Type	Description
buildName	Req.	String	Building name, for identifying the rooms with limit-reached number of persons.
roomNum	Req.	Integer	Room No.
roomName	Req.	String	Room name.
errorCode	Req.	String	Error code (VMS038005 supported only currently).

A.3.87 Finger(1)

The table here shows the failed fingerprint details returned by fingerprint information updating.

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt	String	Fingerprint ID.
failedName	Opt	String	Fingerprint name.
errorCode	Opt	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.

A.3.88 Finger(2)

The table here shows the fingerprint information linked with person information.

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt	String	Fingerprint ID.
name	Opt	String	Fingerprint name.
data	Opt	String	Fingerprint data.

A.3.89 FingerFailed

The table here shows failure information returned by fingerprint information updating.

Parameter Name	Req. or Opt.	Data Type	Description
personId	Opt.	String	Person ID.
personName	Opt.	String	Person name.
errorCode	Opt.	String	Response status or error code: 0-succeeded, other codes-failed (refer to ***Status and Error Code*** for details). Each code can contain up to 32 characters.
fingerList	Opt.	***Finger(1)***	Failed fingerprint list.

A.3.90 GetDeviceInfo

The table here shows the returned information of device details.

Parameter Name	Req. or Opt.	Data Type	Description
baseInfo	Opt.	Object	Device information. See details in ***DeviceBaseInfo*** .
cameraChannel	Opt.	***CameraChannel*** []	Camera list.
alarmInputChannel	Opt.	***AlarmInputChannel*** []	Alarm input list.
alarmOutputChannel	Opt.	***AlarmOutputChannel*** []	Alarm output list.
doorChannel	Opt.	***DoorChannel*** []	List of doors.
relatedVehicleInfo	Opt.	***VehicleInfo(1)***	Information of the linked vehicle.
onlineStatus	Opt.	Integer	Device online status, which consists of 1 character.
timeZoneID	Opt.	String	Time zone ID, which consists of up to 8 characters.

A.3.91 GetDevicesResVo

The table here shows the device list structure.

Parameter Name	Req. or Opt.	Data Type	Description
totalCount	Opt.	Integer	Total number of pages.
pageIndex	Opt.	Integer	Current page No.
pageSize	Opt.	Integer	Number of items per page.
device	Opt.	***Device*** []	Information of device list.

A.3.92 GPSInfo

The table here shows the GPS information.

Parameter Name	Req. or Opt.	Data Type	Description
ew	Req.	String	E-east longitude, W-west longitude.
lng	Req.	String	Longitude (e.g., 120.218048) (unit: degree).
ns	Req.	String	N-north latitude, S-south latitude.
lat	Req.	String	Latitude (unit: degree).
direction	Req.	Integer	Direction (unit: degree, calculated clockwise from due north (0)).
height	Opt.	Integer	Height (unit: cm)
speed	Req.	Integer	Speed (cm/h).

A.3.93 IdNameInfo

The table here shows the ID and name information.

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt.	String	Unique ID.
name	Opt.	String	Name.

A.3.94 IgnoreRecurring

The table here shows the information of an auto-closing alarming window.

Parameter Name	Req. or Opt.	Data Type	Description
enable	Req.	String	Whether to enable auto-close alarming window: 0 (disable), 1 (enable), which consists of up to 1 character.
timeValue	Opt.	String	Time, which consists of up to 16 characters.

A.3.95 ImportToArea

The table here shows whether to import to area automatically.

Parameter Name	Req. or Opt.	Data Type	Description
enable	Opt.	Intger	Whether to import device resources to area (channel, alarm input, and alarm output) automatically: 0 (no), 1 (yes). And the field consists of 1 character.
areaID	Opt.	String	When area ID is empty, the area will be created according to device name. And the field consists of up to 32 characters.

A.3.96 IntelliInfo

The table here shows person information in openning door event of message subscription.

Parameter Name	Req. or Opt.	Data Type	Description
cardNumber	Opt.	String	Card No.
personId	Opt.	String	Person ID.
firstName	Opt.	String	Person first name.
lastName	Opt.	String	Person last name.
fullPath	Opt.	String	Person department full path.
phoneNum	Opt.	String	Phone number.
personPicUrl	Opt.	String	Person picture URL.
groupId	Opt.	String	Person group ID.
attendanceStatus	Opt.	Integer	Person attendance status, 0-undefined, 1-on work, 2-off work, 3-break starts, 4-break ends, 5-overtime starts, 6-overtime ends.
authResult	Opt.	Integer	Authentication result, whether swiping card succeeded, 1-true, 0-false.

A.3.97 LicenseInfo

Parameter Name	Req. or Opt.	Data Type	Description
licenseNo	Opt.	String	License plate No.
invalidTime	Opt.	String	License validity.
imageUrl	Opt.	String	License profile picture.

A.3.98 LinkageAlarmOutput

The table here shows the information of an alarm output linked to an alarm.

Parameter Name	Req. or Opt.	Data Type	Description
autoClose	Opt.	Integer	Types of closing alarm window : 0 (manually closing alarm window), 1 (automatically closing alarm window), which consists of up to 1 character.
autoCloseTime	Opt.	Integer	The time of auto-closing alarm window, which consists of up to 16 characters.
camera	/	*AlarmResourceInfo* []	Alarm resource parameters.

A.3.99 LinkageCamera

The table here shows the information of an linked camera .

Parameter Name	Req. or Opt.	Data Type	Description
preRecordTime	Opt.	String	Pre-record time, which consists of up to 64 characters.
postRecordTime	Opt.	String	Post-record time, which consists of up to 64 characters.
camera	Opt.	*AlarmResourceInfo* []	Alarm resource information.
relateType	Req.	Integer	Linked alarm type: 1 (link to the corresponding camera), 2 (link to another

Parameter Name	Req. or Opt.	Data Type	Description
			camera); this node consists of up to 16 characters.
selfRelated	Opt.	*SelfRelated*	Related storage information.

A.3.100 LinkageConfig

The table here shows the alarm linkage information.

Parameter Name	Data Type	Description
linkCamera	*LinkageCamera*	Camera linked to the alarm.
linkCapturePicture	*LinkCapturePicture*	Captured pictures linked to the alarm.
linkEmail	*LinkEmail*	Email linked to the alarm.
linkAlarmOutput	*LinkageAlarmOutput*	Alarm outputs linked to the alarm.

A.3.101 LinkageItem

The table here shows the linkage of an alarm.

Parameter Name	Req. or Opt.	Data Type	Description
linkageType	Opt.	String	Linkage type, which consists of up to 64 characters.
linkageConfig	/	*LinkageConfig*	Linkage configuration.

A.3.102 LinkAlarmOutput

The table here shows the linked alarm output.

Parameter Name	Data Type	Description
alarmOutput	*AlarmResourceInfo* []	Alarm resource information.

A.3.103 LinkCamera

The table here shows the information of an linked camera.

