



HikCentral Professional OpenAPI V3.0.1

Developer Guide

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Chapter 1 Overview

1.1 Introduction

VMSPlatform is a platform that provides the open capabilities and APIs for the third-party manufacturers or developers to fast integrate different applications.

1.2 Target Reader

This developer guide is designated for third-party manufacturers and developers for application and development based on the capabilities provided by the platform.

It is recommended for the target readers to acquire the following skills to fully comprehend the document:

1. Good computer programming ability, mastering one or more common programming languages like Java or C++.
2. Certain knowledge of security industry, understanding terminologies like camera, PTZ control, alarm, etc.

1.3 Reading Guide

To learn about the API functions provided by the platform and get started quickly, it is recommended to read the rest of this document in the following order.

1. Read **Terms and Definitions** for elementary knowledge of the terms appearing in this document.
2. Read **Open Capabilities** for elementary knowledge of the capabilities provided by the platform.
3. Read **Typical Applications** according to service requirements. Via the introduction of several typical applications, get to know the capabilities provided and application effect realized by the platform, and evaluate the API functions required by service needs for development.
4. Read **Protocol Summary** for the calling method of APIs.
5. Read **API Reference** and search for APIs by category. Read the description of each API for the specific function, and use the appropriate one accordingly.
6. Complete application development according to the API definitions.

1.4 Project Coordination Guide

Platform Preparation

The platform should be deployed for the project first. Make sure the platform service functions are working properly for providing capabilities for external use.

This developer guide listed all APIs provided. The available APIs vary by the specific platform deployed for each project. The developer can check the list of available APIs for the platform in the actual developing environment (the OpenAPI gateway page: <https://ip:port/artemis-web>).



The API capability is determined by the coordination of the platform and front end / back end devices. Therefore, the platform deployed for the project may not acquire all API functions.

Calling and Acquiring of Parameters

1. Get the IP address and port No. of the platform server for the project.
2. Get the AppKey and AppSecret (required for calling and authenticating) offline from the platform technical support. The 2 character strings should be kept carefully; once they are disclosed, immediately apply to the technical support for resetting the AppKey to get a new AppSecret.

1.5 System Requirements

Operating System: Microsoft® Windows 7 SP1/8.1/10 (64-bit)



The system requirements of Open Platform is same as that of VMSPlatform.

1.6 Open Capabilities

The open capabilities of VMSPlatform for application integration include resource management, video application (streaming, PTZ control, intelligent recognition, etc.), intelligent analysis capability, event and alarm (face picture comparison event, abnormal temperature alarm, no mask alarm, etc.), access control application (permission management, access control, etc), visitor application (visitor reservation and check-in/check-out), ANPR application, vehicle and parking management (parking lot management, parking fee charging, and vehicle entry/exit), on-board monitoring application, and digital signage application.

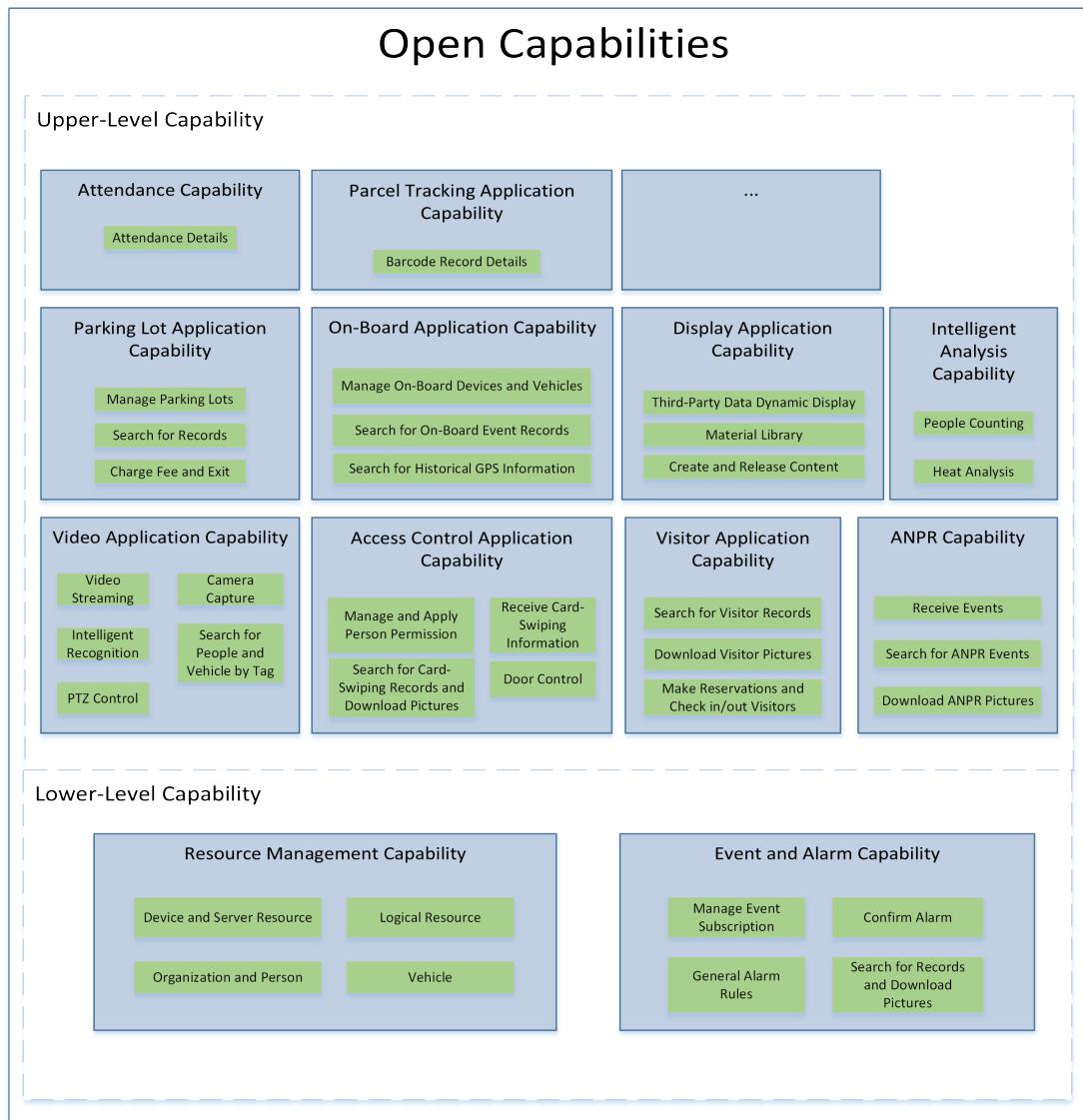


Figure 1-1 Open Capabilities Directory

1.7 Terms and Definitions

Term	Description
OpenAPI	The publicly available application programming interface that provides developers with programmatic access to a proprietary software application or web service.
VMSPlatform	A platform for security video management.

Term	Description
HTTP method	A set of request methods defined by HTTP to indicate the desired action to be performed for a given resource. The useful methods include GET (get resources), PUT (set or update resources), POST (add or search resources), and DELETE (delete resources).
header	The supplemental data at the beginning of a data block. For example, "Accept:text/plain".
URL	Uniform Resource Locator, which is colloquially termed a web address, and is a reference to a web resource that specifies its location on a computer network and a mechanism for retrieving it.
query	A precise request for information retrieval with database and information systems.
appKey\appSecret	A pair of appKey or appSecret is used to mark the caller, and the appSecret is as a key for signature calculation.
AK	Access Key, which relates with the private access key. They are used in pair to encrypt the signature in the request.
SK	Secret Access Key, which is used to mark the sender and prevent the request from being modified during signature encryption.
SMS	Stream Media Server, which supports RTSP and is used to forward stream to up to 200 channels. It is also like a security gateway in multi-channel scene.
RTSP	Real Time Streaming Protocol, which is a network control protocol designed for use in entertainment and communications systems to control streaming media servers. The protocol is used for establishing and controlling media sessions between end points. Clients of media servers issue VHS-style commands, such as play, record and pause, to facilitate real-time control of the media streaming from the server to a client (Video On Demand) or from a client to the server (Voice Recording).
RTP	Real-time Transport Protocol, which is a network protocol for delivering audio and video over IP networks.

1.8 Update History

1.8.1 Update History in Version 3.X.X

Summary of Changes in Version 3.0.1_August, 2025

1. Added APIs in ***Access Control API*** :
 - Add access levels: [***POST /artemis/api/acs/v1/privilege/group/add***](#) ;
 - Edit access levels: [***POST /artemis/api/acs/v1/privilege/group/update***](#) ;
 - Delete access levels: [***POST /artemis/api/acs/v1/privilege/group/delete***](#) ;
 - Get the access schedule template information of the platform: [***POST /artemis/api/acs/v1/schedule/accessSchedule/get***](#) .
2. Extended the access records search API ([***POST /artemis/api/acs/v1/door/events***](#)): added input parameters **personId** (person ID) and **personCode** (person code).
3. Added one API for getting the double authentication configuration of person/department deletion: [***POST /artemis/api/resource/v1/person/deleteconfig/get***](#) .
4. Renamed the "Parcel Tracking" application to "Video Tracing".
5. Added APIs in ***Video Tracing API*** :
 - Get the information about third-party check points: [***POST /artemis/api/goodsmanager/v1/GetCheckPointInfo***](#) ;
 - Batch import barcode scanning records to the platform: [***POST /artemis/api/goodsmanager/v1/ImportPackageRecord***](#) .
6. Extended the organization deletion API [***POST /artemis/api/resource/v1/org/single/delete***](#) : added one input parameter **adminPassword** (admin password); added one output parameter **remainLockNumber** (number of remaining attempts).
7. Extended the person deletion API [***POST /artemis/api/resource/v1/person/single/delete***](#) : added two input parameters **adminPassword** (admin password) and **personCode** (person code); added one output parameter **remainLockNumber** (number of remaining attempts).
8. Extended the APIs for getting profile picture data ([***POST /artemis/api/resource/v1/person/picture_data***](#)), editing face picture ([***POST /artemis/api/resource/v1/person/face/update***](#)), editing fingerprint ([***POST /artemis/api/resource/v1/person/fingerPrints/update***](#)), and editing person's custom information ([***POST /artemis/api/resource/v1/person/personId/customFieldsUpdate***](#)):
added one input parameter **personCode** (person code).
9. Extended the API for getting the dynamic QR code of persons ([***POST /artemis/api/resource/v1/person/dynamicqrcode/get***](#)):
added one input parameter **qrType** (type of returned data).
10. Extended card swiping events in ***Event Types or Alarm Categories*** :
110025 (Access Granted via QR Code), 110569 (Authentication via QR Code Failed), 110022 (Access Granted via Bluetooth), 110564 (Authentication via Bluetooth Failed), 110026 (Access

Granted by Palm Print or Palm Vein), 110571 (Access Denied by Palm Print or Palm Vein),
110572 (Anti-Spoofing Detection of Palm Print or Palm Vein Failed).

11. Fixed some bugs in typical applications, APIs, etc.

Summary of Changes in Version 3.0.0_Feb., 2025

1. Optimized the Open Platform configuration on the Web Client: [**Enable Open Platform**](#) .
2. Added 4 APIs in [**Manage Persons**](#) :
Get person's QR code configuration: [**POST /artemis/api/resource/v1/person/qrcodeconfig/get**](#) ;
Set person's QR code configuration: [**POST /artemis/api/resource/v1/person/qrcodeconfig/update**](#) ;
Get person's static QR code: [**POST /artemis/api/resource/v1/person/staticqrcode/get**](#) ;
Get person's dynamic QR code: [**POST /artemis/api/resource/v1/person/dynamicqrcode/get**](#) .
3. Updated the APIs of updating data source ([**POST /artemis/api/focsign/v2/material/dataSource/update**](#)) and batch updating data sources ([**POST /artemis/api/focsign/v2/material/dataSource/update/batch**](#)) to V2.
4. Added 3 APIs in [**Visitor API**](#) :
Get the basic configuration information of visitor service: [**POST /artemis/api/visitor/v1/baseConfig/get**](#) ;
Edit the basic configuration information of visitor service: [**POST /artemis/api/visitor/v1/baseConfig/update**](#) ;
Get the visitor QR code: [**POST /artemis/api/visitor/v1/visitor/qr/get**](#) .
5. Fixed some bugs in typical applications, APIs, etc.

1.8.2 Update History in Version 2.X.X

Summary of Changes in Version 2.6.1_Jul., 2024

Fixed some bugs in typical applications, APIs, etc.

Summary of Changes in Version 2.6_Apr., 2024

1. Adds [**Target Reader**](#) , [**Reading Guide**](#) , and [**Project Coordination Guide**](#) for the overview of this developer guide.
2. - For the typical application of [**Resource Management**](#) :
isolates [**Manage Organizations**](#) from [**Manage Persons**](#) .
 - Updates physical and logical resource APIs:
 - updates [**POST /artemis/api/resource/v1/encodeDevice/encodeDeviceList**](#) ;
 - updates [**POST /artemis/api/resource/v1/encodeDevice/indexCode/encodeDeviceInfo**](#) ;
 - updates [**POST /artemis/api/resource/v1/encodeDevice/advance/encodeDeviceList**](#) ;
 - adds [**POST /artemis/api/dataStatics/v1/cameras/mobileDataTraffic**](#) ;
 - adds [**POST /artemis/api/dataStatics/v1/cameras/batteryCapacity**](#) .
 - updates [**POST /artemis/api/resource/v1/person/advance/personList**](#) ;
 - updates [**POST /artemis/api/acs/v1/faceCheck**](#) .

3. For the typical application of **Event and Alarm** :

- extends **Programming Guide** ;
- updates **POST /artemis/api/eventService/v1/eventRecords/page** ;
- updates **POST /artemis/api/eventService/v1/generalEventRule/single/add** ;
- updates **POST /artemis/api/eventService/v1/generalEventRule/single/update** .

4. For the typical application of **Video Application** :

- adds **Integration Scenario** and **Integration Process** ;
- updates **POST /artemis/api/video/v1/cameras/playbackURLs** ;
- updates **POST /artemis/api/video/v1/device/talkURLs** ;
- updates **POST /artemis/api/body/v1/application/pictureRecognition** ;
- updates **POST /artemis/api/frs/v1/application/pictureRecognitionModel** ;
- adds **POST /artemis/api/video/v1/intelligentRecognition/tasks** ;
- adds **POST /artemis/api/frs/v1/application/oneToOne** ;
- adds **POST /artemis/api/frs/v1/application/oneToMany** .

5. For the typical application of **Access Control** :

- adds **Integration Scenario** and **Integration Process** , and updates the **Programming Guide** and **Manage Access Levels** ;
- updates **POST /artemis/api/acs/v1/door/events** .

6. For the typical application of **Visitor Management** :

- adds **Integration Scenario** and **Integration Process** , and updates **Make a Reservation for Visitor** , **Check In Visitor** , and **Search for Visit Record** ;
- updates **POST /artemis/api/visitor/v1/appointment** ;
- updates **POST /artemis/api/visitor/v1/appointment/update** ;
- updates **POST /artemis/api/visitor/v1/registerment** ;
- updates **POST /artemis/api/visitor/v1/registerment/update** ;
- updates **POST /artemis/api/visitor/v2/appointment** ;
- updates **POST /artemis/api/visitor/v2/appointment/update** ;
- updates **POST /artemis/api/visitor/v1/appointment/appointmentlist** ;
- adds **POST /artemis/api/visitor/v1/appointment/getVisitorStatus** ;
- adds **POST /artemis/api/visitor/v1/register/getVistorRegisterRecord** ;
- adds **POST /artemis/api/visitor/v1/visitorApprovalFlow/details** .

