Hik-Connect for Teams (HikCentral Connect) OpenAPI

Developer Guide

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Chapter 1 Overview

1.1 Introduction

HikCentral Connect (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.
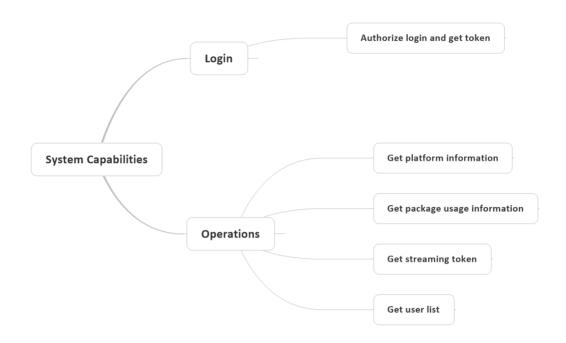
Figure 1-1 System Capabilities

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*** .
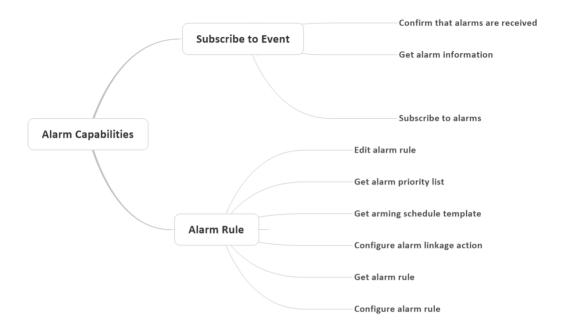
Figure 1-2 Alarm Capabilities

ⓘ**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.
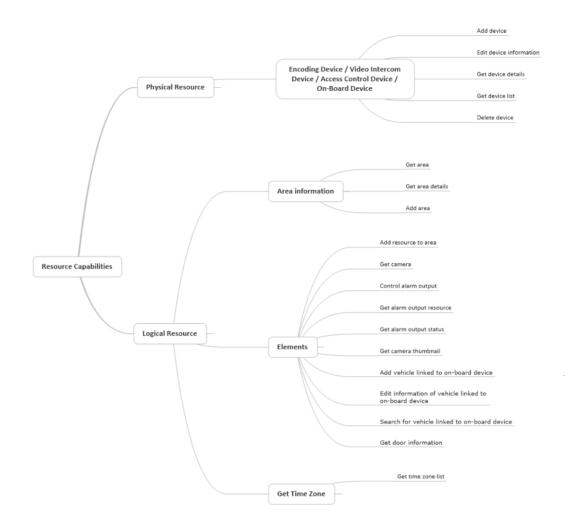
Figure 1-3 Resource Capabilities

1.2.4 Video Capabilities

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

Figure 1-4 Video Capabilities

> **ℹ️ 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.

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.
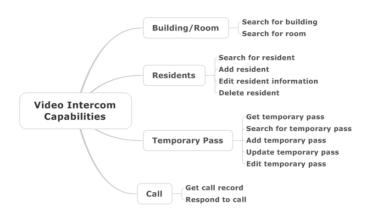
Figure 1-7 Video Intercom Capabilities

1.2.8 Access Control Capabilities

Access control capabilities are about services including opening door remotely and getting Bluetooth encryption information.

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

ⓘ**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.

1.3 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.
HikCentral Connect	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

Term	Description
	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 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*** .
    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 HikCentral Connect 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 HikCentral Connect 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 HikCentral Connect. • **port**: the port No. for accessing HikCentral Connect. • **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.
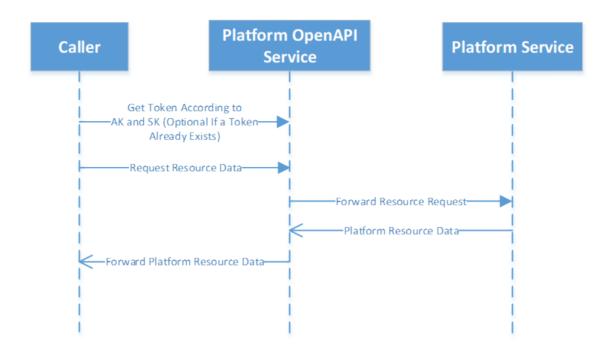
Figure 4-1 Sequence Diagram of Getting Resource Information