Parameter Name	Data Type	Description
preRecordTime	String	Pre-record time.
postRecordTime	String	Post-record time.
camera	***AlarmResourceInfo*** []	Alarm resource information.

A.3.104 LinkCapturePicture

The table here shows the information of an captured picture linked to an alarm.

Parameter Name	Req. or Opt.	Data Type	Description
captureInterval	Opt.	Integer	Capture interval, unit: second, which consists of up to 16 characters.
captureMode	Opt.	String	Capture mode: "1" (capture the picture when the event occurs), "2" (capture each picture before, when, and after the event occurs, and), which consists of up to 1 character.
camera	Opt.	***AlarmResourceInfo*** []	Alarm resource information.

A.3.105 LinkEmail

The table here shows the information of an email template linked to an alarm.

Parameter Name	Req. or Opt.	Data Type	Description
emailTemplateId	Opt.	String	Email template ID, which consists of up to 64 characters.
emailTemplateName	Opt.	String	Email template name, which consists of up to 64 characters.

A.3.106 LocalStorage

The table here shows the local storage information.

Parameter Name	Data Type	Description
recordingStreamType	Integer	Record stream type.
scheduleTemplateId	String	Template ID of local storage schedule.
preRecord	Integer	Whether to enable pre-record: 0 (disable), 1 (enable).
postRecordTime	Integer	Post-record time, unit: second.
anr	Integer	Whether to enable ANR: 0 (disable), 1 (enable).
storageTime	Integer	Storage retention period of records, unite: day. If the value "-1" is returned, it means the records have no limited storage retention period.

A.3.107 Notification

The table here shows the information of an alarm notification.

Parameter Name	Req. or Opt.	Data Type	Description
enable	Req.	Integer	Whether to enable notification: 0 (disable), 1 (enable).
recipients	/	*Recipients* []	User list for receiving notifications.

A.3.108 PackageDetails

The table here shows the details of a service package.

Parameter Name	Req. or Opt.	Data Type	Description
servicePackage	Opt.	*ServicePackage* []	Details of a service package.

A.3.109 PackageOverview

The table here shows the overview of the service package.

Parameter Name	Req. or Opt.	Data Type	Description
servicePackageOverview	Opt.	***ServicePackageOverview*** []	Service package overview.

A.3.110 Person

The table here shows the person information.

Parameter Name	Req. or Opt.	Data Type	Description
personId	Req.	String	Person ID.
firstName	Req.	String	Person's first name.
lastName	Req.	String	Person's last name.
phone	Req.	String	Phone No.
email	Req.	String	Email.
isExpired	Req.	String	Status: 0 (normal), 1 (expired).
photoUrl	Req.	String	URL of the face picture to be applied to the device.
headPicUrl	Req.	String	URL of the profile photo.
roomList	Req.	***RoomDTO*** []	Resident's room information.

A.3.111 PersonBaseInfo(1)

Parameter Name	Req. or Opt.	Data Type	Description
fullPath	Opt.	String	Person group path.
firstName	Opt.	String	First name.
lastName	Opt.	String	Last name.
personCode	Opt.	String	Employee No.
phoneNum	Opt.	String	Phone number.
photoUrl	Opt.	String	Photo URL.
gender	Opt.	Integer	0-female, 1-male, 2-unknown.
email	Opt.	String	Email.

A.3.112 PersonBaseInfo(2)

Parameter Name	Req. or Opt.	Data Type	Description
groupId	Req.	String	Person group ID.
personCode	Req.	String	Employee No., 1-16 characters, digits and letters allowed.
firstName	Req.	String	First name, no more than 255 characters. First name and last name should be no more than 255 characters.
lastName	Req.	String	Last name, no more than 255 characters. First name and last name should be no more than 255 characters.
gender	Req.	Integer	0-female, 1-male, 2-unknown.
phone	Opt.	String	Phone number, no more than 32 characters.
email	Opt.	String	Email address, no more than 64 characters.
description	Opt.	String	Description, no more than 128 characters.
startDate	Req.	String	Validity period start date, ISO time format, e.g.: 2022-10-21T11:08:23+08:00
endDate	Req.	String	Validity period end date, ISO time format, e.g.: 2023-10-21T11:08:23+08:00. The year should be no more than 2037. After the validity period, platform will not delete. You can delete by yourself or renew.

A.3.113 PersonDTO

The table here shows the resident basic information.

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt.	String	Person ID, not required for adding new residents and required for selecting existing residents; required for updating resident information.
personCode	Opt.	String	Person code. 🛈**Note** Update Resident: This node should be empty. Add Resident: This node should be empty if you add new person information for the resident, while this node is required if you add a resident from existing persons.
groupId	Opt.	String	Department ID, for adding or updating person information.
firstName	Req.	String	Person's first name. The maximum length is 128.
lastName	Req.	String	Person's last name. The maximum length is 128.
gender	Req.	Integer	0 (female), 1 (male), 2 (unknown).
phone	Opt.	String	Phone No.
email	Req.	String	Email.
description	Opt.	String	Remark.

Parameter Name	Req. or Opt.	Data Type	Description
startDate	Req.	String	Start time of effective period in ISO 8601 time format.
endDate	Req.	String	End time of effective period in ISO 8601 time format.

A.3.114 PersonGroup

The table here shows the department information.

Parameter Name	Data Type	Description
groupId	String	Department ID.
groupName	String	Department name.
parentId	String	Root department ID.
childNodeExist	Boolean	Whether child departments exist.
permissionState	Boolean	Permission: 0 (no permission), 1 (with permission).
description	String	Description.
areaList	*AreaBrief* []	Area ID list.
groupFullPath	String	Full path.

A.3.115 PersonInfo(1)

The table here shows basic information linked to person.

Parameter	Req. or Opt.	Data Type	Description
personId	Opt.	String	Person ID.
groupId	Opt.	String	Person group ID.
firstName	Opt.	String	First name.
lastName	Opt.	String	Last name.
gender	Opt.	Integer	0-female, 1-male, 2-unknown.

Parameter	Req. or Opt.	Data Type	Description
phone	Opt.	String	Phone number.
email	Opt.	String	Email address.
description	Opt.	String	Description information.
startDate	Opt.	Long	Validity period start date, timestamp format, e.g.: 1659490699376
endDate	Opt.	Long	Validity period end date, timestamp format, e.g.: 1659490699376.
personCode	Opt.	String	Employee No.
headPicUrl	Opt.	String	Face picture URL.

A.3.116 PersonInfo(2)

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt.	String	Person unique ID.
baseInfo	Opt.	*PersonBaseInfo(1)*	Baisc information.

A.3.117 PictureInfo

The table here shows the captured picture information.

Parameter Name	Data Type	Description
pictureURL	String	Captured picture.
plateRect	*PlateRect*	Coordinates.

A.3.118 PlateRect

The table here shows the coordinate information.