7. - For the typical application of **Parking Lot Application** :

- adds **Integration Scenario** and **Integration Process** ;
- For vehicle and parking APIs:
 - updates **POST /artemis/api/pms/v1/crossRecords/page** ;
 - updates **POST /artemis/api/vehicle/v1/parkinglot/passageway/record** ;
 - updates **POST /artemis/api/vehicle/v1/parkingspace/record** ;
 - updates **POST /artemis/api/vehicle/v1/parkingfee/calculate** ;
 - updates **POST /artemis/api/vehicle/v1/parkingfee/confirm** .

8. For the typical application of **On-Board Monitoring** :

- adds **Integration Scenario** and **Integration Process** .

9. - For the typical application of **Commercial Display** (renamed from Digital Signage):

- updates [Update Data Source](#) , and adds [Manage Material Library](#) , [Release Content](#) , and [Control Device](#) .
- For commercial display APIs:
 - adds [POST /artemis/api/focsign/v1/material/search](#) ;
 - adds [POST /artemis/api/focsign/v1/material/thumbnail/get](#) ;
 - adds [POST /artemis/api/focsign/v1/publish/quickPublish](#) ;
 - adds [POST /artemis/api/focsign/v1/publish/releasePlan/cancel](#) ;
 - adds [POST /artemis/api/focsign/v1/publish/single/releasePlanDetail/search](#) ;
 - adds [POST /artemis/api/focsign/v1/terminal/control/search](#) .
 - 10. - For the typical application of [Intelligent Analysis](#) :
adds [Integration Scenario](#) and [Integration Process](#) ;
 - For intelligent analysis APIs:
 - updates [POST /artemis/api/aiapplication/v1/face/faceMatchRecord](#) ;
 - updates [POST /artemis/api/resource/v1/intelligentServer/intelligentServerList](#) .
 - 11. Adds the typical application of [Attendance](#) ;
adds [POST /artemis/api/attendance/v1/report](#) .
 - 12. Adds the typical application of ;
adds .
 - 13. For [Event Types or Alarm Categories](#) :
updates [On-Board Device Alarms](#) .
 - 14. For [Event Message Format](#) :
updates [ANPR Event Message](#) , [License Plate Matched or Mismatched Event Message](#) , [Face Picture Comparison Event Message](#) , [On-Board Monitoring Event Message](#) , and [Dock Event Message](#) .
 - 15. For [Data Dictionary](#) :
updates [Resource Types / Resource Permission Code](#) , and adds [Video Type](#) , [Vehicle Brand](#) , and [Country/Region](#) .

Summary of Changes in Version 2.5.1 _Jan., 2024

1. Extended the typical application [Resource Management](#) :
added an API calling flow of waking up device: [Wake Up Device](#) ;
extended the restrictions and suggestions for solar camera channel with reconnecting mechanism: [Restrictions and Suggestions](#) ;
extended the response message for [POST /artemis/api/resource/v1/encodeDevice/encodeDeviceList](#) ;
extended the response message for [POST /artemis/api/resource/v1/encodeDevice/indexCode/encodeDeviceInfo](#) ;
extended the response message for [POST /artemis/api/resource/v1/encodeDevice/advance/encodeDeviceList](#) ;
added an API for waking up solar device: [POST /artemis/api/resource/v1/device/indexCode/wakeUp](#) ;
extended the response message for [POST /artemis/api/resource/v1/regions/regionIndexCode/cameras](#) ;

extended the response message for [`POST /artemis/api/resource/v1/cameras/indexCode`](#) ;
extended the response message for [`POST /artemis/api/resource/v1/cameras`](#) ;
extended the response message for [`POST /artemis/api/resource/v1/camera/advance/cameraList`](#) ;
added two parameters **isSupportWakeUp** and **wakeUpStatus** for the structure [`CameraInfo`](#) and [`EncodeDevInfo`](#) .

2. Extended ***Restrictions and Suggestions*** in the typical application [**Video Application**](#) :
extended the restrictions and suggestions for recording downloading API;
extended the restrictions and suggestions for recording playback API.
3. Extended ***Restrictions and Suggestions*** in the typical application [**Access Control**](#) :
extended the restrictions and suggestions for access level applying API and access level searching API.
4. Modified the typical application [**Visitor Management**](#) :
added a step (API [`POST /artemis/api/visitor/v1/visitorConfig/automaticApproval`](#) for checking whether auto review of visitor reservation is enabled or not) for [**Make a Reservation for Visitor**](#) and [**Programming Guide**](#) ;
deleted a step (API [`POST /artemis/api/visitor/v1/auth/reapplication`](#) for applying visitor's access level settings to devices) for [**Check In Visitor**](#) and [**Programming Guide**](#) .
5. Added a step for [**Get Real-Time Occupancy of the Parking Spaces**](#) :
added an API for downloading vehicle pictures: [`POST /artemis/api/pms/v1/image`](#) (originally `POST /artemis/api/pms/v1/image_data`).
6. Extended the typical application [**On-Board Monitoring**](#) :
added **Resource Management** and **Video Application** in [**Programming Guide**](#) .
7. Added the description for supporting streaming from cameras on remote sites or not for the following video application APIs:
[`POST /artemis/api/video/v1/cameras/previewURLs`](#) ;
[`POST /artemis/api/video/v2/cameras/previewURLs`](#) ;
[`POST /artemis/api/video/v1/cameras/playbackURLs`](#) ;
[`POST /artemis/api/video/v1/cameras/talkURLs`](#) ;
[`POST /artemis/api/video/v1/device/talkURLs`](#) .
8. Added a restriction for [`POST /artemis/api/video/v1/download`](#) :
the recording to be downloaded should be shorter than one minute.
9. Added ANPR as a supported module for [`POST /artemis/api/eventService/v1/eventSubscriptionByEventTypes`](#) .
10. Extended the following vehicle resource APIs:
extended the request message for [`POST /artemis/api/resource/v1/vehicle/vehicleList`](#) ;
extended the request message for [`POST /artemis/api/resource/v1/vehicle/indexCode/vehicleInfo`](#) ;
extended the request message for [`POST /artemis/api/resource/v1/vehicle/advance/vehicleList`](#) ;
added 2 optional request parameters **plateCategory** and **plateArea**, and extended the request and response message for [`POST /artemis/api/resource/v1/vehicle/single/add`](#) ;

added 2 optional request parameters **plateCategory** and **plateArea**, and extended the request and response message for [**POST /artemis/api/resource/v1/vehicle/single/update**](#) ;
added 3 optional parameters **plateCategory**, **plateArea**, and **plateAreaName** for [**VehicleInfo**](#) .

11. Added a parameter **doorOutState**:

extended the response message for [**POST /artemis/api/resource/v1/acsDoor/region/acsDoorList**](#) ;

extended the response message for [**POST /artemis/api/resource/v1/acsDoor/indexCode/acsDoorInfo**](#) ;

extended the response message for [**POST /artemis/api/resource/v1/acsDoor/acsDoorList**](#) ;

extended the response message for [**POST /artemis/api/resource/v1/acsDoor/advance/acsDoorList**](#) ;

extended the structure [**DoorInfo**](#) .

12. Extended the request message for [**POST /artemis/api/resource/v1/person/single/add**](#) and [**POST /artemis/api/resource/v1/person/single/update**](#) :

added a request parameter **residentRoomNo**.

13. Extended the response message for [**POST /artemis/api/visitor/v2/appointment**](#) :

added an optional request parameter **watchListInfo** (and the corresponding structure [**watchListInfo**](#)).

14. Extended the API description for person search APIs:

[**POST /artemis/api/body/v1/application/pictureRecognition**](#) ;

[**POST /artemis/api/body/v1/application/pictureModel**](#) ;

[**POST /artemis/api/body/v1/application/captureSearch**](#) ;

[**POST /artemis/api/frs/v1/application/pictureRecognitionModel**](#) ;

[**POST /artemis/api/frs/v1/application/captureSearch**](#) .

15. Extended the request message for [**POST /artemis/api/acs/v1/door/doControl**](#) :

added a required request parameter **controlDirection** (door control direction).

16. Added an optional request parameter **appendInfo** (and the corresponding structure [**appendInfo**](#)) and extended the request message for the following APIs:

[**POST /artemis/api/resource/v1/person/personList**](#) ;

[**POST /artemis/api/resource/v1/person/personId/personInfo**](#) ;

[**POST /artemis/api/resource/v1/person/personCode/personInfo**](#) ;

[**POST /artemis/api/resource/v1/person/advance/personList**](#) .

17. Added description of **personId** and **personCode** for the following APIs, structures, and event message:

[**POST /artemis/api/resource/v1/person/personCode/personInfo**](#) ;

[**POST /artemis/api/resource/v1/person/single/add**](#) ;

[**POST /artemis/api/resource/v1/person/single/update**](#) ;

[**PersonInfo**](#) ;

[**FaceMatchRecord**](#) ;

[**Access Control Event Message**](#) .

Summary of Changes in Version 2.5_Oct., 2023

1. Adjusted the structure of the chapters of [**Open Capabilities**](#) and [**Typical Applications**](#) :

Divided the capabilities and applications by service module; added typical applications for more services.

2. Added an API for approving or rejecting submitted visitor reservation: [***POST /artemis/api/visitor/v1/visitorapprovalflow/status***](#).
3. Added an API for downloading pictures and videos from on-board monitoring event search or notification pushing: [***POST /artemis/api/mobilesurveillance/v1/picture_download***](#).
4. Extended the request message for [***POST /artemis/api/visitor/v1/auth/reapplication***](#): added 3 optional parameters **ImmediateDownload**, **personIds**, and **doorIndexCodes**.
5. Extended the request message for [***POST /artemis/api/frs/v1/application/picture***](#): extended the parameter **isHumanSearchPic** and added an optional parameter **encodeDeviceCode**.
6. Extended the request and response message for [***POST /artemis/api/visitor/v1/appointment***](#) and [***POST /artemis/api/visitor/v1/registerment***](#):
Added a required request parameter **watchListInfo** ([***watchListInfo***](#)) and an optional response parameter **qrCodeImage**.
7. Extended the request message for [***POST /artemis/api/visitor/v1/appointment/update***](#) and [***POST /artemis/api/visitor/v1/registerment/update***](#):
Extended the request parameter **visitorInfoList** ([***VisitorInfo***](#)), added an object description **accessInfo** accordingly.
8. Extended the request and response message for [***POST /artemis/api/visitor/v2/appointment***](#):
Added 2 optional request parameter **accessInfo** ([***accessInfo***](#)) and **watchListInfo** ([***watchListInfo***](#)), and an optional response parameter **qrCodeImage**.
9. Extended the request message for [***POST /artemis/api/visitor/v2/appointment/update***](#):
Added an optional request parameter **accessInfo** ([***accessInfo***](#)).
10. Extended the response message for [***POST /artemis/api/visitor/v1/appointment/appointmentlist***](#):
Extended the response parameter **list** ([***VisitorappointInfo***](#)), added an object description **accessInfo** accordingly.
11. For [***POST /artemis/api/video/v1/cameras/playbackURLs***](#):
added more API descriptions;
extended the request message: added 2 optional parameters **mergeSegment** and **storageLocation**;
for the response parameter **data**, extended parameters in [***PlaybackUrlVideoInfo***](#) and [***VideoInfo***](#) accordingly.
12. Extended the request message for [***POST /artemis/api/body/v1/application/pictureRecognition***](#), [***POST /artemis/api/body/v1/application/pictureModel***](#), [***POST /artemis/api/body/v1/application/captureSearch***](#), [***POST /artemis/api/frs/v1/application/pictureRecognitionModel***](#), and [***POST /artemis/api/frs/v1/application/captureSearch***](#):
added a required parameter **protocolType** and an optional parameter **encodeDeviceIndexCode**.

Summary of Changes in Version 2.4.1_Mar., 2023

1. Corrected the values of the request parameter **bRecordSetting** for:

[POST /artemis/api/resource/v1/camera/advance/cameraList](#) ;
[POST /artemis/api/resource/v1/cameras](#) ;
[POST /artemis/api/resource/v1/regions/regionIndexCode/cameras](#) .

2. Corrected the values of the request parameter **type** for:

[POST /artemis/api/acs/v1/auth/applicationResult](#) .

Summary of Changes in Version 2.4_Jan., 2023

1. Changed "mobile monitoring" and "mobile device" to "on-board monitoring" and "on-board device".
2. Added APIs for getting the video and audio stream:
Download recordings by obtained playback URL and returned information: [POST /artemis/api/video/v1/download](#) ;
Get the download progress and download URL: [POST /artemis/api/video/v1/downloadURL](#) .
3. Added APIs for searching for person:
Detect and model faces in the picture: [POST /artemis/api/frs/v1/application/pictureRecognitionModel](#) ;
Get matched faces by face picture comparison: [POST /artemis/api/frs/v1/application/captureSearch](#) ;
Detect human body and get the human body coordinates: [POST /artemis/api/body/v1/application/pictureRecognition](#) ;
Get the human body modeling data according to the coordinates: [POST /artemis/api/body/v1/application/pictureModel](#) ;
Get matched human bodies by body picture comparison and get the target picture information: [POST /artemis/api/body/v1/application/captureSearch](#) .
4. Added APIs for managing digital signage:
Search for data source: [POST /artemis/api/focsign/v1/material/dataSource/search](#) ;
Update the data source: [POST /artemis/api/focsign/v2/material/dataSource/update](#) ;
Batch update the data source: [POST /artemis/api/focsign/v2/material/dataSource/update/batch](#) .
5. Person information APIs:
Added an API for adding a custom field: [POST /artemis/api/resource/v1/person/customFields/single/add](#) ;
Added an API for editing the custom field information: [POST /artemis/api/resource/v1/person/customFields/single/modify](#) ;
Added an API for deleting a custom field: [POST /artemis/api/resource/v1/person/customFields/single/delete](#) .
Added 2 parameters **isPublic** and **isShow** for **CustomField** .
6. Access control APIs:
Added an API for getting the access level application information of a visitor: [POST /artemis/api/visitor/v1/person/ID/elementDownloadDetail](#)
7. Video APIs:
Extended and edited the description and note for [POST /artemis/api/video/v1/cameras/playbackURLs](#) .

Added an API for capturing real-time pictures via camera: [**POST /artemis/api/video/v1/camera/capture**](#).

Added an API for getting the tags of the person/vehicle-detected videos: [**POST /artemis/api/video/v1/event/searchLabels**](#).

8. Alarm and Event APIs:

Extended the description and note, and added a request parameter **passBack** for [**POST /artemis/api/eventService/v1/eventSubscriptionByEventTypes**](#).

Added a response parameter **passBack** for [**POST /artemis/api/eventService/v1/eventSubscriptionView**](#).

Added an API for searching for AIOP and HEOP event lists by condition: [**POST /artemis/api/eventService/v1/deviceApplicationEvent**](#).

9. Added a request parameter **isHumanSearchPic** for [**POST /artemis/api/frs/v1/application/picture**](#).

10. Added a parameter **timeZone** for [**AcsDeviceInfo**](#), [**EncodeDeviceInfo**](#) and [**MobileDeviceInfo**](#): added an object description [**TimeZoneInfo**](#) accordingly.