☐**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.
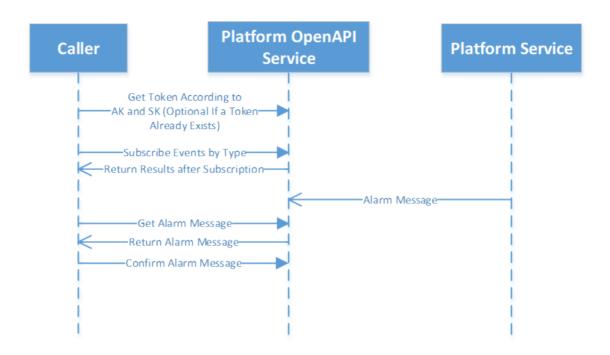
Figure 4-2 Sequence Diagram of Subscribing to Alarms and Getting Alarms

⌈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
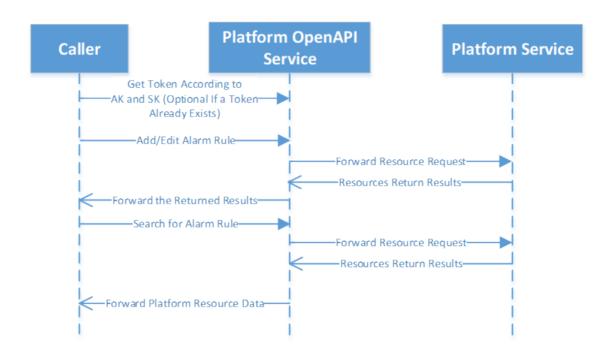
Figure 4-3 Sequence Diagram of Configuring Alarm Rules

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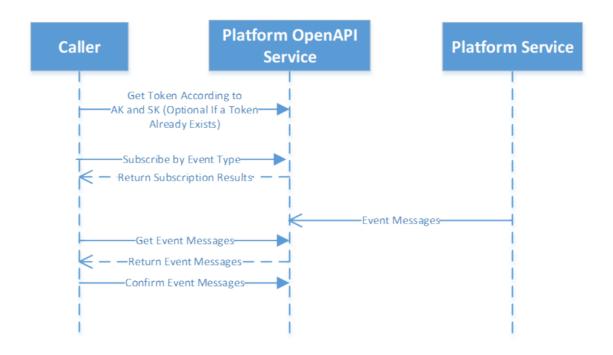
Figure 4-4 Sequence Diagram of Subscribing to and Getting Messages

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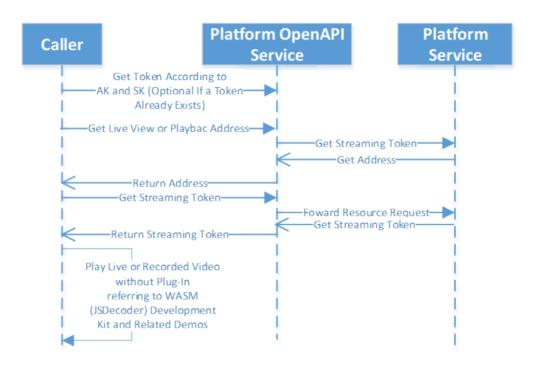
Figure 4-5 Sequence Diagram of Starting Live View / Playback Without Plug-in

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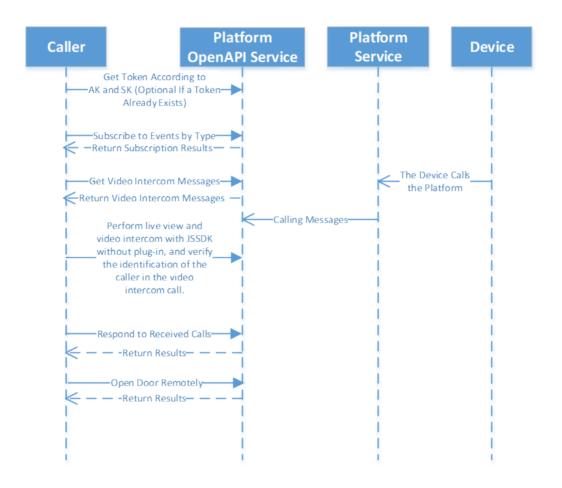
Figure 4-6 Sequence Diagram of Receiving Video Intercom Events