Parameter Name	Data Type	Description
X	Integer	X-coordinate.
Y	Integer	Y-coordinate.
width	Integer	Width.
height	Integer	Height.

A.3.119 Priority

The table here shows the alarm priority information.

Parameter Name	Req. or Opt.	Data Type	Description
ID	Req.	String	Alarm priority ID, which consists of up to 64 characters.
level	Opt.	String	Alarm priority level, which contains level 1 (the highest level), 2, and 3. It consists of up to 64 characters.
levelName	Opt.	String	Level name, which consists of up to 64 characters.
color	Opt.	String	Alarm priority level color, which is the value of RGB, for example: #F40B0B. It consists of up to 64 characters.

A.3.120 QueueInfo

The table here shows the information of leaving queue detection alarms.

Parameter Name	Req. or Opt.	Data Type	Description
regionID	Opt.	String	Queuing area ID.
regionName	Opt.	String	Queuing area name.
queueThreshold	Opt.	Integer	Queuing time threshold.
peopleTargetId	Opt.	Integer	Target persons whose queuing time has exceeded the alarm threshold.
waitTime	Opt.	Long	The actual waiting duration for the person (unit: second).

Parameter Name	Req. or Opt.	Data Type	Description
startTime	Opt.	String	Queuing start time in ISO 8601 format, which is represented by "yyyy-MM-ddTHH:mm:ss+current time zone", e.g., "2018-07-26T15:00:00+08:00".
endTime	Opt.	String	Queuing end time in ISO 8601 format, which is represented by "yyyy-MM-ddTHH:mm:ss+current time zone", e.g., "2018-07-26T15:00:00+08:00".

A.3.121 QueueRelatedInfo

The table here shows the specific queuing-related alarms.

Parameter Name	Req. or Opt.	Data Type	Description
queueInfo	Opt.	*QueueInfo*	Leaving queue detection alarms.

A.3.122 ReceivingSchedule

The table here shows the information of an arming schedule template.

Parameter Name	Data Type	Description
ID	String	ID of an arming schedule template.
name	String	Name of an arming schedule template name.
systemTemplate	Integer	Template type: 0 (custom template), 1 (default template).
timeSetting	*TimeSetting* []	Time settings.

A.3.123 Recipients

The table here shows the recipient information.

Parameter Name	Req. or Opt.	Data Type	Description
userID	Opt.	String	User ID, which consists of up to 32 characters.
userName	Opt.	String	User name, which consists of up to 64 characters.

A.3.124 RecordInfo

The table here shows the information of card swiping record.

Parameter Name	Req. or Opt.	Data Type	Description
recordGuid	Opt.	String	Unique ID.
elementId	Opt.	String	Access control point ID.
elementName	Opt.	String	
elementPicUrl	Opt.	String	Access control point picture URL, URL validity period 2 hours.
elementType	Opt.	Integer	Element type, door: 1002, access control device: 2002, two-way audio device: 2008.
areaId	Opt.	String	
areaName	Opt.	String	
deviceId	Opt.	String	
deviceName	Opt.	String	
acsSnapPicList	Opt.	*__AcsSnapPicInfo__* []	
associatedCameraList	Opt.	String	
cardReaderId	Opt.	String	
cardReaderName	Opt.	String	
occurTime	Opt.	String	
deviceTime	Opt.	String	
eventType	Opt.	Integer	Event type, refers to *__Event(2)__* .

Parameter Name	Req. or Opt.	Data Type	Description
swipeAuthResult	Opt.	Integer	Authentication result, 0: failed, 1: success.
eventMainType	Opt.	Integer	Event main type, 0: normal event, 1: temperature measurement event.
devSerialNo	Opt.	Integer	Event serial No.
hasCameraSnapPic	Opt.	Integer	Whether it has capture linkage.
hasDevVideoRecord	Opt.	Integer	Whether it has device recording.
cardNumber	Opt.	String	
personInfo	Opt.	***PersonInfo(2)***	
temperatureInfo	Opt.	***TemperatureInfo***	
masksStatus	Opt.	Integer	Mask status, 1-unknown, 2-no mask, 3-wearing mask.
attendanceStatus	Opt.	Integer	Attendance status, 0-undefined, 1-on work, 2-off work, 3-break starts, 4-break ends, 5-overtime starts, 6-overtime ends.

A.3.125 RecordListInfo

Parameter Name	Req. or Opt.	Data Type	Description
beginTime	Opt.	String	Start time, in the format of yyyy-MM-ddTHH:mm:ss+08:00.
endTime	Opt.	String	End time, in the format of yyyy-MM-ddTHH:mm:ss+08:00.
targetType	Opt.	String	0 (local device), 1 (cloud storage).

A.3.126 RecordSetting

The table here shows the record settings.

Parameter Name	Data Type	Description
cameraID	String	Camera ID.
enableLocalStorage	Integer	Whether to enable local recording schedule: 0 (disable), 1 (enable).
localStorage	*LocalStorage*	Local storage information.
enableCloudStorage	Integer	Whether to enable cloud storage schedule: 0 (disable), 1 (enable).
cloudStorage	*CloudStorage*	Cloud storage schedule.

A.3.127 RelatedVehicleInfo

Parameter Name	Data Type	Description
plateLicense	String	License plate No. / vehicle name.
vehicleId	String	Vehicle ID.
deviceSerial	String	Device serial No.

A.3.128 RemoteControl

The table here shows the operation of remote control.

Parameter Name	Req. or Opt.	Data Type	Description
actionType	Req.	Integer	Operation type: 1 (unlock door), 2 (lock door), 3 (remain unlocked), 4 (remain locked).
elementlist	Opt.	String[]	Door ID list. All doors are included if this node is empty.
direction	Opt.	Integer	Direction: 0 (enter), 1 (exit). The default value is 0.
areaId	Opt.	String	Area ID. All areas are included if the value is -1.
depthTraversal	Opt.	Integer	Whether to include child areas or not: 1 (yes), 0 (no). The default value is 0.

A.3.129 RemoteControlResponse

The table here shows the results of door control.

Parameter Name	Req. or Opt.	Data Type	Description
elementId	Req.	String	Door ID.
elementName	Req.	String	Door name.
areaId	Req.	String	Area ID.
areaName	Req.	String	Area name.
errorCode	Req.	String	Error code.

A.3.130 ResidentFilter

The table here shows the detailed conditions for resident search.

Parameter Name	Req. or Opt.	Data Type	Description
name	Opt.	String	Resident name.
roomNum	Opt.	Integer	Room No.
email	Opt.	String	Email.
phone	Opt.	String	Phone No.
type	Opt.	Integer	Resident type: 1 (householder), 0 (family member).
isExpired	Opt.	Integer	Status: 0 (normal), 1 (expired). Residents of all status are included if this node is empty.

A.3.131 ResidentSearchRequest

The table here shows the resident search conditions.