11. Added a parameter **vehicleDirectionType** for [**PassVehicleRecord**](#).

12. Added AIOP event and HEOP event to camera alarms.

Summary of Changes in Version 2.3.1_Oct., 2022

Extended the request message for [**POST /artemis/api/resource/v1/camera/advance/cameraList**](#), [**POST /artemis/api/resource/v1/cameras**](#), and [**POST /artemis/api/resource/v1/regions/regionIndexCode/cameras**](#): added a parameter **bRecordSetting** (whether to get the recording settings).

Summary of Changes in Version 2.3_Jun., 2022

1. Extended the description for searching for specified organization information by condition ([**POST /artemis/api/resource/v1/org/advance/orgList**](#)).

2. Extended the request and response message for adding a vehicle ([**POST /artemis/api/resource/v1/vehicle/single/add**](#)) and editing information of a vehicle([**POST /artemis/api/resource/v1/vehicle/single/update**](#)):

added 2 parameters: **effectiveDate** (start time of vehicle validity) and **expiredDate** (vehicle expiry date).

3. Extended the description of the request parameter "visitEndTime" (related API: [**POST /artemis/api/visitor/v1/appointment**](#), [**POST /artemis/api/visitor/v1/appointment/update**](#), [**POST /artemis/api/visitor/v1/registerment**](#), and [**POST /artemis/api/visitor/v1/registerment/update**](#)).

Extended the response message for checking in a visitor ([**POST /artemis/api/visitor/v1/registerment**](#)):

added a response parameter **qrCodeImage** (QR code image).

4. Added APIs for getting the video and audio stream:

Batch get streaming URLs for live view: [**POST /artemis/api/video/v2/cameras/previewURLs**](#) ;

Get streaming URL of two-way audio for the device: [**POST /artemis/api/video/v1/device/talkURLs**](#) .

Added a parameter **protocol** for getting streaming URL of two-way audio for the camera ([**POST /artemis/api/video/v1/cameras/talkURLs**](#)).

Extended the API description and request parameter **protocol**:

Get the streaming URL for live view: [**POST /artemis/api/video/v1/cameras/previewURLs**](#).

Get the streaming URL for playback: [**POST /artemis/api/video/v1/cameras/playbackURLs**](#).

5. Added an API for getting the heat map information of a specific camera ([**POST /artemis/api/aiapplication/v1/people/statisticsHeatMapByTime**](#)).

6. Added a typical application for managing mobile monitoring (search for driving event records, search for GPS statistics, receive events of vehicles linked to mobile devices, and get people counting statistics of vehicle linked to mobile device).

7. Added APIs for managing vehicle parking:

- Calculate the vehicle parking fee (related API: [**POST /artemis/api/vehicle/v1/parkingfee/calculate**](#)).
- Confirm the payment of parking fee and allow exit (related API: [**POST /artemis/api/vehicle/v1/parkingfee/confirm**](#)).
- Manage vehicle information in the blocklist (related API: [**POST /artemis/api/vehicle/v1/vehicle/blocklist/add**](#), [**POST /artemis/api/vehicle/v1/vehicle/blocklist/delete**](#), [**POST /artemis/api/vehicle/v1/vehicle/blocklist/modify**](#) and [**POST /artemis/api/vehicle/v1/vehicle/blocklist/get**](#)).

8. Modified the data type of the parameter **speed**:

Search for event information of a mobile device: [**POST /artemis/api/mobilesurveillance/v1/single/record**](#).

RecordOverview Object Description: [**RecordOverview**](#).

Modified the data type of the parameter **longitude**, **latitude**, **direction**, and **speed** for **gpsInfo** object description ([**gpsInfo**](#)).

Modified the data type of the parameter **longitude**, **latitude**, and **speed** for mobile event message ([**On-Board Monitoring Event Message**](#)).

9. Extended the parameter **devResourceType** (device resource type) by adding a value "mobileDevice" (related object descriptions: [**CameraInfo**](#), [**AlarmInputInfo**](#), and [**AlarmOutputInfo**](#)).

10. Extended the stream protocol by adding a value "websocket_s" ([**Video Type**](#)).

Extended the parameter "ability" (event category) by adding a value "event_ms" ([**Event Message Format**](#)).

Added 2 resource codes "mobileDevice" and "mobileVehicle" ([**Resource Types / Resource Permission Code**](#)).

Summary of Changes in Version 2.2.1_Mar., 2022

1. Added APIs for getting mobile device information:

Get the mobile device list in page: [**POST /artemis/api/resource/v1/mobileDevice/mobileDeviceList**](#);

Get the information of a mobile device by device ID: [**POST /artemis/api/resource/v1/mobileDevice/indexCode/mobileDeviceInfo**](#);

- Search the mobile device list: [**POST /artemis/api/resource/v1/mobileDevice/advance/mobileDeviceList**](#).
2. Extended the request and response message for getting the camera list of a specified area by area ID ([**POST /artemis/api/resource/v1/regions/regionIndexCode/cameras**](#)), getting the information of a specified camera by camera ID ([**POST /artemis/api/resource/v1/cameras/indexCode**](#)), getting the information list of all cameras ([**POST /artemis/api/resource/v1/cameras**](#)), and setting search conditions to search the specified cameras ([**POST /artemis/api/resource/v1/camera/advance/cameraList**](#)):
added 2 parameters: **deviceType** (device type) and **devIndexCode** (mobile device ID).
3. Extended the request and response message for getting the alarm input information list ([**POST /artemis/api/resource/v1/alarmInputs**](#)), setting search condition to search for the alarm input information ([**POST /artemis/api/resource/v1/alarmInput/advance/alarmInputList**](#)), getting the alarm output information list ([**POST /artemis/api/resource/v1/alarmOutputs**](#)), and setting search condition to search for the alarm output information ([**POST /artemis/api/resource/v1/alarmOutput/advance/alarmOutputList**](#)):
added a parameter **deviceType** (device type).
4. Added APIs for managing information of vehicles linked to mobile devices:
Get the list of vehicles linked to mobile devices: [**POST /artemis/api/resource/v1/mobilevehicle/mobilevehicleList**](#) ;
Get the information of a vehicle linked to the mobile device: [**POST /artemis/api/resource/v1/mobileVehicle/indexCode/mobileVehicleInfo**](#) ;
Search the list of vehicles linked to mobile devices: [**POST /artemis/api/resource/v1/mobilevehicle/advanced/mobilevehicleList**](#) .
5. Added APIs for managing mobile monitoring:
Get GPS statistics information of mobile devices: [**POST /artemis/api/mobilesurveillance/v1/gpsDetails**](#) ;
Search for event information of a mobile device: [**POST /artemis/api/mobilesurveillance/v1/single/record**](#) ;
Search for event records of vehicles linked to mobile devices: [**POST /artemis/api/mobilesurveillance/v1/recordOverview**](#) .
6. Added the mobile event message ([**On-Board Monitoring Event Message**](#)).

Chapter 2 Getting Started

2.1 Installation

The Open Platform can be installed with the VMSPlatform in a same computer or server (i.e., centralized mode) or in different computers or servers (i.e., distributed mode).

Before You Start

- Make sure you have prepared the proper system environment and installed the VMSPlatform.



The compatible versions include version 2.0/2.1/2.2 of VMSPlatform and version 1.0/1.1 of VMSPlatform Access Control.

- Make sure you have enabled the License of Third-Party Integration function, see details in the figure below.

License Details		X
License Details	License List	License Expiry Date : 2021-01-
Authorization Details	Details	
Queue Analysis	Enabled	
People Counting	Enabled	
Heat Analysis	Enabled	
Hik-Connect	Enabled	
Smart Wall (Graphic Card)	Enabled	
Person Feature Analysis	Enabled	
Pathway Analysis	Enabled	
Third-Party Integration	Enabled	
Archive Search	Enabled	
Visual Tracking	Enabled	
Evidence Collection	Enabled	
Visitor	Enabled	
Video Intercom	Enabled	
Entrance & Exit	Enabled	

Figure 2-1 Enable License of Third-Party Integration

Steps

1. Run the executable program VMSPlatform_OpenAPI.exe as an administrator to enter the welcome panel of the InstallShield Wizard.
 2. Click **Next** to start the InstallShield Wizard.
 3. Read the License Agreement.
 - Click **I accept the terms of the license agreement** and continue.
 - Click **I do not accept the terms of the license agreement** to cancel the installation.
 4. Click **Next**.
 5. Perform one of the following operations according to the centralized or distributed installation mode.
-



Note

If the event or alarm uploading frequency is larger than 100 times per second, you should adopt the distributed installation mode.

- For centralized installation mode, click **Next** to continue.
-



Note

The default directory C:\Program Files (x86)\VMSPlatform\VSM Servers\OpenAPI is used.

- For distributed installation mode, click **Change...** and select a proper directory as desired to install the Open Platform.

6. Click **Next** to continue.

7. Read the pre-install information, and click **Install** to begin the installation.

A panel indicating progress of the installation displays.

8. Read the post-install information and click **Finish** to complete the installation.

Four services, i.e., OpenAPI Translation Service, artemis, artemis-web, and artemis-portal, are generated. And the following documents and software development kits will appear under the installation directory.

Folder Name	File	Description
Document	VMSPlatform OpenAPI Developer Guide	Provide the RESTful APIs for integrating different functions.
WebSDK	HCVideoSDKWebControl VMSPlatform Video WebSDK Developer Guide Demos	Provide the APIs, introductions, and sample codes for developing a video player on the web browser.
C++SDK	HCVideoSDK VMSPlatform Video SDK (C++) Developer Guide HCVideoSDKDemo	Provide the APIs using C++ language, introductions, and sample codes for playing video and audio.

Folder Name	File	Description
C#SDK	VMSPlatform Video SDK (C#) Demo User Manual C#HCSDKDemo	Provide the APIs using C# language, introductions, and sample codes for playing video and audio.
C++HttpUtilib	HttpUtilib DLL VMSPlatform OpenAPI Security Authentication Library (C++) Developer Guide HttpUtilib Demo	Encapsulate the POST methods of HTTP/HTTPS and provide a unified access of OpenAPI to communicate with gateway based on HTTP.
jsDecoder	jsDecoder SDK VMSPlatform Video jsDecoder SDK Developer Guide jsDecoder SDK Demo and User Manual	Provide a no plug-in solution to play video via web browser.

2.2 Configuration

After installing the services of Open Platform, some configurations should be done to make it running normally. Especially for the distributed installation mode, the service certificate must be authenticated. And also, switching the integration mode of VMSPlatform and enabling the Open Platform are required.

2.2.1 Authenticate Service Certificate

If the installation of Open Platform services and VMSPlatform services adopts the distributed mode, before using the services, the security certificate must be authenticated.

Steps

1. Log in to the VMSPlatform via the Web Client, refer to *VMSPlatform Web Client User Manual* for details.
2. Select  → System Configuration → Security → Service Component Certificate .

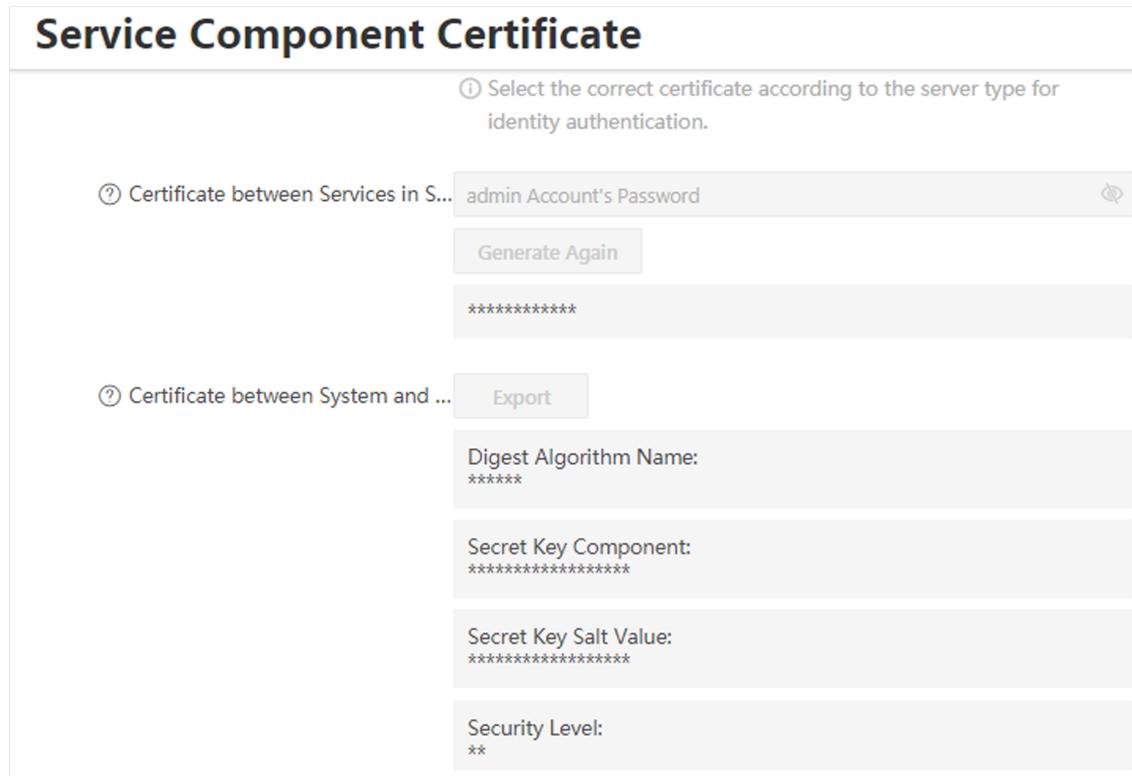


Figure 2-2 View Service Certificate

3. View and get the service certificate information in the **Certificate between Services in System** field.
4. Run the Service Manager as an administrator.
5. Click **Security Certificate** to open Enter Certificate Information dialog.
6. Enter the obtained service certificate information in the dialog.
7. Click **OK**.

2.2.2 Enable Open Platform

By default, the Open Platform is disabled. So before the integration, you must enable it in the VMSPlatform Web Client.

Steps

1. Log in to the VMSPlatform via the Web Client, refer to *VMSPlatform Web Client User Manual* for details.
2. Select → **System Configuration** → **Third-Party Integration** → **OpenAPI Gateway** .
3. Switch **Open API** to on.