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 HikCentral Connect 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
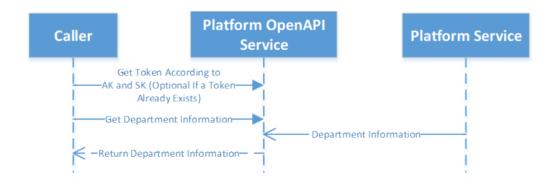
Figure 4-7 Sequence Diagram of Getting Department List

HikCentral Connect OpenAPI supports getting department list.

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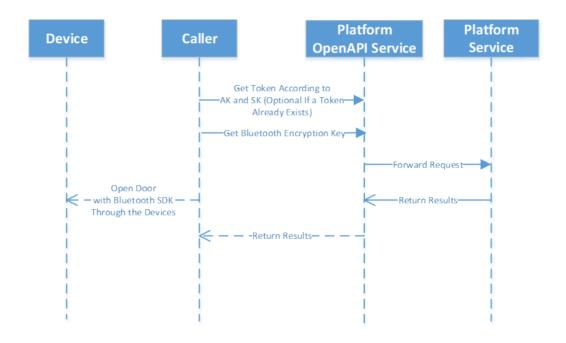
Figure 4-8 Sequence Diagram of Opening Door via Bluetooth

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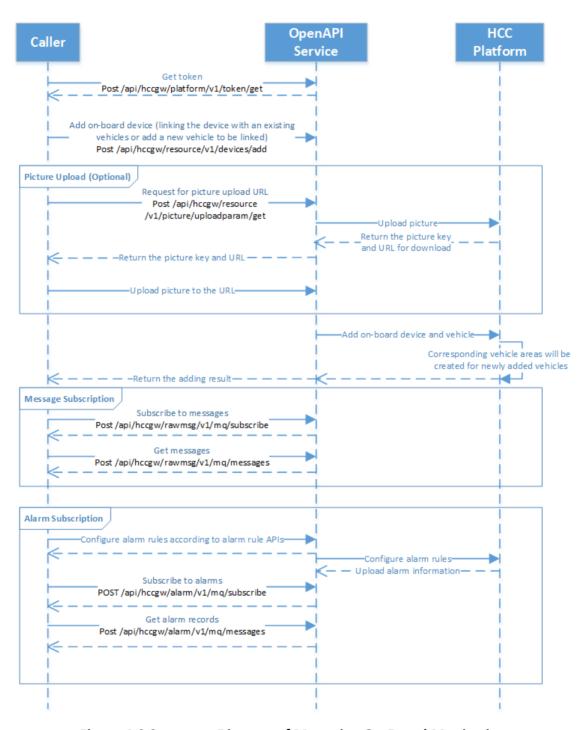
Figure 4-9 Sequence Diagram of Managing On-Board Monitoring

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.

ℹ️**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_** .

ℹ️**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.

Chapter 5 API Reference

ⓘNote

This manual lists all the available APIs provided by HikCentral Connect. 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 HikCentral Connect 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 HikCentral Connect 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 HikCentral Connect 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

```json
{
  "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
addDeviceResponse	Opt.	***AddDeviceResponse***	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 encypted: 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",
```

```json
          "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.
alarmOutputOperation	Req.	Object[]	Body	Alarm output status.

Table 5-23 filter Object Description

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
alarmOutputID	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
alarmOutputOper ation	/	***AlarmOutputOper ation*** []	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.
alarmOutputID	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 HikCentral Connect 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":"5a32fddc6f5c01e067f7abdfe5348a6c98f64d1fe196b9d54c45b01b50a3a7b5946dbcd91f0a6eca6ec6cddf45
11a78f"
}
```

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 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 5-31 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 5-32 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 5-33 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":{

  }
}
```

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 5-34 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 5-35 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.

Parameter Name	Req. or Opt.	Data Type	Parameter Type	Description
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). 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 5-36 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 5-37 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