Parameter Name	Req. or Opt.	Data Type	Description
areaId	Req.	String	Area ID: -1 (root area). The maximum length is 64.
buildId	Opt.	String	Building ID. The maximum length is 64.
isContainSubArea	Opt.	Integer	Whether the child areas are included: 0 (no), 1 (yes). The child areas are not included by default.
filter	Opt.	___ResidentFilter___	Detailed search conditions.

A.3.132 Resource

The table here shows the resource information.

Parameter Name	Data Type	Description
type	String	Resource type.
id	String	Resource ID.
name	String	Resource name.
areaID	String	Area ID.
areaName	String	Area name.

A.3.133 ResourceAddResult

The table here shows the information about an area.

Parameter Name	Data Type	Description
id	String	Resource ID.
name	String	Resource name.
resourceType	String	Resource type. See details in ___Resource Type___ , e.g., "camera", "alarmInput" (alarm input), "alarmOutput" (alarm output).

Parameter Name	Data Type	Description
channelID	String	Device channel ID.
errorCode	String	Error code: "0" (succeeded), other codes (failed). See details in ***Status and Error Code*** .

A.3.134 RoomDTO

The table here shows the room information.

Parameter Name	Req. or Opt.	Data Type	Description
roomId	Req.	String	Room ID.
roomName	Opt.	String	Room name, which is required for searching residents and is optional for adding/ updating residents.
roomNum	Opt.	Integer	Room No., which is required for searching residents and is optional for adding/ updating residents.
buildId	Req.	String	Building ID.
buildName	Opt.	Integer	Building name, which is required for searching residents and is optional for adding/updating residents.
areaId	Req.	Integer	Area ID.
areaName	Opt.	String	Area name, which is required for searching residents and is

Parameter Name	Req. or Opt.	Data Type	Description
			optional for adding/updating residents.
accountType	Req.	Integer	Resident type: 1 (householder), 0 (family member).

A.3.135 RoomFilter

The table here shows the detailed conditions for room search.

Parameter Name	Req. or Opt.	Data Type	Description
roomNum	Opt.	Integer	Room No.
roomName	Opt.	String	Room name.
personAmount	Opt.	Integer	Number of residents.
email	Opt.	String	Email.
mainAccount	Opt.	String	Householder name.

A.3.136 RoomSearchCriteria

The table here shows the room search conditions.

Parameter Name	Req. or Opt.	Data Type	Description
areaId	Req.	String	Area ID: -1 (root area). The maximum length is 64.
buildId	Opt.	String	Building ID. The maximum length is 64.
isContainSubArea	Opt.	Integer	Whether the child areas are included: 0 (no), 1 (yes). The child areas are not included by default.
filter	Opt.	*RoomFilter*	Detailed search conditions.

A.3.137 RoomVO

The table here shows the room information.

Parameter Name	Req. or Opt.	Data Type	Description
roomId	Req.	String	Room ID.
roomName	Req.	String	Room name.
roomNum	Req.	Integer	Room No.
buildId	Req.	String	Building ID.
buildName	Req.	Integer	Building name.
areaId	Req.	Integer	Area ID.
areaName	Req.	String	Area name.
personAmount	Req.	Integer	The number of residents.
mainAccount	Req.	String	Householder name.
email	Req.	String	Email.
phone	Opt.	String	Phone No.

A.3.138 Schedule

The table here shows the information of an alarm schedule template.

Parameter Name	Req. or Opt.	Data Type	Description
timeSchedule	Opt.	*TimeSchedule*	Alarm schedule template.
type	Opt.	String	Schedule type, which consists of up to 64 characters.

A.3.139 SelfRelated

The table here shows the related information of an linked camera.

Parameter Name	Req. or Opt.	Data Type	Description
storageType	Opt.	Integer	Storage type, which consists of up to 16 characters.

A.3.140 ServicePackage

The table here shows the information of service(s) in a service package.

Parameter Name	Req. or Opt.	Data Type	Description
serviceType	Opt.	String	Service type: "serviceVideo" (video management service), "serviceVehicle" (on-board monitoring service), "serviceAlarmDetection" (alarm detection service).
packageType	Opt.	String	Service package type: "1" (free service package), "2" (on-trial service package), "3" (purchased service package), "4" (complimentary service package).
purchaseAmount	Opt.	Integer	Channel number of the purchased service(s).
activationTime	Opt.	String	Activation time, which is in ISO 8601 standard time format, see details in *ISO 8601 Time Format Instruction* .
expiredTime	Opt.	String	Expiry time, which is in ISO 8601 standard time format, see details in *ISO 8601 Time Format Instruction* .
cloudStorage	Opt.	*CloudStorageDetail* []	Details of the purchased cloud storage service.

A.3.141 ServicePackageOverview

The table here shows the overview of the service(s) in a service package.

Parameter Name	Data Type	Description
serviceType	String	Service type: "serviceVideo" (video management service), "serviceVehicle" (on-board monitoring service), "serviceAlarmDetection" (alarm detection service).
packageType	String	Service package type: "1" (free service package), "2" (on-trial service package), "3" (purchased service package), "4" (complimentary service package).
usingAmount	String	Channel number of the in-using service(s).

Parameter Name	Data Type	Description
remainingAmount	String	Channel number of the remaining service(s).
totalAmount	String	Channel number of the purchased service(s).
lastExpiredTime	String	Expiry time of the latest service.
packageStatus	Integer	Status of the service package: 0 (normal), 1 (exceeded limit), 2 (to be expired), 3 (expired).
cloudStorage	*CloudStorageInfo*	Cloud storage service of the video management service package.

A.3.142 TempAuth

The table here shows the temporary pass information.

Parameter Name	Req. or Opt.	Data Type	Description
id	Req.	String	Temporary pass ID.
openCount	Req.	Integer	Allowed passes for each door.
name	Req.	String	Temporary pass name.
startTime	Req.	Long	Start time (millisecond value). For example, 1672370265000.
endTime	Req.	Long	End time (millisecond value). For example, 1672370265000.
creatorId	Req.	String	Creator ID.
creatorName	Req.	String	Creator name.
creatorEmail	Req.	String	Creator email.
expiredStatus	Req.	Integer	Status: 1 (expired), 0 (normal).
password	Req.	String	Password for opening the door.

A.3.143 TempAuthFilter

The table here shows the detailed conditions for temporary pass search.

Parameter Name	Req. or Opt.	Data Type	Description
name	Req.	String	Temporary pass name or creator name for fuzzy search. The maximum length is 64.

A.3.144 TempAuthSearchRequest

The table here shows the temporary pass search conditions.

Parameter Name	Req. or Opt.	Data Type	Description
filter	Opt.	*TempAuthFilter*	Search conditions.

A.3.145 TemperatureInfo

Parameter Name	Req. or Opt.	Data Type	Description
temperatureData	Opt.	String	Temperature data.
temperatureStatus	Opt.	Integer	Temperature status value, 1-normal, 2-exception, 3-unknown.
temperatureUnit	Opt.	Integer	Temperature unit, 0: Centigrade (°C), 1: Fahrenheit (°F), 2: Kelvin (K)

A.3.146 TimeRange

The table here shows the time range parameters for time-related alarm log search.