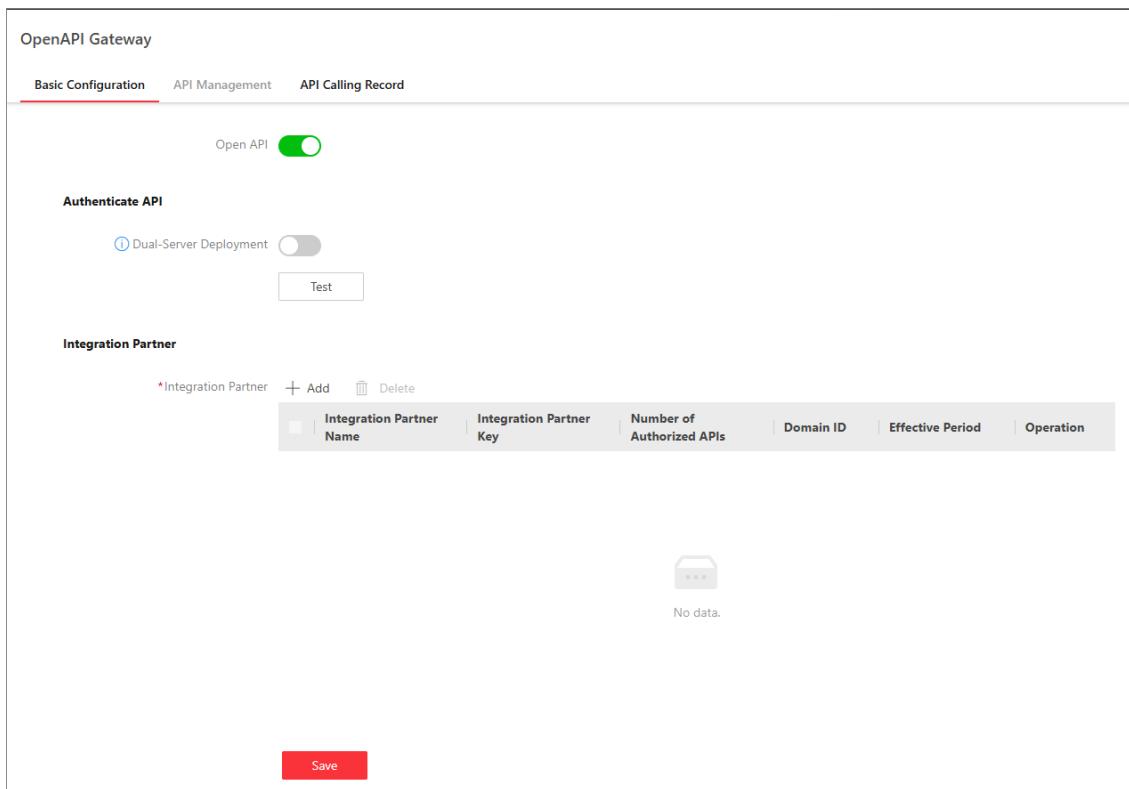


Figure 2-3 Enable Open Platform Page

4. Configure the deployment environment for OpenAPI: if the OpenAPI is on-prem, keep the **Dual-Server Deployment** disabled; if the openAPI is running on 2 servers, enter the IP address of Open Platform and the management port No.

 **Note**

The default management port No. for **Dual-Server Deployment** is 8208, which can be obtained from the watchdog management portal.

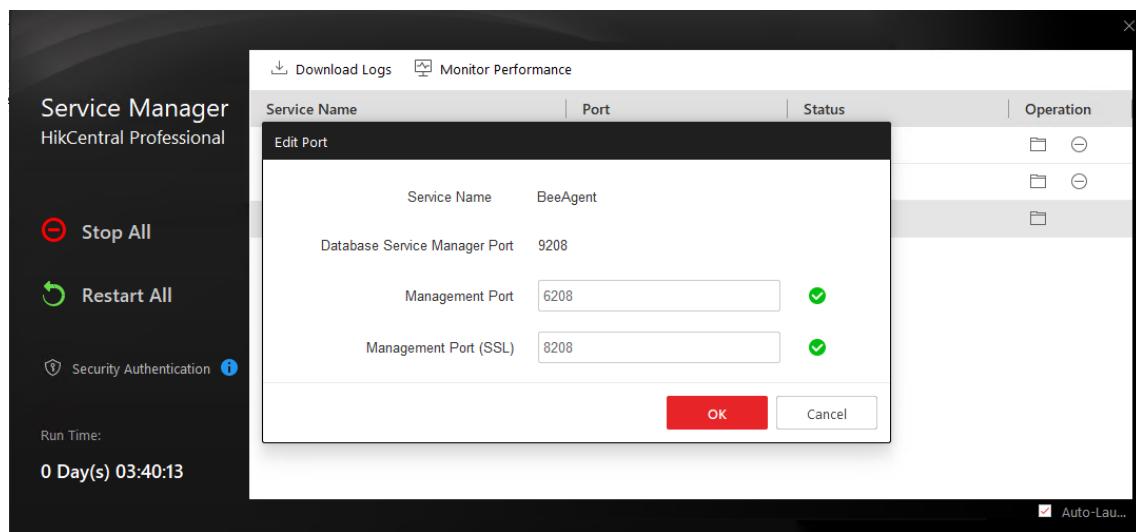


Figure 2-4 Watchdog Management Portal

5. Create a partner.

- 1) Click **Add**.

The screenshot shows the 'Add Integration Partner' interface. The 'Basic Information' section contains fields for the partner's name ('Integration Partner Name' set to 'admin'), linked user ('Linked User' set to 'admin'), integration partner key (a redacted placeholder), integration partner secret (a redacted placeholder), a description ('admin partner'), and domain settings ('Domain ID' set to 'LAN (ID: 0)'). It also includes an 'Effective Period' field with a placeholder 'Please select date.' and a date picker icon. The 'Authorized APIs' section displays a hierarchical tree of available APIs, with several checkboxes checked under 'Root' (Common API, Physical Resources API, Logical Resources API) and one checkbox unchecked under 'Video API'. At the bottom of the form are three buttons: 'Add' (red background), 'Add and Continue' (white background), and 'Cancel'.

Figure 2-5 Add Integration Partner

- 2) Enter the partner name and description.
- 3) Select the user to be linked with the integration partner (so that the partner will call APIs with the user's permission).
- 4) Select the domain ID: 0-the client is in LAN, 1-the client is in WAN.

 **Note**

If the domains of the third-party platform and HikCentral Professional are different, add an extension field to set the domain information.

- 5) **Optional:** Set the effective period. After the set date, the integration partner will no longer be able to call the APIs.
- 6) Check APIs to allow access to the the integration partner.
6. Click **Save**.

7. Optional: Perform the request URL test.

- 1) Click **API List** at the left panel of Open Platform.
 - 2) Select **URL** and click **Online Debug** at the right panel to enter debug page.
-



Note

The third-party partner should enter the debug page via the web site [**https://IPaddress/
artemis-portal**](https://IPaddress/artemis-portal).

- 3) Enter the request URL, request parameters, and authentication information (the APPkey and APPsecret are returned after creating partner) to start the test.

If the request URL is available, the corresponding response message will be returned.

Chapter 3 Protocol Summary

3.1 Request and Response Rule

3.1.1 Request

The request for executing a task contains HTTP method, request URL, and request message.

HTTP Method

The POST method is used to execute different tasks in this manual.

Request URL

The format of request URL is defined as "<protocol>://<serverAddress>[:serverPort][absolutePath? [query]]". For example, `https://10.26.31.41:443/artemis/api/example?qa=value1&qb=value2&qc=value3`.

protocol

Required, protocol type, here in this manual, it always be "https".

serverAddress

Required, domain name or IP address of the platform, i.e., "10.26.31.41" in the above URL example.

serverPort

Optional, web access port No. of the platform, i.e., "403" in the above URL example. If this field is not configured, it will use the default port No.

absolutePath

Required, the absolute path of resources for identifying, and it is a part of URI (Uniform Resource Identifier), i.e., "/artemis/api/example" in the above URL example.

query

Optional, parameters for describing the resource, and it is the other part of URI (Uniform Resource Identifier), i.e., "qa", "qb", and "qc" in the above URL example.



The URI is a uniform resource identifier for distinguishing different resource types, which consists of **absolutePath** and **query**, i.e., "/artemis/api/example?qa=value1&qb=value2&qc=value3" in the above URL example. Sometime, the URI will replace the URL to simplify the description.

Request Message

The request message is in JSON format and encoded by UTF-8 rule. It consists of multiple input parameters, and the parameters are named by camel case.

3.1.2 Response

The response returned after calling API contains response message and status or 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.

Parameter	Required/ Optional	Data Type	Description
code	Required	String	Returned status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details); its maximum length is 32 bits.
msg	Required	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details.
data	Required	/	The data details vary in different request URLs.

Status or Error Code

The status or error code will be returned in the response message. If succeeded, the status code is "0"; and if failed, the error codes vary in different error types, refer to [Status or Error Code](#) for details.

Example

Response of Calling Succeeded

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "streamURL": "rtsp://10.2.145.66:655/EUrl/CLJ52BW"
  }
}
```

Example

Response of Calling Failed

```
{  
  "code": "0x02401006",  
  "msg": "Token Exception.",  
  "data": ""  
}
```

Example

Response of Single Data Item

```
{  
  "code": "0",  
  "msg": "xxxxxx",  
  "data": {  
    "userId": "xxxxxx",  
    "name": "xxxxxx",  
    ...  
  }  
}
```

Example

Response of Paged Batch Data

```
{  
  "code": "0",  
  "msg": "xxxxxx",  
  "data": {  
    "total": 5,  
    "pageSize": 20,  
    "pageNo": 1,  
    "list": [{  
      "userId": "xxxxxx",  
      "name": "xxxxxx",  
      ...  
    },  
    {  
      "userId": "xxxxxx",  
      "name": "xxxxxx",  
      ...  
    }]  
  }  
}
```

Example

Response of Batch Data without Paging

```
{  
  "code": "0",  
  "msg": "xxxxxx",  
  "data": {  
    "total": 5,  
    "list": [{  
      "userId": "xxxxxx",  
      ...  
    }]  
  }  
}
```

```
"name": "xxxxxx",
...
},
{
  "userId": "xxxxxx",
  "name": "xxxxxx",
  ...
}]
}
```

3.2 Signature and Authentication

The APIs in this document use AK/SK digest authentication, the AK/SK is generated by the gateway.

Signature String

The signature string before calculating consists of HTTP method, headers, and URI, which is defined as below.

```
HTTP METHOD "\n"
Accept "\n"
Content-MD5 "\n"
Content-Type "\n"
Date "\n"
Headers
Uri
```

HTTP METHOD

The HTTP method must be upper-case, e.g., "POST".

Accept

Setting Accept header is suggested. As for some HTTP clients, if Accept is not configured, the default value: */* will automatically be assigned to it, which may cause the failure of signature verification.

Content-MD5

The Content-MD5 is the value of digest calculated by MD5 algorithm in the request body and processed by BASE64 algorithm, and the body must be on non-form format. E.g., String content-MD5=Base64.encodeBase64(MD5(bodyStream.getbytes("UTF-8"))).

Content-Type

Content format, such as "text/plain", "text/xml", and "text/json".

Date

Signature date and time.

Headers

The headers consists of X-Ca-Key, X-Ca-Signature, X-Ca-Signature-Headers, X-Ca-Timestamp, X-Ca-Nonce, and other custom headers. A value will be assigned to each header, the format is "header:value\n", in which, the header should be in lower-case and there is no space at front and behind of the value, also, it should end with "\n". For headers in a list, they should be sorted alphabetically.

X-Ca-Key

Required, appKey or appSecret for authentication and it should be obtained by contacting our technical supports.

Make sure the appKey or appSecret is properly kept. Otherwise, please reset it and get a new one.

X-Ca-Signature

Required, signature string.

X-Ca-Signature-Headers

Required, a lower-case name string of headers that will be calculated in the signature. The names in the string will be sorted alphabetically and each two names are separated by comma. E.g., x-ca-signature-headers:x-ca-key,x-ca-timestamp.



The following headers will not be calculated in the signature: X-Ca-Signature, X-Ca-Signature-Headers, Accept, Content-MD5, Content-Type, Date, Content-Length, Server, Connection, Host, Transfer-Encoding, X-Application-Context, and Content-Encoding. The request header "Except: 100-continue" is not supported by the platform.

X-Ca-Timestamp

Optional, time stamp of calling API, the value equals to the number of milliseconds calculated from 00:00:00 on 1st., Jan., 1970 to the current time. E.g., x-ca-timestamp:1550153182830.

X-Ca-Nonce

Optional, UUID generated when calling API, which is used with the time stamp for anti-replay.

Uri

Uniform resource identifier, which consists of resource absolute path and query parameters, e.g., "/artemis/api/example?qa=value1&qb=value2&qc", or "/artemis/api/example".



Each header should end with "\n", but if the Accept, Content-MD5, Content-Type, or Date header does not exist, "\n" is not required.

The following shows the example of signature string before calculating.

```
POST \n
/* \n
dGhpcyBpcyBhIGV4YW1wbGU= \n
text/plain;charset=UTF-8 \n
```

```
Thu, 24 Nov 2016 03:12:25 GMT \n
a-header:value \n
b-header:value \n
x-ca-key:1231243298 \n
x-ca-timestamp:1479956865000 \n
/artemis/api/example?a-bodyform=value&a-query=value&b-query=value
```

Signature Calculation

1. Calculate the signature string by HmacSHA256 algorithm with the appKey or appSecret to generate message digest.
2. Calculate the message digest by BASE64 algorithm to generate the signature.



During the signature calculation, the encoding format is UTF-8.

The following shows the JAVA sample code of signature calculation:

```
Mac hmacSha256 = Mac.getInstance("HmacSHA256");
byte[] keyBytes = secret.getBytes("UTF-8");
hmacSha256.init(new SecretKeySpec(keyBytes, 0, keyBytes.length, "HmacSHA256"));
String sign = new String(Base64.encodeBase64(Sha256.doFinal(stringToSign.getBytes("UTF-8")),"UTF-8"));
```

Signature Transfer and Authentication

The signature must be transmitted in the request header, see details in the sample code below.