```
{
  "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 5-38 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.
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 5-39 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). 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 5-40 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"
}
```

5.3.3 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 5-41 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 5-42 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description
batchId	Req.	String	Message queue batch processing ID.
event	/	**_Event_** []	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 5-43 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).
code	Opt.	String	Body	Password for device recording encryption. The maximum length is 16.
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

```
{
  "type":"1",
  "code":"1111qqqq",
  "deviceSerial":"G99131454",
  "resourceId":"b2f3f6ce0a954045ba77a6acfe8dd89e"
}
```

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 5-44 data Object Description

Parameter Name	Req. or Opt.	Data Type	Description	
id	Req.	String	ID.	
url	Req.	String	URL.	

Response Example

```
{
"data": {
"id": "1",
   "url": "ezopen://hcc12345@open.ezviz.com/G99131454/1.live"
},
"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 5-45 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). 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
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"
}
```

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 5-47 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

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)
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": ""
},
"allds": [
  ""
],
"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.
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
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

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

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 5-49 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).

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.

<div align="center">

Table 5-50 data Object Description

</div>

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

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 255.
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.
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": "",
"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.
data	Req.	Object	Data returned by the successful request. See details in the data Object Description below.

Table 5-51 data Object Description

Parameter	Req. or Opt.	Data Type	Description
id	Req.	String	Temporary pass ID.
openCount	Req.	Integer	Times of opening door.
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 255.
startTime	Req.	String	Body	Start time of validity period (in ISO 8601 format). Refer to ***ISO***

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				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": "",
 "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.

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), 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 Open Doors Remotely

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": 0,
"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 5-52 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 System Bluetooth Encryption Key

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 5-53 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"
}
```

5.8 Person-Related Services

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

Get department list.

Request URL

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.
groupIdList	Opt.	Array[String]	Body	Department ID list. Used for getting department information.

Request Example

```
{
   "parentGroupId": "",
   "groupName": "",
   "depthTraversal": "",
   "groupIdList": ""
}
```

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 5-54 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": ""
```

```
    }
  ]
}
}
```

5.9 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.
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 5-55 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 5-56 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 5-57 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

```json
{
  "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.