Parameter Name	Req. or Opt.	Data Type	Description
beginTime	Req.	String	Start time, which is represented by "yyyy-MM-dd HH:mm:ss", e.g., "2018-07-26 15:00:00".
endTime	Req.	String	End time, which is represented by "yyyy-MM-dd HH:mm:ss", e.g., "2018-07-26 15:00:00".

A.3.147 TimeSchedule

The table here shows the details of an alarm schedule template.

Parameter Name	Req. or Opt.	Data Type	Description
ID	Opt.	String	ID of an alarm schedule template, which consists of up to 32 characters.
Name	Opt.	String	Name of an alarm schedule template, which consists of up to 64 characters.

A.3.148 TimeSetting

The table here shows the time information of an arming schedule template.

Parameter Name	Data Type	Description
dayOfWeek	String	Day of a week.
timeSpan	*TimeSpan* []	Time range.

A.3.149 TimeSpan

The table here shows the time range of an arming schedule template.

Parameter Name	Data Type	Description
beginTime	String	Start time.
endTime	String	End time.

A.3.150 TimeZone

The table here shows information about time zone.

Parameter Name	Req. or Opt.	Data Type	Description
id	Req.	String	Time zone ID, which consists of up to 8 characters.
applyToDevice	Req.	String	Whether to apply to device: "0" (not apply to device), "1" (apply to device). And the field consists of 1 character.

A.3.151 TimeZoneInfo

The table here shows the information about time zone.

Parameter Name	Data Type	Description
id	String	ID.
standardName	String	Standard time zone name.
displayName	String	Displayed time zone name.
bias	Integer	Time difference with GMT, unit: minute.
dst	***TimeZoneDst***	DST settings.

A.3.152 TimeZoneDst

The table here shows time zone DST settings.

Parameter Name	Data Type	Description
daylightBias	String	Time difference with DST, unit: minute.
daylightDate	String	DST start time.

Parameter Name	Data Type	Description
standardDate	String	Standard time, which is the end time of DST.
enable	Integer	Whether to enable DST: 0 (no), 1 (yes).

A.3.153 TotalTimeCardReportData

The table here shows the Total Time Card report data.

Parameter Name	Req. or Opt.	Data Type	Description
firstName	Req.	String	Person's first name.
lastName	Req.	String	Person's last name.
fullName	Req.	String	Person's full name.
personCode	Req.	String	Person's employee No.
groupName	Req.	String	Department name.
date	Req.	String	Date.
weekday	Req.	Integer	Day of a week: 0-Sunday, 1-Monday, 2-Tuesday, 3-Wednesday, 4-Thursday, 5-Friday, 6-Saturday.
timetableName	Req.	String	Time period name.
checkInDate	Req.	String	Required check-in date.
checkInTime	Req.	String	Required check-in time.
checkOutDate	Required	String	Required check-out date.
checkOutTime	Req.	String	Required check-out time.
clockInDate	Req.	String	Actual clock-in date.
clockInTime	Req.	String	Actual clock-in time.
clockInSource	Req.	Integer	Actual clock-in source: 0-unknown, 1-original record, 2-correction application, 3-check-in/out via mobile client, 4-check-in/out not required.
clockInDevice	Req.	String	Actual clock-in device name.

Parameter Name	Req. or Opt.	Data Type	Description
clockInArea	Req.	String	Actual clock-in area name.
clockOutDate	Req.	String	Actual clock-out date.
clockOutTime	Req.	String	Actual clock-out time.
clockOutSource	Req.	Integer	Actual clock-out source: 0-unknown, 1-original record, 2-correction application, 3-check-in/out via mobile client, 4-check-in/out not required.
clockOutDevice	Req.	String	Actual clock-out device name.
clockOutArea	Req.	String	Actual clock-out area name.
attendanceStatus	Req.	Integer	Attendance status: 1-normal, 2-late, 3-early leave, 4-late and early leave, 5-absense, 6-leave.
workDuration	Req.	String	Work hours.
absenceDuration	Req.	String	Absence duration.
lateDuration	Req.	String	Late duration.
earlyDuration	Req.	String	Early leave duration.
breakDuration	Req.	String	Break duration.
leaveDuration	Req.	String	Leave duration.
overtimeDuration	Req.	String	Overtime duration.
workdayOvertimeDuration	Req.	String	Weekday overtime duration.
weekendOvertimeDuration	Req.	String	Weekend overtime duration.

A.3.154 User

The table here shows the user information.

Parameter Name	Data Type	Description
ID	String	User ID.
name	String	User name.

A.3.155 VehicleInfo(1)

The table here shows the vehicle information.

Parameter	Req. or Opt.	Data Type	Description
id	Opt.	String	Vehicle ID.
licensePlateNo	Req.	String	License plate No.
vehicleType	Req.	Integer	Vehicle type: 0-others, 1-car, 2-truck, 3-bus.
driverFirstName	Opt.	String	Driver's first name.
driverLastName	Opt.	String	Driver's last name.
driverPhoneNo	Opt.	String	Driver's phone No.
pictureUrl	Opt.	String	Vehicle picture URL.
extend	Opt.	String	Annotations.
speedLimit	Req.	Integer	Speed limit (cm/h).

A.3.156 VehicleInfo(2)

The table here shows the vehicle information.

Parameter Name	Req. or Opt.	Data Type	Description
licensePlateNo	Req.	String	License plate No.
id	Req.	String	Vehicle ID.
speedLimit	Req.	Integer	Speed limit (cm/h).
driverInfos	Opt.	*DriverInfo (1)* []	Driver information list.

A.3.157 VehicleInfo(3)

The table here shows the vehicle information.

Parameter Name	Req. or Opt.	Data Type	Description
vehicleID	Opt. (Req.)	String	Vehicle ID, the only required parameter to be entered when you link on-board devices with existing vehicles. If the vehicle ID is not empty, linking with the existing vehicle will be prior to adding a new vehicle.
licensePlateNo	Opt. (Req.)	String	License plate No., required with the optional parameters below for adding new vehicles to be linked with on-board devices.
vehicleType	Opt.	Integer	Vehicle type: 0-others, 1-car, 2-truck, 3-bus.
driverFirstName	Opt.	String	Driver's first name.
driverLastName	Opt.	String	Driver's last name.
driverPhoneNo	Opt.	String	Driver's phone No.
pictureKey	Opt.	String	Vehicle picture key.
extend	Opt.	String	Annotations.

A.3.158 VehicleRelatedInfo

The table here shows the information of vehicles linked with on-board devices.

Parameter Name	Req. or Opt.	Data Type	Description
gpsInfo	Opt.	*GPSInfo*	GPS-related information.
vehicleInfo	Opt.	*VehicleInfo(2)*	Vehicle-related information.