```
/*request URL*/
http://www.example.com/artemis/api/example?qa=a&qb=B
/*HTTP method*/
POST
/*headers*/
Accept:/*
Accept-Encoding:gzip, deflate, sdch
Accept-Language:en-US,en;q=0.8
Connection:keep-alive
Content-Length:0
Content-Type:text/plain;charset=UTF-8
Cookie:JSESSIONID=D9C4A515CACAC31211D1612039D062B7
header-A:A
header-B:b
X-Ca-Key:29666671
X-Ca-Signature:XeBEg2Ifh+FOfeProHLMYz8luWkJ00Exx7N7tJuats8=
X-Ca-Signature-Headers:header-a,header-b,x-ca-key,x-ca-timestamp
X-Ca-Timestamp:1479968678000
X-Requested-With:XMLHttpRequest
/*query parameters*/
qa:a
qb:B
/*signature string*/
POST\n
*/\n
```

```
text/plain;charset=UTF-8\n
header-a:A\n
header-b:b\n
x-ca-key:29666671\n
x-ca-timestamp:1479968678000\n
/artemis/api/example?a-body=a&qa=a&qb=B&x-body=x
/*signature information*/
XEBEg2Ifh+FOfeProHLMYz8luWkJ00Exx7N7tJuats8=
```

Example

Sample Flow of Signature and Authentication

Note: The following red text represent the annotation.

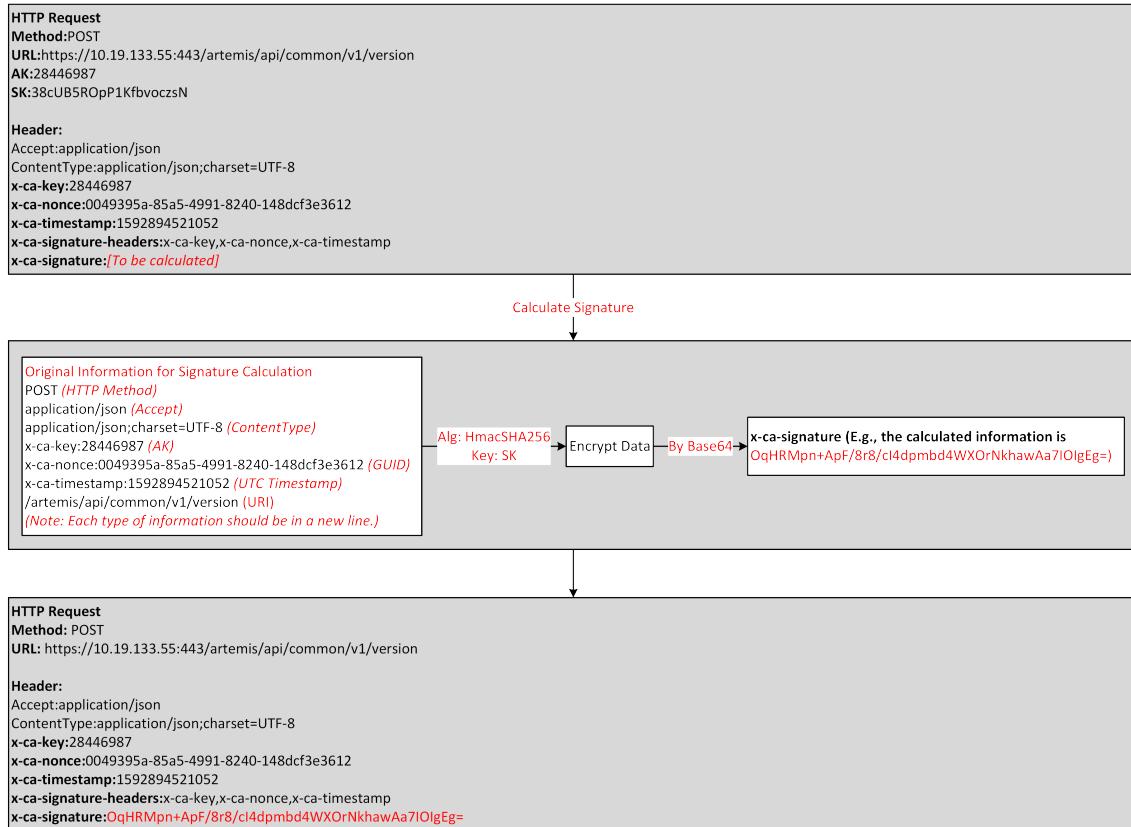


Figure 3-1 Calculate Signature and Authenticate

Chapter 4 Typical Applications

4.1 Common Application

4.1.1 Capability Description

Get general information or general applications (e.g., platform service information), which might be related to multiple service applications.

4.1.2 Programming Guide

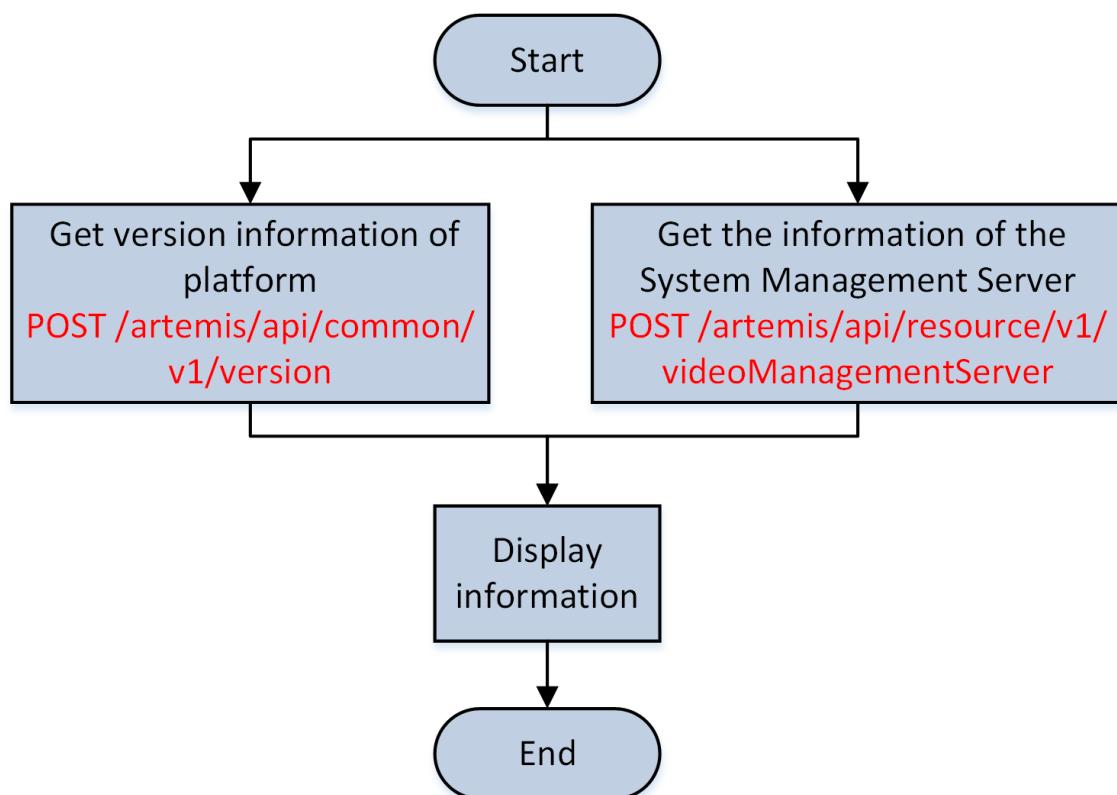


Figure 4-1 API Calling Flow of Getting Platform Service Information

- Call **`POST /artemis/api/common/v1/version`** to get version information of platform.
- Call **`POST /artemis/api/resource/v1/videoManagementServer`** to get the information of the System Management Server (e.g., IP address, port No., CPU usage, and network status).

4.2 Resource Management

4.2.1 Capability Description

Resource management includes APIs for full synchronization and search by condition of devices and servers (encoding device, Intelligent Analysis Server, access control device, on-board device, recording server, and streaming server), sites, areas, cameras, alarm inputs/outputs, access points, person information, and license plate information. These basic APIs are also used for further applications of other services. By calling these APIs, you can get the resource point indexCode, which can be used in APIs for other operations on the resource point, e.g., the obtained camera indexCode can be used in the API of video streaming to get the camera streaming URL.

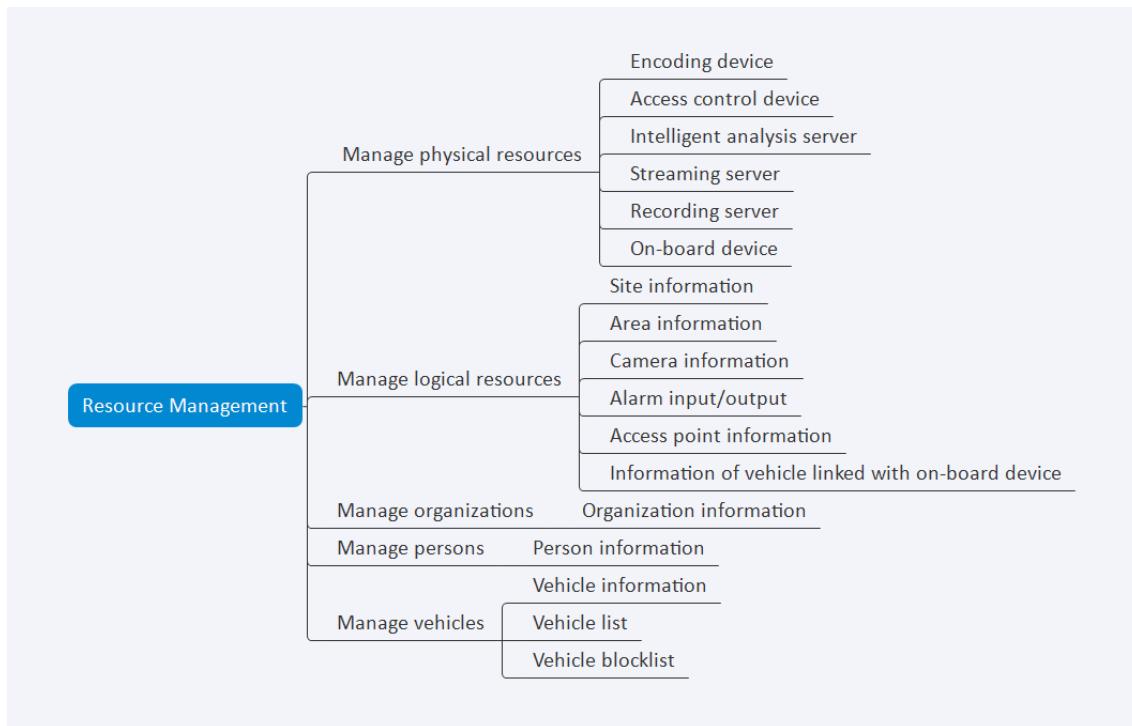


Figure 4-2 Resource Management Capability Directory

4.2.2 Programming Guide

Manage Physical Resources

The physical resource management provides the management capability of physical devices and servers added to the HikCentral Professional platform.

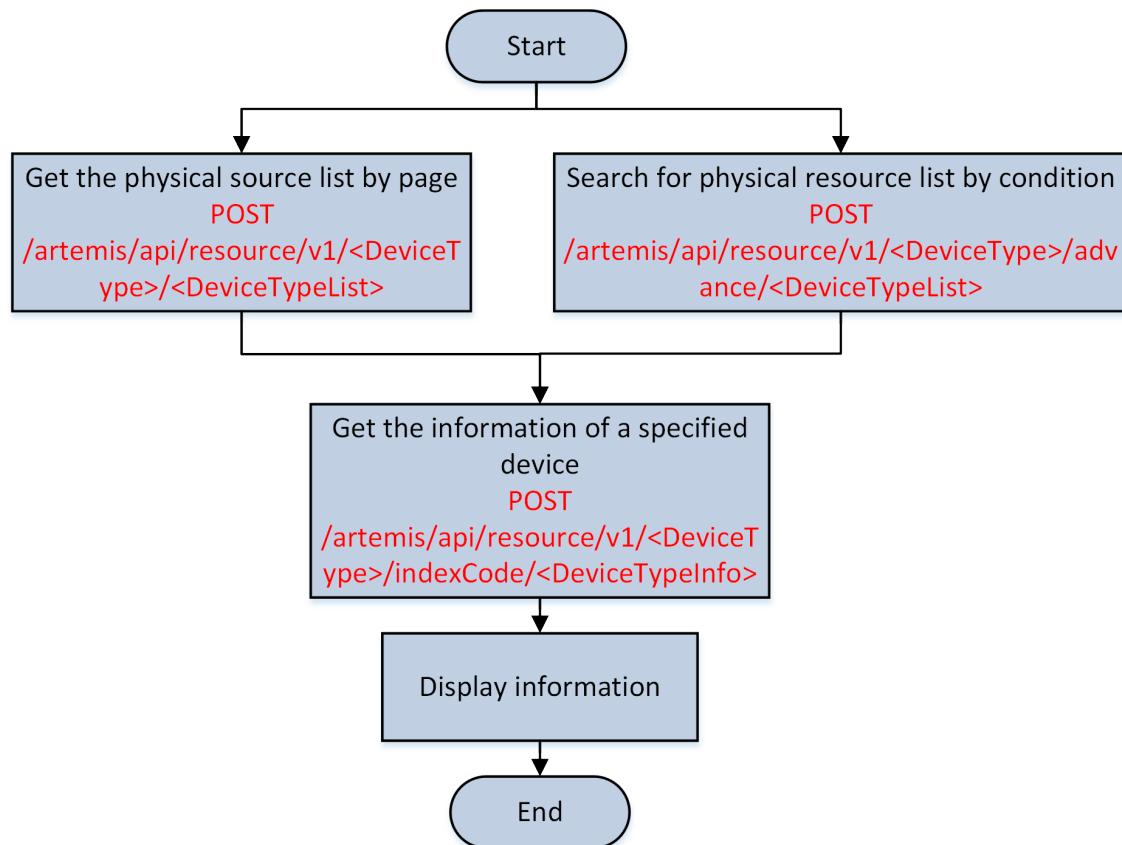


Figure 4-3 API Calling Flow of Getting Information of Physical Resource

1. Call the API of getting the list of a physical resource (POST /arTEMIS/api/resource/v1/<DeviceType>/<DeviceTypeList>) or the API of searching for the list of a physical resource by condition (POST /arTEMIS/api/resource/v1/<DeviceType>/advANCE/<DeviceTypeList>) to get the physical resource list.
2. Call the API of getting information of a single resource (POST /arTEMIS/api/resource/v1/<DeviceType>/indexCode/<DeviceTypeInfo>) to get information of a single resource.

The APIs of getting physical resource information are displayed by resource type as follows:

Table 4-1 Encoding Device

Function	API
Get encoding device list	<u>POST /arTEMIS/api/resource/v1/encodeDevice/encodeDeviceList</u>
Search for encoding devices by condition	<u>POST /arTEMIS/api/resource/v1/encodeDevice/advANCE/encodeDeviceList</u>
Get an encoding device's information	<u>POST /arTEMIS/api/resource/v1/encodeDevice/indexCode/encodeDeviceInfo</u>

Table 4-2 Access Control Device

Function	API
Get access control device list	<u>POST /arTEMIS/api/resource/v1/acsDevice/acsDeviceList</u>
Search for access control devices by condition	<u>POST /arTEMIS/api/resource/v1/acsDevice/advance/acsDeviceList</u>
Get an access control device's information	<u>POST /arTEMIS/api/resource/v1/acsDevice/indexCode/acsDeviceInfo</u>

Table 4-3 Intelligent Analysis Server

Function	API
Get DeepinMind Server list	<u>POST /arTEMIS/api/resource/v1/intelligentServer/intelligentServerList</u>

Table 4-4 Streaming Server

Function	API
Get Streaming Server list	<u>POST /arTEMIS/api/resource/v1/streamServer/streamServerList</u>

Table 4-5 Recording Server

Function	API
Get Recording Server list	<u>POST /arTEMIS/api/resource/v1/recordServer/recordServerList</u>
Get storage status of cameras linked to a specific Recording Server	<u>POST /arTEMIS/api/resource/v1/recordServer/recordStatus</u>
Get information of a Recording Server	<u>POST /arTEMIS/api/resource/v1/recordServer/indexCode/recordServerInfo</u>

Table 4-6 On-Board Device

Function	API
Get the on-board device list in page	<u><i>POST /artemis/api/resource/v1/mobileDevice/mobileDeviceList</i></u>
Get the information of an on-board device by device ID	<u><i>POST /artemis/api/resource/v1/mobileDevice/indexCode/mobileDeviceInfo</i></u>
Search the on-board device list	<u><i>POST /artemis/api/resource/v1/mobileDevice/advance/mobileDeviceList</i></u>

Manage Logical Resources

The logical resource management provides the management capability of logical resources including the information of sites, areas, cameras, access points, alarm inputs/outputs, etc., meeting the needs of multi-end (web, PC, and mobile phone) development.

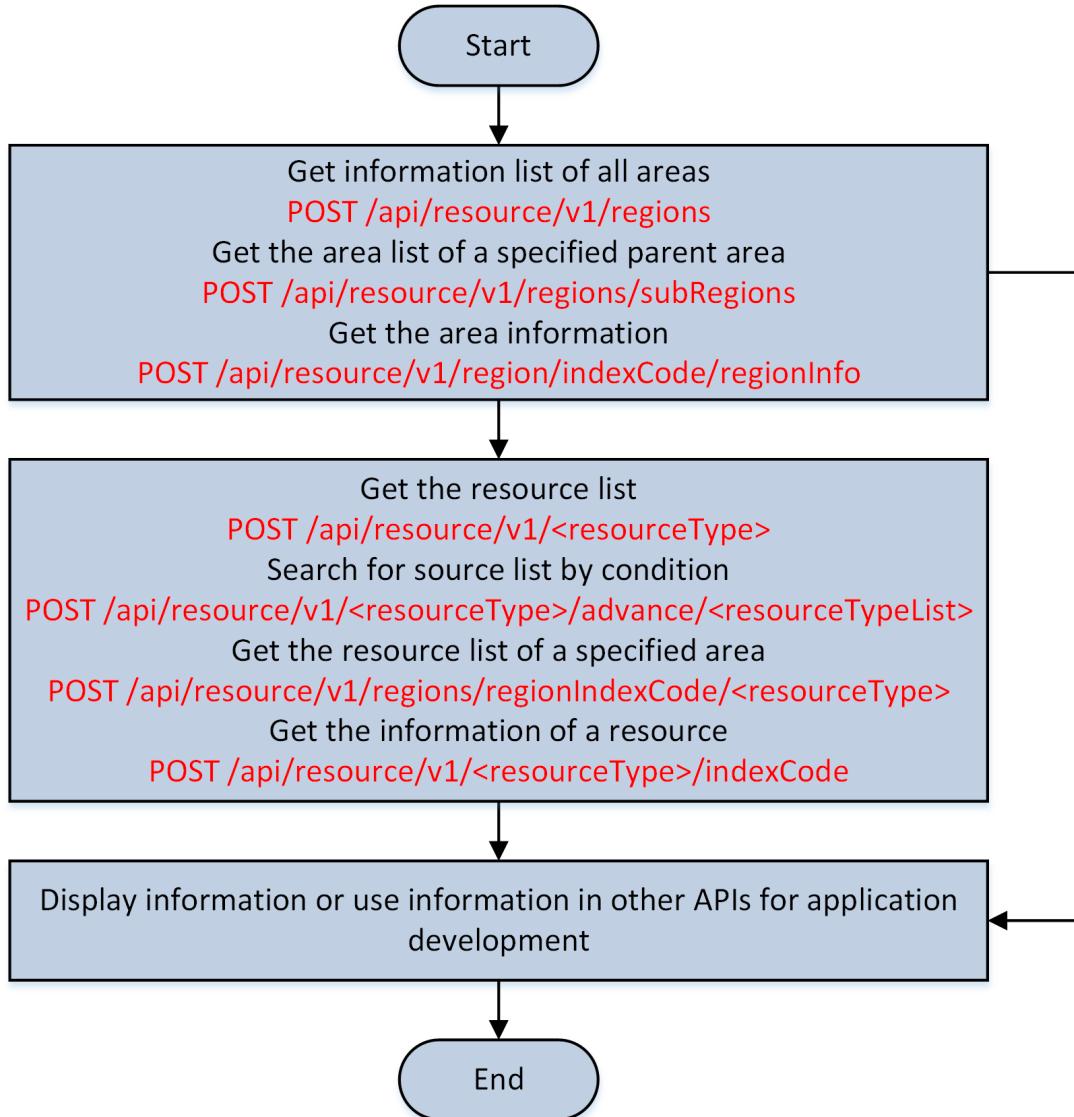


Figure 4-4 API Calling Flow of Getting Information of Logical Resource

1. According to the site information, call [POST /artemis/api/resource/v1/regions](#) or [POST /artemis/api/resource/v1/regions/subRegions](#) to get the area list and sub area list. Call [POST /artemis/api/resource/v1/region/indexCode/regionInfo](#) to get the information of a single area.
2. Call the API of getting resource list, searching for resource list by condition, or getting the list of all resources in an area; call [POST api/resource/v1/<resourceType>/indexCode](#) to get the information of a single resource.
3. The obtained information can be displayed on the developed page/client/app, or used for other service development.



Note

For RSM scenario, call [***POST /artemis/api/resource/v1/site/siteList***](#), or [***POST /artemis/api/resource/v1/site/advance/siteList***](#) to get the site list; call [***POST /artemis/api/resource/v1/site/indexCode/siteInfo***](#) to get the information of a single site.

Table 4-7 Site

Function	API
Get site list	<i>POST /artemis/api/resource/v1/site/siteList</i>
Get a site's information	<i>POST /artemis/api/resource/v1/site/indexCode/siteInfo</i>