<div align="center">

Table 5-58 data Object Description

</div>

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"
}
```

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
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
10610	Queuing Time Alarm

Event Code	Description
10611	Number of Queuing People Detection
10621	Abnormal Number of People
10630	Police Absence
10635	Not Wearing Mask
10636	Distance Measurement Alarm
20000	Triggered by Alarm Input
100105	People Density
100657	Leaving Queue Detection

Alarm Detection

Event Code	Description
20000	Triggered by Alarm Input
20008	Restore Alarm Input
70001	Disarm
70002	Arming
70003	Instant Arming
70004	Stay Arming
70006	Alarm Clearing
100302	Bypass
100303	Bypass Restored
100304	Tamper
100305	Device Tampering Restored

Maintenance

Event Code	Description
10000	Video Loss
10056	Camera Online
10057	Camera Offline

Event Code	Description
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
70211	Telephone Line Disconnected
70212	Bus Expander Disconnected
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
70308	RF Exception
70309	Cellular Network Data Exceeded

Event Code	Description
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
50102	HDD Full
50103	Read/Write Hard Disk Error
50104	Standard Mismatched
50110	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
11012	Sharp Turn
11013	Sudden Brake

Event Code	Description
11014	Sudden Acceleration
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
100396	Video Tampering
100398	Entering Route

A.1.5 Alarm Source

Enumeration	Description
alarmInput	Alarm Input
camera	Camera
encodingDevice	Encoding Device
alarmDevice	Alarm Device
user	User
subSystem	Partition (Area)

Enumeration	Description
vehicle	Vehicle Linked to On-Board Device
mobileDevice	On-Board Device

A.1.6 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
Msg330501	Smoking

Enumeration Value	Description
Msg330502	Using Mobile Phone
Msg330503	Fatigue Driving
Msg330504	Distraction
Msg330505	Seatbelt Unbuckled
Msg330506	Video Tampering
Msg330507	Yawning
Msg330508	Wearing IR Interrupted Sunglasses
Msg330509	Absence

A.1.7 Capability Set

Value	Description
2000	Video Loss
2001	Video Tampering Detection
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

Value	Description
2029	Unattended Baggage Detection
2030	Object Removal Detection

A.2 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.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 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

Parameter Name	Req. or Opt.	Data Type	Description
			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.3.3 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.3.4 AlarmDeviceInfo

The table here shows the alarm device information.

Parameter Name	Data Type	Description
devID	Integer	Device ID.
devName	String	Device name.
devCategory	String	Device type.

A.3.5 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.3.6 AlarmFile

The table here shows the details about an alarm file .

Parameter Name	Data Type	Description
type	String	File format: 1-picture, 2-video.
URL	String	URL of an alarm file (valid for 15 minutes).
saveState	String	Saving status of an alarm file: 0-saving succeeded, 1-to be uploaded, 2-saving in process, 3-saving failed, 4-capturing in process, 5-capturing failed.
generationMode	String	Generation mode of an alarm file: "1" (upload alarms), "2" (capture picture by event linkage).
encrypted	String	Encryption status of an alarm file: "0" (unencrypted), "1" (encrypted).
extendInfo	*AlarmFileExtendInfo*	Extended information of an alarm file.

A.3.7 AlarmFileExtendInfo

The table here shows the extended information of an alarm file.

Parameter Name	Data Type	Description
sourceID	String	Source ID of an alarm file.
sourceName	String	Source name of an alarm file.
sourceType	String	Source type of an alarm file.
captureIndex	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.3.8 AlarmFileInfo

The table here shows the alarm file information.

Parameter Name	Data Type	Description
fileContent	String	File content: "1"-picture included, "2"-video included, "1,2"-both included.
file	***AlarmFile*** []	Alarm file.

A.3.9 AlarmInfo

The table here shows the alarm information.

Parameter Name	Data Type	Description
id	String	Camera ID.
name	String	Camera name.
online	String	Online status.
area	***Area***	Area information.
device	***DeviceByResource***	Device information.

A.3.10 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.3.11 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.3.12 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.3.13 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.

Parameter Name	Data Type	Description
linkageType	String	Linkage type.
errorCode	String	Error code.

A.3.14 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.
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.

Parameter Name	Data Type	Description
linkageConfig	*AlarmLinkageConfig*	Linkage configuration.
vehicleRelatedInfo	*VehicleRelatedInfo*	Linked vehicle information.
queueRelatedInfo	*QueueRelatedInfo*	Queuing-alarm related information.

A.3.15 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.3.16 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.3.17 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.3.18 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.3.19 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.3.20 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.
areaID	Opt.	String	Area ID, which consists of up to 32 characters.
areaName	Opt.	String	Area name, which consists of up to 32 characters.

A.3.21 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.3.22 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.3.23 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.3.24 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.3.25 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.3.26 AreaBrief

The table here shows the area information.

Parameter Name	Data Type	Description
areaId	String	Area ID.

A.3.27 Attachment

The table here shows the attachment information.

Parameter Name	Data Type	Description
url	String	Attachment (pictures/videos) URL (valid for 15 minutes).

A.3.28 BasicInfo

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.3.29 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.3.30 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.3.31 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.3.32 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.3.33 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.3.34 ChannelInfo

The table here shows the channel information.

Parameter Name	Data Type	Description
id	String	Channel ID.
no	String	Channel No.

A.3.35 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.3.36 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.3.37 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.3.38 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.

A.3.39 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.3.40 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.
availableAlarmInputChannelNum	Opt.	Integer	Number of available alarm input channels.
availableAlarmOutputChannelNum	Opt.	Integer	Number of available alarm output channels.

A.3.41 DeviceBrief

The table here shows the device information.

Parameter Name	Data Type	Description
id	String	Device ID.
name	String	Device name.
category	Object	Device category.
device	Object	Device information.

A.3.42 DeviceByResource

The table here shows the information about the device.

Parameter Name	Data Type	Description
devInfo	***DevInfo***	Device details. .
channelInfo	***ChannelInfo***	Channel details.

A.3.43 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.