A.4 Status and Error Code

Internal Errors

Error Code	Error Description	Debug Suggestion
CCF000001	Parameter error.	Compare documents to check if the parameter is correct.
CCF000004	Database operation failed.	Check the database operation.

Error Code	Error Description	Debug Suggestion
CCF000005	No permission to operate this resource.	Check your permissions.
CCF000007	Internal calling failed.	Check request parameters according to the error message.
CCF038002	Name length exceeded limit.	Adjust name length.
CCF038005	Name cannot contain special characters.	Remove special characters.
CCF038007	User is not assigned with the access level.	Contact the platform to check person's access level.
CCF038009	Person group does not exist.	Person group does not exist.
CCF038014	Invalid first name of person.	Check and edit the first name of person.
CCF038015	Invalid family name of person.	Check and edit the family name of person.
CCF038016	Invalid person ID.	Check person 's personCode.
CCF038017	Invalid person's full name.	Check person's full name.
CCF038019	Invalid person email.	Check email.
CCF038020	Invalid person's phone No.	Check phone No.
CCF038021	Invalid person's description.	Check person's description.
CCF038022	Invalid person's validity.	Check person's validity.
CCF038023	Person does not exist.	Person does not exist.
CCF038024	Person ID already exists.	Check person 's personCode.
CCF038025	Person ID does not exist.	Check person 's personCode.
CCF038026	Person's picture does not exist.	Check person's picture.
CCF038028	Saving person's picture failed.	Check if the picture information is correct.

Error Code	Error Description	Debug Suggestion
CCF038029	No more persons are allowed.	Check the number of added persons (free:100, fee-paying: 50,000.
CCF038031	Adding person failed.	Check all information of added persons.
CCF038032	No more cards for a person are allowed.	Check the number of cards for a person (max. 2).
CCF038034	Duplicate card No.	Duplicate card No.
CCF038035	Card does not exist.	Card does not exist.
CCF038036	Card No. length exceeded limit.	Card No. length exceeded limit.
CCF038037	Card No. is empty.	Check if empty string is entered for card No.
CCF038038	Invalid card No.	Check if card No. meets the requirement.
CCF038039	No more fingerprints for a person are allowed.	Check the number of fingerprints for a person (max. 2).
CCF038042	Fingerprint does not exist.	Fingerprint does not exist.
CCF038052	Email address already exist (remote calling error code).	Email address already exist.
CCF038055	Duplicate person's PIN code.	Set PIN code again.
CCF038059	Updating card failed.	Check the card data.
CCF038060	Updating fingerprint failed.	Check the fingerprint data.
CCF038061	Updating additional attribute failed.	Check if the PIN code configuration is appropriate. Modify the PIN code and try again.
CCF038062	Updating picture failed.	Check the picture data.
CCF038064	No matched department by search condition.	Check if search condition is valid.
CCF038065	Device does not exist.	Check if the device is on the platform.

Error Code	Error Description	Debug Suggestion
CCF038066	Fingerprint data length exceeded limit.	Check fingerprint data length.
CCF038067	Duplicate fingerprint.	Check fingerprint.
CCF038068	Duplicate profile picture.	Check profile picture.
CCF038084	Collecting card No. by device failed.	Check if the device is on the platform.
CCF038085	Collecting fingerprint by device failed.	Check if the device is on the platform.
CCF038089	Phone No. has been occupied.	Check the phone No.
CCF021103	Area name already exists.	Modify the area name.
CCF021307	Device does not exist.	Device does not exist.
CCF021008	Not supported by current device version.	Check if the device supports the function.
EVZ20002	Device does not exist.	Incorrect device registration region or the device does not exist. Please enter the correct device serial number.
EVZ20007	Device offline.	Device offline. Please check its network connection.
EVZ20008	Device response timed out.	Device response timed out.
EVZ20010	Incorrect device verification code.	Incorrect device verification code. Please check the device verification code and try again.
EVZ20013	The device has been added by another account.	The device is already added to a Hik-Connect account or another Hik-ProConnect account.
EVZ20014	Incorrect device serial No.	Incorrect device serial number. Please check the device serial number and try again.
EVZ20017	The device has been added by yourself.	The device has been added by yourself.
LAP000001	Parameter error.	Check API parameters.

Error Code	Error Description	Debug Suggestion
LAP000004	Service calling blow exception.	Calling timed out. Please call again.
VMS000000	System error.	/
VMS000001	Parameter error.	Check API parameters.
VMS000003	No resource found or resource does not exist.	Check if resource exists.
VMS000004	Database operation failed.	Check the database operation.
VMS000005	No permission to operate this resource.	Apply for permission to operate the resource.
VMS000007	Internal calling failed.	Check the system environment.
VMS000008	Redis operation failed.	Check if Redis is normal or check if the request sent to Redis is correct.
VMS000009	Concurrent requests (distributed lock is enabled).	Please try again later, or check if the distributed operations are locked.
VMS001000	Gateway error.	Please try again later, or check if the gateway is normal.
VMS001001	Service instance unavailable. Service is overloaded.	Please try again later, or check if the network is normal.
VMS003001	This email has been registered on the platform.	Please register with another email.
VMS003002	The user does not exist.	Check if the user exists or apply for a new user account.
VMS004004	Invalid role ID.	Check the role ID.
VMS004005	No permission.	Apply for the corresponding permission.
VMS020007	Get information from Hik-Connect.	Check if the device is offline or the registration failed.
VMS021008	The device version is not supported.	Check the device version or change to another device.
VMS021102	The area already exists.	Check if the area already exists.

Error Code	Error Description	Debug Suggestion
VMS021103	The area name already exits.	Change the area name.
VMS021104	No more areas can be added.	Delete some areas or cancel adding areas.
VMS021105	Maximum area levels reached.	Switch the area level.
VMS021106	No more logical resources can be added to the VMS system.	Delete some logical resources from the VMS system or cancel adding logical resources to the VMS system.
VMS021107	No more logical resources can be added to the area.	Delete some logical resources from the area or cancel adding logical resources to the area.
VMS021108	Duplicate license plate No.	License plate No. already exists.
VMS021109	Device already linked with another vehicle.	Device already linked with another vehicle.
VMS021110	Vehicle does not exist.	/
VMS021301	Adding the device...	Please try again later.
VMS021302	The device has been added.	Check if the device has been added.
VMS021303	The device already exits in the system.	Check if the device already exists in the system.
VMS021305	The device name already exists.	Change the device name.
VMS021306	Adding the device timed out.	Please try again later.
VMS021307	The device does not exist.	Check if the device exists.
VMS021308	Refreshing the device...	Please try again later.
VMS021309	Incorrect device type.	Check the device type.
VMS021311	No more devices can be added.	Delete some devices or cancel adding devices.
VMS021314	Device offline.	Check if the device is online.