Search for sites by condition	<i>POST /artemis/api/resource/v1/site/advance/siteList</i>

Table 4-8 Area

Function	API
Get area list of a parent area by area No.	<i>POST /artemis/api/resource/v1/regions/subRegions</i>
Get an area's information by area No.	<i>POST /artemis/api/resource/v1/region/indexCode/regionInfo</i>
Search for areas by condition	<i>POST /artemis/api/resource/v1/regions</i>

Table 4-9 Camera

Function	API
Get camera list of an area by area No.	<i>POST /artemis/api/resource/v1/regions/regionIndexCode/cameras</i>
Get a camera's information by camera ID	<i>POST /artemis/api/resource/v1/cameras/indexCode</i>
Get cameras' information in page	<i>POST /artemis/api/resource/v1/cameras</i>
Search for cameras by condition	<i>POST /artemis/api/resource/v1/camera/advance/cameraList</i>

Table 4-10 Alarm Input/Output

Function	Description
Get alarm input information according to alarm input ID	<i>POST /arTEMIS/api/resource/v1/alarmInputs/indexCode</i>
Get all the alarm input information	<i>POST /arTEMIS/api/resource/v1/alarmInputs</i>
Search for alarm input information	<i>POST /arTEMIS/api/resource/v1/alarmInput/advance/alarmInputList</i>
Get alarm output information according to alarm output ID	<i>POST /arTEMIS/api/resource/v1/alarmOutputs/indexCode</i>
Get all the alarm output information	<i>POST /arTEMIS/api/resource/v1/alarmOutputs</i>
Search for alarm output information	<i>POST /arTEMIS/api/resource/v1/alarmOutput/advance/alarmOutputList</i>
Control alarm output	<i>POST /arTEMIS/api/resource/v1/alarmOutput/controlling</i>

Table 4-11 Access Point and Card Reader

Function	API
Get access point list of an area by area No.	<i>POST /arTEMIS/api/resource/v1/acsDoor/region/acsDoorList</i>
Get an access point's information	<i>POST /arTEMIS/api/resource/v1/acsDoor/indexCode/acsDoorInfo</i>
Get access points' information in page	<i>POST /arTEMIS/api/resource/v1/acsDoor/acsDoorList</i>
Search for access points by condition	<i>POST /arTEMIS/api/resource/v1/acsDoor/advance/acsDoorList</i>
Get card reader information	<i>POST /arTEMIS/api/resource/v1/reader/search</i>

Table 4-12 Vehicle Linked to On-Board Device

Function	Description
Get the list of vehicles linked to on-board devices	<u>POST /artemis/api/resource/v1/mobilevehicle/mobilevehicleList</u>
Get the information of a vehicle linked to the on-board device	<u>POST /artemis/api/resource/v1/mobileVehicle/indexCode/mobileVehicleInfo</u>
Search the list of vehicles linked to on-board devices	<u>POST /artemis/api/resource/v1/mobilevehicle/advanced/mobilevehicleList</u>

Table 4-13 Face Picture Library

Function	Description
Get information list of face picture libraries	<u>POST /artemis/api/frs/v1/face/groupList</u>
Search for face picture libraries	<u>POST /artemis/api/frs/v1/face/group</u>
Add a face picture library	<u>POST /artemis/api/frs/v1/face/group/single/addition</u>
Edit information of a face picture library	<u>POST /artemis/api/frs/v1/face/group/single/update</u>
Delete a face picture library	<u>POST /artemis/api/frs/v1/face/group/batch/deletion</u>
Apply face picture library to device	<u>POST /artemis/api/frs/v1/plan/recognition/black/restart</u>
Search for the face picture comparison information by camera	<u>POST /artemis/api/aiapplication/v1/face/faceMatchRecord</u>

Table 4-14 Face

Function	Description
Add a face's information	<u>POST /artemis/api/frs/v1/face/single/addition</u>
Delete a face's information	<u>POST /artemis/api/frs/v1/face/deletion</u>
Search for face information in face picture library	<u>POST /artemis/api/frs/v1/face</u>
Download face picture via URL	<u>POST /artemis/api/frs/v1/application/picture</u>

Table 4-15 Visitor

Function	Description
Add a visitor's reservation record	<i>POST /artemis/api/visitor/v1/appointment</i>
Add a visitor's reservation record (v2)	<i>POST /artemis/api/visitor/v2/appointment</i>
Edit a visitor's reservation record	<i>POST /artemis/api/visitor/v1/appointment/update</i>
Edit a visitor's reservation record (v2)	<i>POST /artemis/api/visitor/v2/appointment/update</i>
Delete a visitor's reservation record	<i>POST /artemis/api/visitor/v1/appointment/single/delete</i>
Get the list of the reservation records	<i>POST /artemis/api/visitor/v1/appointment/appointmentlist</i>
Get the picture of a visitor	<i>POST /artemis/api/visitor/v1/appointment/downloadpicture</i>
Add a visitor's information for checking in	<i>POST /artemis/api/visitor/v1/registerment</i>
Edit a visitor's information for checking in	<i>POST /artemis/api/visitor/v1/registerment/update</i>
Revoke visitor's access level after the visitor checks out	<i>POST /artemis/api/visitor/v1/visitor/out</i>
Verify the validity of face picture	<i>POST /artemis/api/acs/v1/faceCheck</i>
Search for the custom information about visitors	<i>POST /artemis/api/visitor/v1/visitorconfig/customfields</i>
Search for the information about visitor groups by group name	<i>POST /artemis/api/visitor/v1/visitorgroups</i>
Search for visitors' information by visitor group ID	<i>POST /artemis/api/visitor/v1/visitorgroups/groupinfo</i>
Get the visitor's information by condition	<i>POST /artemis/api/visitor/v1/visitor/visitorInfo</i>
Get the information about a single visitor	<i>POST /artemis/api/visitor/v1/visitor/single/visitorinfo</i>

Control Alarm Output

Call the alarm output control API to control the alarm output control status, meeting the needs of on-site control including barrier gate control, sounder control, etc.

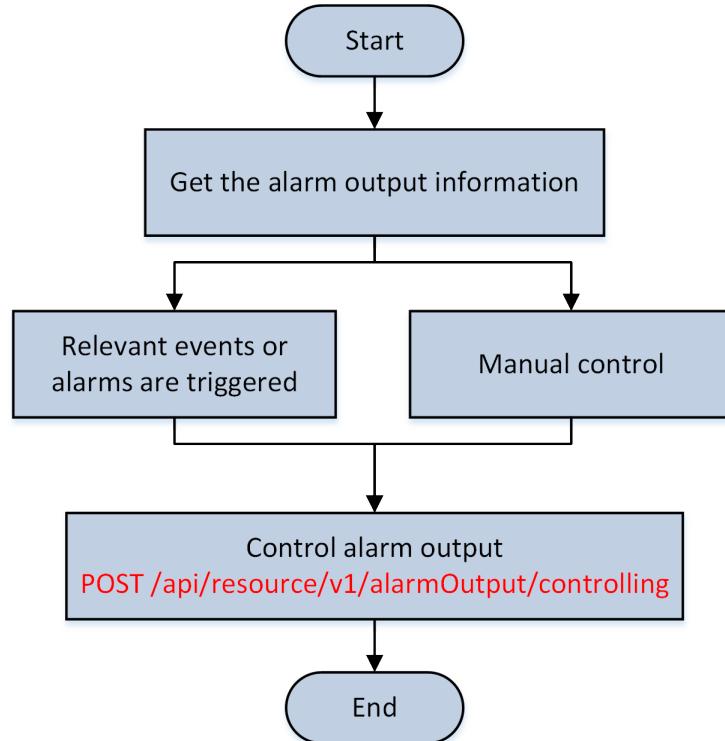


Figure 4-5 API Calling Flow of Controlling Alarm Output

1. Call the relevant APIs from [Table 4-10](#) to get the alarm output information.
2. If manual control is required (determined by the monitoring system integrated by web or control client) or relevant events or alarms are triggered in the deployed environment, call **[POST /artemis/api/resource/v1/alarmOutput/controlling](#)** to control the on/off status of alarm output (remotely opening barrier gate, sounder output alarms, etc.).

Manage Organizations

The organization management includes operations like adding/deleting organizations, editing information of organizations, searching for organizations, etc.

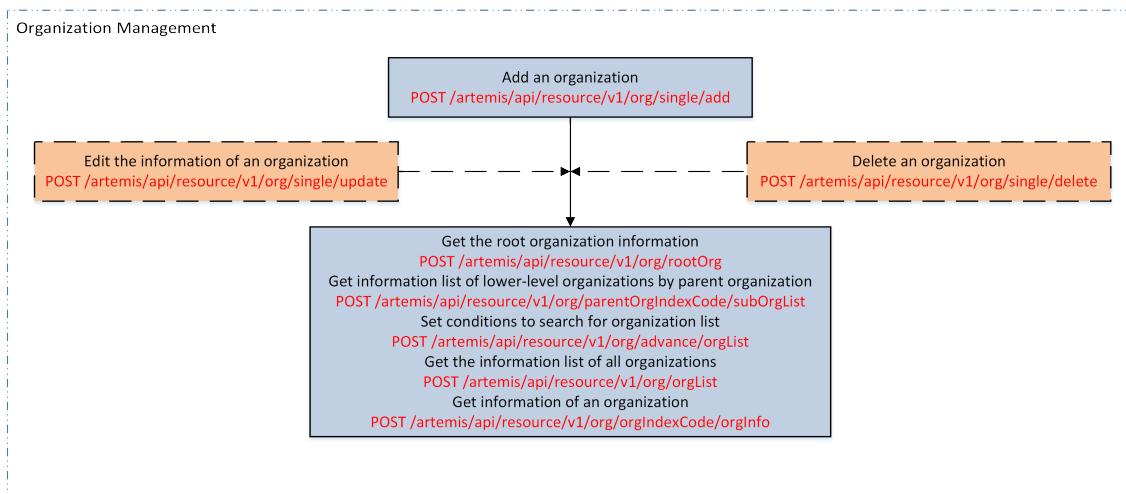


Figure 4-6 API Calling Flow of Managing Organizations

Function	Description
Get root organization information	POST /artemis/api/resource/v1/org/rootOrg
Get information list of lower-level organizations by parent organization	POST /artemis/api/resource/v1/org/parentOrgIndexCode/subOrgList
Get information of an organization	POST /artemis/api/resource/v1/org/orgIndexCode/orgInfo
Get information list of all organizations	POST /artemis/api/resource/v1/org/orgList