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.3.44 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.3.45 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.3.46 DeviceTalkInfo

The table here shows the video intercom event details.

Parameter Name	Req. or Opt.	Data Type	Description
userId	Req.	String	User ID (resident that is called by the video intercom device).
deviceSerial	Opt.	String	Device serial No.
deviceName	Opt.	String	Device name.
deviceId	Opt.	String	Device ID.
msgId	Opt.	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). When the value is not 0, only **msgId**, **userId**, and **msgType** are returned.
doorInfos	Opt.	*DoorInfo* []	Door information.

A.3.47 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.3.48 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.3.49 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.3.50 Event

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*	Basic information.
picture	Opt.	*Attachment* []	Picture information.
video	Opt.	*Attachment* []	Video information.
data	Opt.	*DataBean*	Extended information.

A.3.51 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.3.52 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.3.53 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.3.54 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.

Parameter Name	Req. or Opt.	Data Type	Description
pageSize	Opt.	Integer	Number of items per page.
device	Opt.	*Device* []	Information of device list.

A.3.55 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.3.56 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.3.57 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.3.58 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.3.59 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.

Parameter Name	Req. or Opt.	Data Type	Description
relateType	Req.	Integer	Linked alarm type: 1 (link to the corresponding camera), 2 (link to another camera); this node consists of up to 16 characters.
selfRelated	Opt.	*SelfRelated*	Related storage information.

A.3.60 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.3.61 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.3.62 LinkAlarmOutput

The table here shows the linked alarm output.

Parameter Name	Data Type	Description
alarmOutput	***AlarmResourceInfo*** []	Alarm resource information.

A.3.63 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.3.64 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.3.65 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.3.66 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.3.67 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.3.68 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.3.69 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.3.70 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.3.71 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.3.72 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.3.73 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.

Parameter Name	Req. or Opt.	Data Type	Description
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.3.74 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).
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.3.75 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.3.76 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.3.77 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.3.78 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.3.79 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.3.80 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.3.81 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.3.82 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.3.83 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.

Parameter Name	Data Type	Description
areaID	String	Area ID.
areaName	String	Area name.

A.3.84 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).
channelID	String	Device channel ID.
errorCode	String	Error code: "0" (succeeded), other codes (failed). See details in ***Status and Error Code*** .

A.3.85 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

Parameter Name	Req. or Opt.	Data Type	Description
			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 optional for adding/ updating residents.
accountType	Req.	Integer	Resident type: 1 (householder), 0 (family member).

A.3.86 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.3.87 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.3.88 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.3.89 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.3.90 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.3.91 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.3.92 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).
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.3.93 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.

Parameter Name	Req. or Opt.	Data Type	Description
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.3.94 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.3.95 TempAuthSearchRequest

The table here shows the temporary pass search conditions.

Parameter Name	Req. or Opt.	Data Type	Description
filter	Opt.	*TempAuthFilter*	Search conditions.

A.3.96 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.3.97 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.3.98 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.3.99 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.3.100 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.3.101 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.3.102 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.3.103 User

The table here shows the user information.

Parameter Name	Data Type	Description
ID	String	User ID.
name	String	User name.

A.3.104 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.3.105 VehicleInfo(2)

The table here shows the vehicle information.

Parameter Name	Req. or Opt.	Data Type	Description
licensePlateNo	Req.	String	License plate No.
driverName	Opt.	String	Driver's name.
driverPhone	Opt.	String	Driver's phone No.
id	Req.	String	Vehicle ID.
speedLimit	Req.	Integer	Speed limit (cm/h).

A.3.106 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.3.107 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
CCF000004	Database operation failed.	Check the database operation.
CCF000005	No permission to operate this resource.	Check your permissions.
CCF021103	Area name already exists.	Modify the area name.
CCF021307	Device does not exist.	Device does not exist.
CCF038052	Email address already exist (remote calling error code).	Email address already exist.
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.

Error Code	Error Description	Debug Suggestion
EVZ20017	The device has been added by yourself.	The device has been added by yourself.
LAP000001	Parameter error.	Check API parameters.
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.

Error Code	Error Description	Debug Suggestion
VMS021102	The area already exists.	Check if the area already exists.
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.
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.
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 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.

Error Code	Error Description	Debug Suggestion
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.

openAPI Errors

Error Code	Error Description	Debug Suggestion
OPEN000000	System internal errors.	/
OPEN000001	The AK does not exist.	Check if the AK is correct.
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.

Error Code	Error Description	Debug Suggestion
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
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.

Error Code	Error Description	Debug Suggestion
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.
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.

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