Error Code	Error Description	Debug Suggestion
VMS021315	Invalid serial No.	Check if the serial No. is valid.
VMS021316	The device belongs to another user.	Check if the device belongs to yourself.
VMS021337	Importing resource failed.	Importing resource failed for adding device.
VMS022531	Ezviz response error.	/
VMS022533	Device response error.	/
VMS022535	Not supported by device.	/
VMS022543	Device offline.	/
VMS022553	Invalid operation.	/
VMS023001	Sending the email failed.	Please try again later.
VMS023002	Duplicate color.	Please try again later.
VMS023003	The priority name already exits.	Change the priority name.
VMS023004	The alarm category name already exists.	Change the alarm category name.
VMS023005	The email template name already exists.	Change the email template name.
VMS023006	The system email is not configured.	Configure the system email first.
VMS023007	Repeatedly acknowledging the alarm.	Check if the alarm is acknowledged.
VMS023008	The alarm configuration already exists.	Check if the alarm configuration already exists.
VMS038005	Number of persons in the room exceeds limit.	Check if the number of persons in the room exceeds the limit.
VMS038009	Adding person failed.	This error message will be sent by the person group when the employee ID is not obtained by the internal protocol.
VMS038011	Wrong person type added to the room.	Check if a householder is added to a room with an existing

Error Code	Error Description	Debug Suggestion
		householder or a family member is added to a room without a householder.
VMS038012	No permission for adding persons to the room.	Check if the person who wants to add persons is the householder.
VMS038014	Resident already in the room.	The resident is already in the room.
VMS038019	The calling record does not exist.	Check the calling record ID.
VMS038026	Email address already exists.	Email address already exists.
VMS038027	Call answered.	Call answered.
VMS038028	Resident does not exist.	Resident does not exist.
VMS038029	Call from device canceled.	Call from device canceled.
VMS040002	Duplicate name.	Edit name.
VMS040003	Name length exceeded limit.	Edit name.
VMS040004	Name is empty	Edit name.
VMS040005	Name contains special characters.	Edit name.
VMS040011	No more access schedule templates are allowed.	Delete access schedule templates.
VMS040012	The default schedule template cannot be modified	Do not modify the default schedule template.
VMS040013	No more access levels are allowed on the platform.	Delete access levels.
VMS040014	No more holidays are allowed.	Delete holiday schedules.
VMS040015	Select at least one access point.	The access point parameter cannot be empty.
VMS040016	Access level does not exist.	Check if the access point exists.

Error Code	Error Description	Debug Suggestion
VMS040017	No more than 4 access schedules can be linked with one person for an access point.	No more than 4 access schedules can be configured for a single person on a single device.
VMS040018	No valid credential for the person.	Check credential information for the person.
VMS040020	The current device is in applying process... Please try again later.	Wait for the current applying to finish.
VMS040101	No more schedule templates are allowed on device.	Delete schedule templates on device.
VMS040102	No more holiday groups are allowed on device.	Delete holiday group schedules on device.
VMS040103	No more holidays are allowed on device.	Delete holiday schedules on device.
VMS040104	No more weekly schedules are allowed on device.	Delete weekly schedules on device.
VMS040105	Access group settings are not applied to device.	Please contact technical support.
VMS040106	Fingerprint length mismatch.	
VMS040107	No valid card reader for the fingerprint currently.	
VMS040108	Applying fingerprint failed.	Please contact technical support.
VMS040109	Fingerprint module offline	
VMS040110	Quality of fingerprint is low.	
VMS040111	No more fingerprints are allowed on card reader.	
VMS040112	Duplicate fingerprint.	
VMS040113	Duplicate fingerprint ID.	
VMS040114	Invalid fingerprint ID.	

Error Code	Error Description	Debug Suggestion
VMS040115	Fingerprint module does not require configuration.	
VMS040116	Device does not support applying fingerprints	
VMS040117	Fingerprint card reader version too old (employee No. not supported).	
VMS040118	Fingerprint type not supported.	
VMS040119	No valid card reader for the face picture currently.	
VMS040120	Visit schedule template does not exist.	
VMS040121	Password length mismatch.	
VMS040122	The current device only supports 6-digit password.	
THD_ISAPI_0x20000004	Device busy.	During fingerprint or card collecting, if the fingerprint or card information are not entered in the request, this error will occur. Please collect information in the regular course.
THD_ISAPI_0x60000003	XML message error (e.g., incorrect value of node).	Please contact technical support.
THD_ISAPI_0x60000017	JSON message error.	Please contact technical support.
THD_ISAPI_0x60000019	Missing parameters in the message.	Please contact technical support.
THD_ISAPI_0x6000001C	Containing invalid characters.	
THD_ISAPI_0x6000001D	Name too long.	
THD_ISAPI_0x60000025	The parameter value exceeded limit.	
THD_ISAPI_0x6000002D	Number of face picture libraries exceeded limit.	

Error Code	Error Description	Debug Suggestion
THD_ISAPI_0x6000002E	Number of face pictures exceeded limit.	
THD_ISAPI_0x6000002F	Picture data detection failed.	
THD_ISAPI_0x60000030	Invalid face picture data PID.	
THD_ISAPI_0x60000031	Invalid face picture library ID.	
THD_ISAPI_0x60000032	Data library version of face picture library mismatch.	
THD_ISAPI_0x60000033	Incorrect verification code.	
THD_ISAPI_0x60000034	Face picture library data error.	
THD_ISAPI_0x60000035	Multi-face target error (multiple valid targets exist among pictures imported to face picture library, and are not differentiated by coordinates).	
THD_ISAPI_0x60000036	No target detected in the picture.	
THD_ISAPI_0x60000037	Sub-picture modeling failed.	
THD_ISAPI_0x60000038	Incorrect name.	
THD_ISAPI_0x60000039	Name already exists.	
THD_ISAPI_0x6000003A	Importing pictures to face picture library...	
THD_ISAPI_0x6000003B	Invalid picture format.	
THD_ISAPI_0x6000003C	Invalid picture resolution.	
THD_ISAPI_0x6000003D	Picture size too large.	
THD_ISAPI_0x6000003E	Picture size too small.	
THD_ISAPI_0x6000005F	The maximum length of password is 16.	