Search for organizations by condition	POST /artemis/api/resource/v1/org/advance/orgList
Add an organization	POST /artemis/api/resource/v1/org/single/add
Edit an organization's information	POST /artemis/api/resource/v1/org/single/update
Delete an organization	POST /artemis/api/resource/v1/org/single/delete

1. Call [**POST /artemis/api/resource/v1/org/single/add**](#) to add an organization.
2. Call [**POST /artemis/api/resource/v1/org/rootOrg**](#) to get the root organization information.
3. Call [**POST /artemis/api/resource/v1/org/parentOrgIndexCode/subOrgList**](#) to get information list of lower-level organizations by parent organization; call [**POST /artemis/api/resource/v1/org/orgList**](#) to get information list of all organizations; call [**POST /artemis/api/resource/v1/org/advance/orgList**](#) to search for organizations by condition.

With the organization ID, call [***POST /artemis/api/resource/v1/org/orgIndexCode/orgInfo***](#) to get information of a single organization.

4. (Optional) Call [***POST /artemis/api/resource/v1/org/single/delete***](#) / [***POST /artemis/api/resource/v1/org/single/update***](#) to delete/edit organization information.

Manage Persons

The person management includes the management of person's basic information, face pictures, fingerprints, custom information, etc.

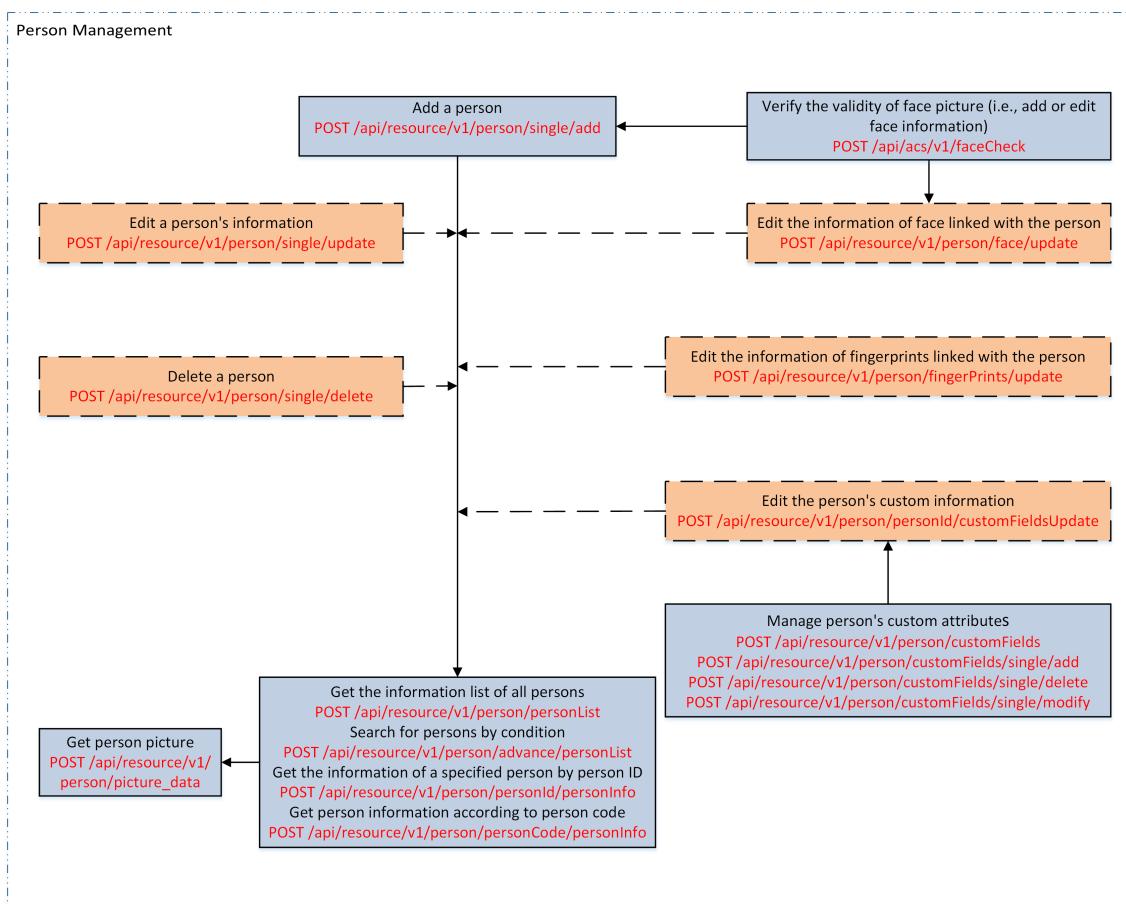


Figure 4-7 API Calling Flow of Managing Persons

Function	API
Get persons' information	<i>POST /artemis/api/resource/v1/person/personList</i>
Get a person's information by person ID	<i>POST /artemis/api/resource/v1/person/personId/personInfo</i>

Function	API
Search for persons by condition	<code>POST /artemis/api/resource/v1/person/advance/personList</code>
Get person picture	<code>POST /artemis/api/resource/v1/person/picture_data</code>
Add a person	<code>POST /artemis/api/resource/v1/person/single/add</code>
Edit a person's information	<code>POST /artemis/api/resource/v1/person/single/update</code>
Delete a person	<code>POST /artemis/api/resource/v1/person/single/delete</code>
Edit information of face linked with person	<code>POST /artemis/api/resource/v1/person/face/update</code>
Edit information of fingerprint linked with person	<code>POST /artemis/api/resource/v1/person/fingerPrints/update</code>
Get person information according to person ID	<code>POST /artemis/api/resource/v1/person/personCode/personInfo</code>
Verify the validity of face picture	<code>POST /artemis/api/acs/v1/faceCheck</code>
Get the person's custom information	<code>POST /artemis/api/resource/v1/person/customFields</code>
Update the person's custom information	<code>POST /artemis/api/resource/v1/person/personId/customFieldsUpdate</code>
Add a custom field	<code>POST /artemis/api/resource/v1/person/customFields/single/add</code>
Delete a custom field	<code>POST /artemis/api/resource/v1/person/customFields/single/delete</code>
Edit the custom field	<code>POST /artemis/api/resource/v1/person/customFields/single/modify</code>

1. Call [`POST /artemis/api/resource/v1/person/single/add`](#) to add persons to the organization.
2. Call [`POST /artemis/api/resource/v1/person/personList`](#) or [`POST /artemis/api/resource/v1/person/advance/personList`](#) to get the person information list.
3. Call [`POST /artemis/api/resource/v1/person/picture_data`](#) to get the person's face picture.
4. Call [`POST /artemis/api/resource/v1/person/personId/personInfo`](#) to get the person details by person ID, or call [`POST /artemis/api/resource/v1/person/personCode/personInfo`](#) to get the person details by person No.
5. (Optional) Delete/edit persons as needed. Call [`POST /artemis/api/resource/v1/person/single/delete`](#) or [`POST /artemis/api/resource/v1/person/single/update`](#) to delete/edit person's information (person No., name, gender, employee No., organization, phone No., email, face picture, fingerprint, card, and validity).

6. (Optional) Edit face picture as needed. Call [***POST /artemis/api/acs/v1/faceCheck***](#) to verify the face picture data, and then call [***POST /artemis/api/resource/v1/person/face/update***](#) to update the face picture information.
7. (Optional) Edit fingerprint information as needed. Call [***POST /artemis/api/resource/v1/person/fingerPrints/update***](#) to update the fingerprint information.
8. (Optional) Edit custom information as needed. Call [***POST /artemis/api/resource/v1/person/personId/customFieldsUpdate***](#) to update the custom attributes of a specific person.
9. Call [***POST /artemis/api/resource/v1/person/customFields***](#) to get the list of custom fields, and call [***POST /artemis/api/resource/v1/person/customFields/single/add***](#) , [***POST /artemis/api/resource/v1/person/customFields/single/delete***](#) , or [***POST /artemis/api/resource/v1/person/customFields/single/modify***](#) to add, delete, or edit the custom field for attribute management.
10. Call [***POST /artemis/api/resource/v1/person/qrcodeconfig/get***](#) / [***POST /artemis/api/resource/v1/person/qrcodeconfig/update***](#) to get/set person's QR code configuration.
11. Call [***POST /artemis/api/resource/v1/person/staticqrcode/get***](#) / [***POST /artemis/api/resource/v1/person/dynamicqrcode/get***](#) to get person's static/dynamic QR code.

Manage Vehicles

The vehicle management includes managing vehicle lists and blocklists, for parking lot service configuration.

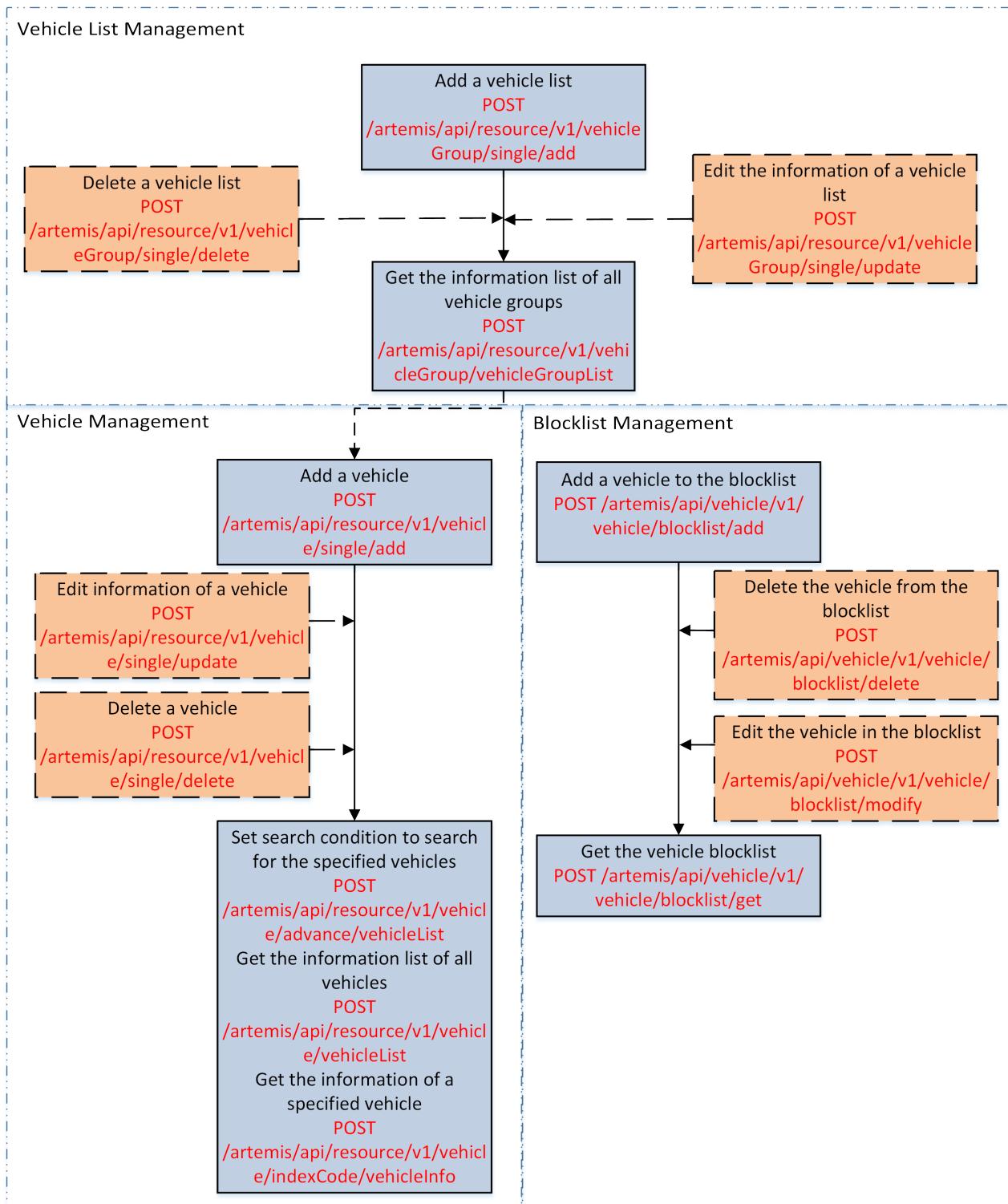


Figure 4-8 API Calling Flow of Managing Vehicles

Vehicle List Management

Function	API
Add a vehicle list	<code>POST /arTEMIS/api/resource/v1/vehicleGroup/single/add</code>
Delete a vehicle list	<code>POST /arTEMIS/api/resource/v1/vehicleGroup/single/delete</code>
Edit a vehicle list's information	<code>POST /arTEMIS/api/resource/v1/vehicleGroup/single/update</code>
Get the list of vehicle lists	<code>POST /arTEMIS/api/resource/v1/vehicleGroup/vehicleGroupList</code>

1. Call [`POST /arTEMIS/api/resource/v1/vehicleGroup/single/add`](#) to add a vehicle list.
2. (Optional) Call [`POST /arTEMIS/api/resource/v1/vehicleGroup/single/delete`](#) or [`POST /arTEMIS/api/resource/v1/vehicleGroup/single/update`](#) to delete or edit the vehicle list.
3. Call [`POST /arTEMIS/api/resource/v1/vehicleGroup/vehicleGroupList`](#) to get the list of vehicle lists.

Vehicle Management

Function	API
Add a vehicle	<code>POST /arTEMIS/api/resource/v1/vehicle/single/add</code>
Delete a vehicle	<code>POST /arTEMIS/api/resource/v1/vehicle/single/delete</code>
Edit a vehicle's information	<code>POST /arTEMIS/api/resource/v1/vehicle/single/update</code>
Get the list of all vehicles.	<code>POST /arTEMIS/api/resource/v1/vehicle/vehicleList</code>