Error Code	Error Description	Debug Suggestion
THD_ISAPI_0x60000060	Password mismatch.	
THD_ISAPI_0x60000063	Deleting failed.	
THD_ISAPI_0x60000068	No data returned from face picture comparison search.	
THD_ISAPI_0x60000069	No data returned from face picture library search.	
THD_ISAPI_0x6000006A	Concurrent processing is not supported. The device is performing operation of picture modeling.	
THD_ISAPI_0x6000006B	No data to be modeled in face picture library.	
THD_ISAPI_0x6000006C	The upper layer applied duplicate custom face picture library ID.	
THD_ISAPI_0x6000006D	The upper layer applied duplicate custom person ID.	
THD_ISAPI_0x6000006E	Dowloading URL failed.	
THD_ISAPI_0x6000006F	Dowloading URL not started yet.	
THD_ISAPI_0x60000071	Internal device modeling error.	
THD_ISAPI_0x60000072	Face picture modeling error.	
THD_ISAPI_0x60000073	Face picture categorization error.	
THD_ISAPI_0x60000074	Face feature modeling error.	
THD_ISAPI_0x60000075	Face picture analysis modeling error.	
THD_ISAPI_0x60000082	Pupil distance parameter error (the min. value is	

Error Code	Error Description	Debug Suggestion
	larger than the max. value, or the configured max. value is smaller than the min value).	
THD_ISAPI_0x60000083	Duplicate alarm linkage name.	
THD_ISAPI_0x60006000	Overlapped time periods.	
THD_ISAPI_0x60006001	Overlapped holiday schedules.	
THD_ISAPI_0x60006002	Card No. is not sorted in order.	
THD_ISAPI_0x60006003	Card No. does not exist.	
THD_ISAPI_0x60006004	Incorrect card No.	
THD_ISAPI_0x60006008	No more cards are allowed.	
THD_ISAPI_0x60006009	Downloading holiday group failed.	
THD_ISAPI_0x60006014	Multiple cards for a single person is not supported.	
THD_ISAPI_0x60006015	Face picture to be deleted does not exist.	
THD_ISAPI_0x60006019	Incorrect finger No.	
THD_ISAPI_0x6000601a	Incorrect fingerprint type.	
THD_ISAPI_0x6000601b	Fingerprint is not linked with employee No. or card No. (the employee No. or card No. field is empty).	
THD_ISAPI_0x6000601c	Fingerprint already exists.	
THD_ISAPI_0x6000601d	Fingerprint module does not require configuration.	
THD_ISAPI_0x6000601e	Card reader does not support deleting fingerprint by pressing fingerprint ID.	

Error Code	Error Description	Debug Suggestion
THD_ISAPI_0x6000601f	Employee No. does not exist.	
THD_ISAPI_0x60006020	Employee No. already exists.	
THD_ISAPI_0x60006033	Card No. already exists.	
THD_ISAPI_0x60006034	The length of fingerprint data is 0.	
THD_ISAPI_0x60006035	Incorrect card reader No.	
THD_ISAPI_0x60006036	Incorrect employee No.	
THD_ISAPI_0x60006039	Admin password not configured yet (for prompting on configurating activation code on device).	
THD_ISAPI_0x6000603a	Picture does not exist.	
THD_ISAPI_0x6000603b	Ocular distance too narrow.	
THD_ISAPI_0x6000603c	Face picture data less than 1 KB.	
THD_ISAPI_0x6000603d	Picture information verification failed.	
THD_ISAPI_0x6000603e	Face rating failed.	
THD_ISAPI_0x6000603f	Converting QR code picture failed.	
THD_ISAPI_0x60006040	Number of fingerprints reached limit.	
THD_ISAPI_0x60007000	Number of persons reached limit.	

openAPI Errors

Error Code	Error Description	Debug Suggestion
OPEN000000	System internal errors.	/
OPEN000001	The AK does not exist.	Check if the AK is correct.

Error Code	Error Description	Debug Suggestion
OPEN000002	Incorrect SK.	Check if the SK is correct.
OPEN000003	The user does not exists.	Check if the user exists.
OPEN000004	The system does not exist.	Check if the system exists.
OPEN000005	Linking the HCC account with the AK and SK failed.	Check the parameters or try again later.
OPEN000006	Token expired.	Please try again later.
OPEN000007	Token exception.	Check if the token is correct.
OPEN000008	Parameter conversion exception.	Check the parameters.
OPEN000009	Network exception.	Please try again later.
OPEN000010	Parameter verification exception.	Check the parameters.
OPEN000011	The requested resources are not available yet.	Check if the requested resources are available.
OPEN000012	The message submission ID (batchId) does not exist.	Check the submission ID or try again later.
OPEN000013	The alarm offset AK does not exist.	Check the alarm offset AK or try again later.
OPEN000014	Incorrect format of alarm picture URL.	Check the format of alarm picture URL or try again later.
OPEN000015	Alarm message conversion failed.	Please try again later.
OPEN000016	The alarm information is not subscribed.	Check if the alarm information is subscribed.
OPEN000017	Adding resource failed.	Adding resource failed.
OPEN000018	Hik-Connect server error.	Hik-Connect server error.
OPEN000019	Hik-Connect server response error.	Hik-Connect server response error.
OPEN000020	Saving file failed.	Saving file failed.
OPEN000021	No permission for viewing the resource	No permission for viewing the resource

Error Code	Error Description	Debug Suggestion
OPEN000022	No permission for managing the source.	No permission for managing the source.
OPEN000023	Reading Dynamo failed.	Reading Dynamo failed.
OPEN000024	Number of resources for request exceeded limit.	Reduce the number of resources for request.
OPEN000025	Number of records on each page exceeded limit.	The number of records on each page should be from 1 to 500.
OPEN000026	Incorrect time format.	The time should be represented by "yyyy-MM-ddTHH:mm:ss".
OPEN000027	The time range set for search exceeded limit.	The time range for search should be no more than a day.
OPEN000028	Area ID is empty.	Enter an area ID.
OPEN000029	Incorrect request volume.	Check the parameter description.
OPEN000030	Start time of search is later than end time of search.	Set the start time of search earlier than the end time of search.
OPEN000031	Area does not exist.	Check if **areaID** is correct.
OPEN000501	Device does not exist.	Check if the input parameter is correct.
OPEN000502	Cloud storage configuration information not found.	Check if cloud storage is configured.
OPEN000503	Camera resource does not exist.	Check if the input resource request parameter is correct.
OPEN000504	Adding area failed.	Check the parameter according to error information.
OPEN000505	Adding resource failed.	Check the parameter according to error information.
OPEN000510	Area already exists.	Edit area name.
OPEN000511	Resource already exists.	Do not add the same resource twice.

Error Code	Error Description	Debug Suggestion
OPEN000550	No response to request.	Check if the device supports this function.
OPEN000552	Error returned from request.	Troubleshoot according to error information.
OPEN000554	Device offline.	Check the device status.
OPEN000555	Device response timed out.	Check if the device supports this function.
OPEN000556	Device capturing failed.	Check the device status and if the device supports this function.
OPEN000601	Adding device failed.	Check the error message.
OPEN010001	Adding driver failed.	Check the parameters.
OPEN010002	Editing driver failed.	Check the parameters.
OPEN010003	Batch searching for driver information failed.	Check the parameters.
OPEN010004	Adding driver group failed.	Check the parameters.
OPEN010005	Editing driver group failed.	Check the parameters.
OPEN010006	Batch searching for driver group information failed.	Check the parameters.
OPEN010007	Applying driver's face picture failed.	Check the parameters.

See Far, Go Further

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