Search for vehicles by condition	<code>POST /arTEMIS/api/resource/v1/vehicle/advance/vehicleList</code>
Get a vehicle's information by vehicle ID	<code>POST /arTEMIS/api/resource/v1/vehicle/indexCode/vehicleInfo</code>

1. Call [`POST /arTEMIS/api/resource/v1/vehicle/single/add`](#) to add a vehicle to the vehicle list.
2. (Optional) Call [`POST /arTEMIS/api/resource/v1/vehicle/single/delete`](#) or [`POST /arTEMIS/api/resource/v1/vehicle/single/update`](#) to delete or edit the vehicle.
3. Call [`POST /arTEMIS/api/resource/v1/vehicle/vehicleList`](#) to get the list of all vehicles; call [`POST /arTEMIS/api/resource/v1/vehicle/advance/vehicleList`](#) to search for vehicles by condition; call [`POST /arTEMIS/api/resource/v1/vehicle/indexCode/vehicleInfo`](#) to get information of a specific vehicle.

Vehicle Blocklist Management

Function	API
Add a vehicle blocklist	<code>POST /artemis/api/vehicle/v1/vehicle/blocklist/add</code>
Delete a vehicle blocklist	<code>POST /artemis/api/vehicle/v1/vehicle/blocklist/delete</code>
Edit a vehicle blocklist's information	<code>POST /artemis/api/vehicle/v1/vehicle/blocklist/modify</code>
Get the vehicle blocklist	<code>POST /artemis/api/vehicle/v1/vehicle/blocklist/get</code>

1. Call [`POST /artemis/api/vehicle/v1/vehicle/blocklist/add`](#) to add a vehicle blocklist.
2. (Optional) Call [`POST /artemis/api/vehicle/v1/vehicle/blocklist/delete`](#) or [`POST /artemis/api/vehicle/v1/vehicle/blocklist/modify`](#) to delete or edit the vehicle blocklist.
3. Call [`POST /artemis/api/vehicle/v1/vehicle/blocklist/get`](#) to get the vehicle blocklist.

Wake Up Device

Wake up solar devices.

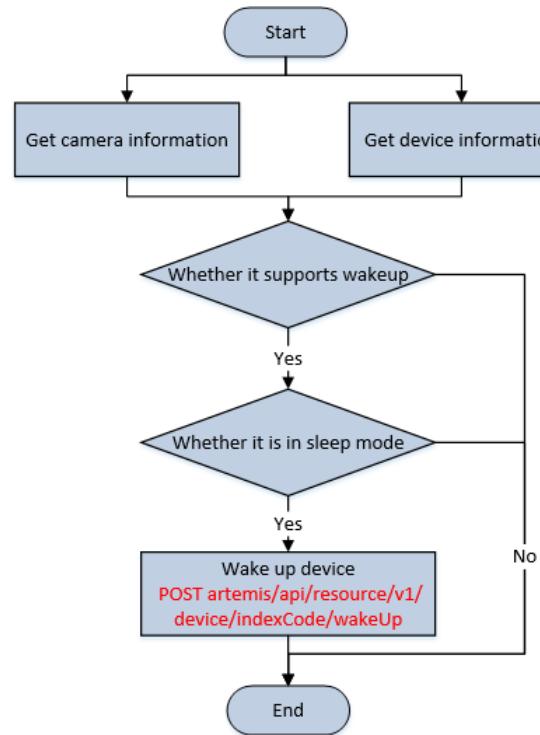


Figure 4-9 API Calling Flow of Waking Up Device

1. Call **Table 4-1** APIs and **Table 4-9** APIs to get the information of encoding device and camera.
2. Check if the device supports the wakeup function according to **isSupportWakeUp** from the obtained device information.
3. Check if the device is in sleep mode according to **wakeUpStatus** from the obtained device information.
4. If the device supports wakeup function and is in sleep mode, call **[POST /artemis/api/resource/v1/device/indexCode/wakeUp](#)** to wake it up.

4.2.3 Restrictions and Suggestions

1. When getting the resource list, set the number of records per page as large as possible (max. 500) to avoid API calling frequency for higher search efficiency; it is recommended to pull the data once and store it in the third-party platform instead of frequently pulling the data if there is no change on devices (adding, editing, or deleting).
2. If getting the recording settings is not required for APIs of getting camera lists, you can set **bRecordSetting** to 0 for faster search.
3. On the third party client, if it is a solar camera channel with reconnecting mechanism, the reconnecting mechanism should be disabled first. Users will be prompted to manually click to wake up device and start live view, so that the solar camera streaming is not repeatedly triggered during auto-switch and the camera can go to sleep as scheduled.

4.3 Event and Alarm

4.3.1 Capability Description

Event is a signal that resource (e.g., camera, device, server) sends when something occurs, while alarm is used to notify security personnel of the particular situation which helps handle the situation promptly. To receive alarm or event information, you should first subscribe to event types or alarm categories. When the subscribed type or category of event occurs or alarm is triggered, the platform or service will automatically upload the related information to the caller for processing or acknowledgment.

Capabilities provided:

1. Event subscription: You can subscribe to events by event type or cancel the subscription as needed.
2. Real-time event push: Callback addresses in both HTTP and HTTPS format are supported.
3. Event and alarm search / picture download: You can search for event and alarm records, and download relevant pictures.
4. Generic event rule and alarm configuration.

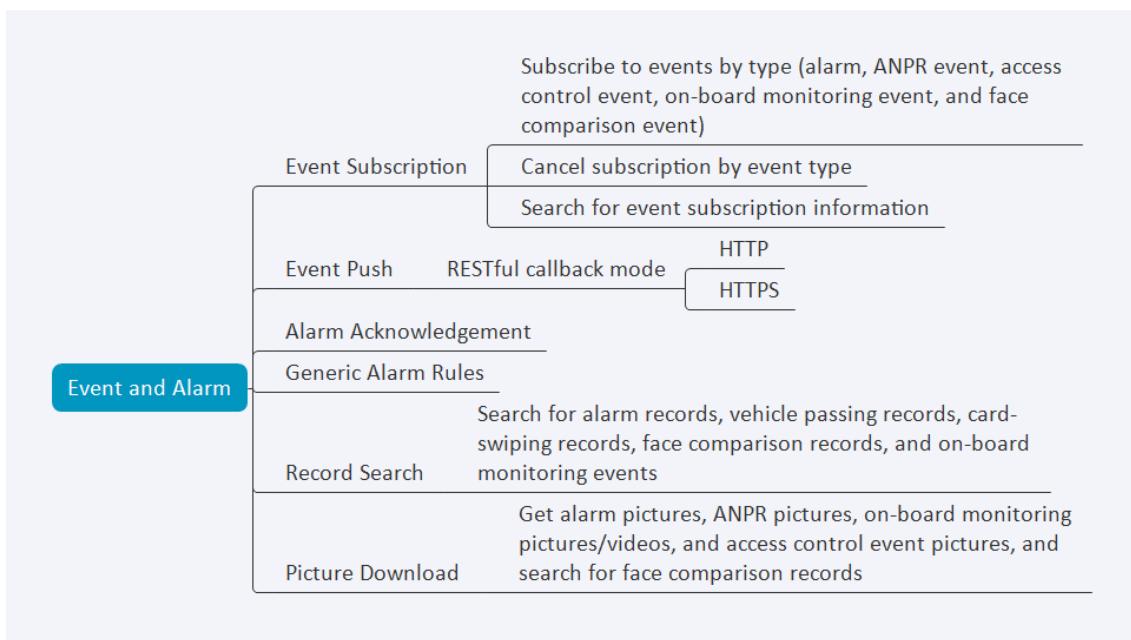


Figure 4-10 Event and Alarm Capability Directory

4.3.2 Programming Guide

1. Start the HTTP service and map the API of the URL.
2. Call ***POST /artemis/api/eventService/v1/eventSubscriptionByEventTypes*** for subscribing to events and specify the URL for event push.
3. After the subscribed event is triggered, the service calls the specified event push URL to push the event.
4. Receive events and process them asynchronously (to handle the events independently, not directly in the API).
5. Return results.

Also, refer to ***Event Message Format***.

Subscribe to and Push Events

Steps

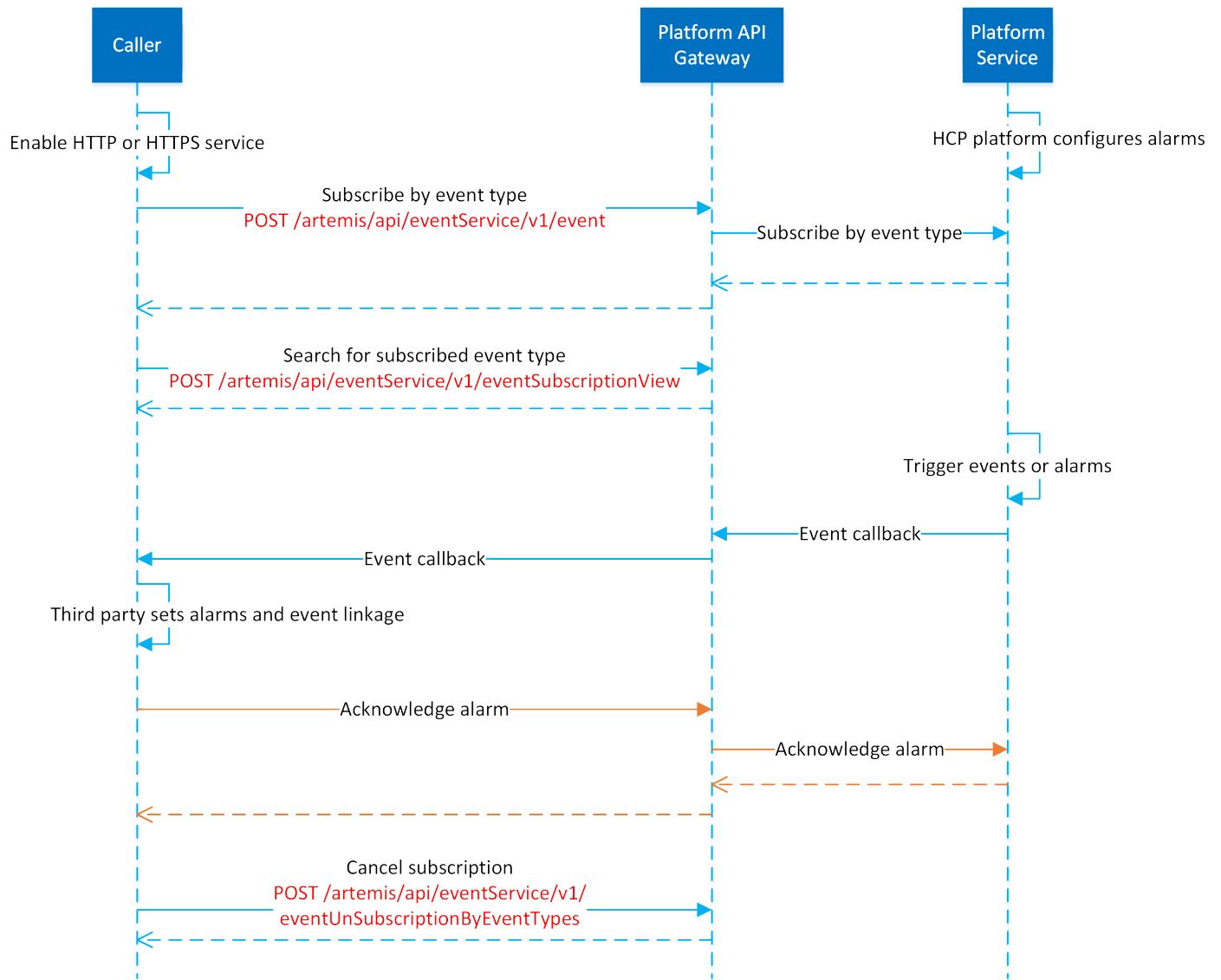


Figure 4-11 API Calling Flow of Subscribing to and Pushing Events

1. Enable HTTP or HTTPS service for receiving events.
2. **Optional:** Call `POST /artemis/api/eventService/v1/deviceApplicationEvent` to search for the list of AIOP event types when AIOP alarm subscription is needed.
3. Call `POST /artemis/api/eventService/v1/eventSubscriptionByEventTypes` to set event type or alarm category to subscribe.



Note

Multiple event types or alarm categories are available for subscription, refer to [Event Types or Alarm Categories](#) for details.

4. Call [POST /artemis/api/eventService/v1/eventSubscriptionView](#) to search for the subscribed events.
 5. When events are triggered, call back the HTTP or HTTPS event receiving API. The third-party can correspond according to the event/alarm types or resources from the callback message, e.g., triggering the camera capture, triggering the sounder alarm, controlling alarm output, or saving the record.
 6. **Optional:** Call [POST /artemis/api/eventService/v1/eventRecords/controlling](#) to acknowledge the alarm.
-



Note

The alarm or event receiving and alarm acknowledgment must be in different threads.

7. Call [POST /artemis/api/eventService/v1/eventUnSubscriptionByEventTypes](#) to specify the event types or alarm categories to cancel subscribing.
-



Note

Subscribed events will be re-subscribed if OpenAPI service exception occurs or the service is rebooted; events that failed to be pushed will be pushed again until it is successful, for every 24 hours.

Search for Events and Get Picture

You can search for the received alarms or events by some specific search conditions, such as event type, event source type, and start or end time. If there are pictures contained in the search results, you can get the picture URLs to download the pictures.

Before You Start

Make sure you have subscribed and received the alarms or events.

Steps

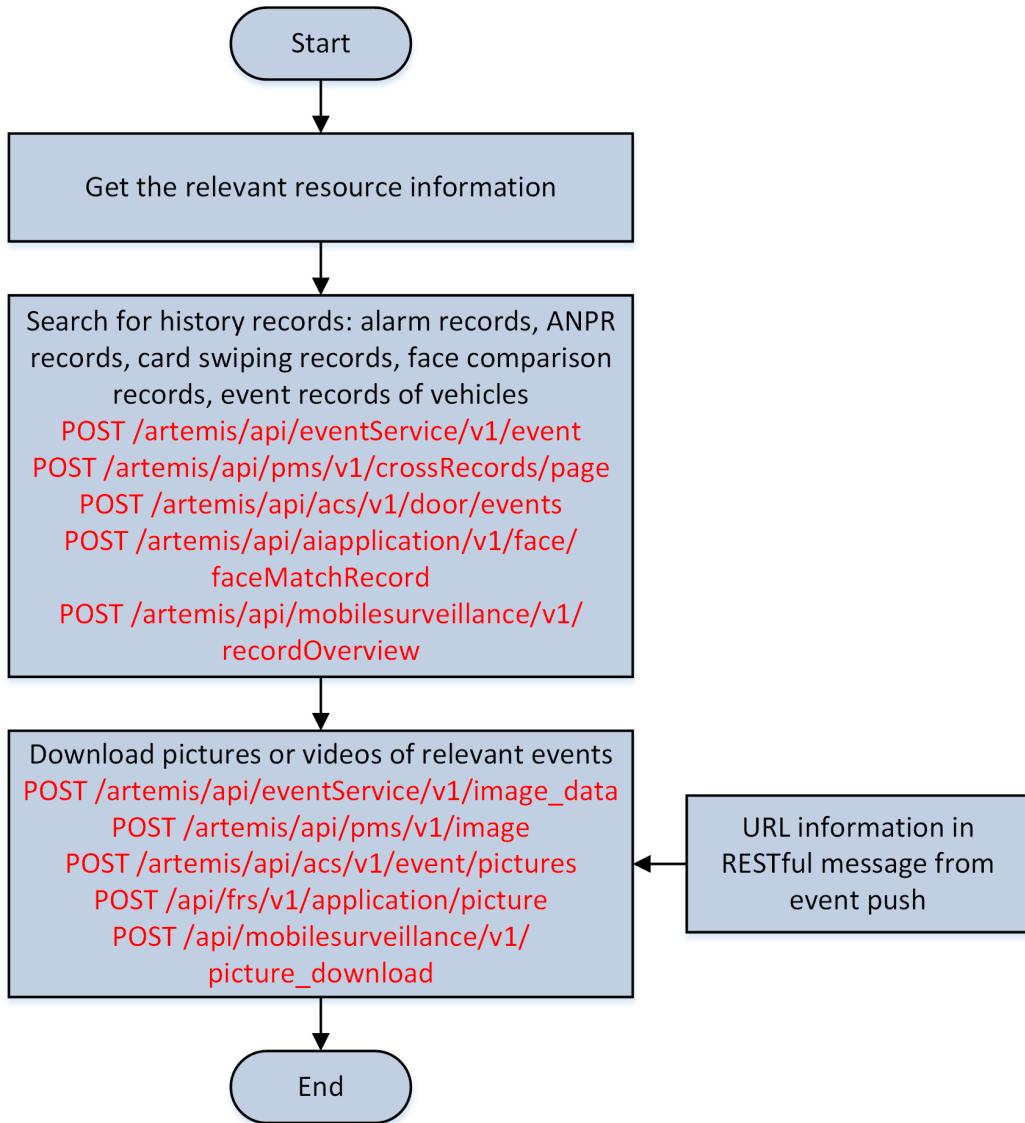


Figure 4-12 API Calling Flow of Searching for Events and Getting Pictures

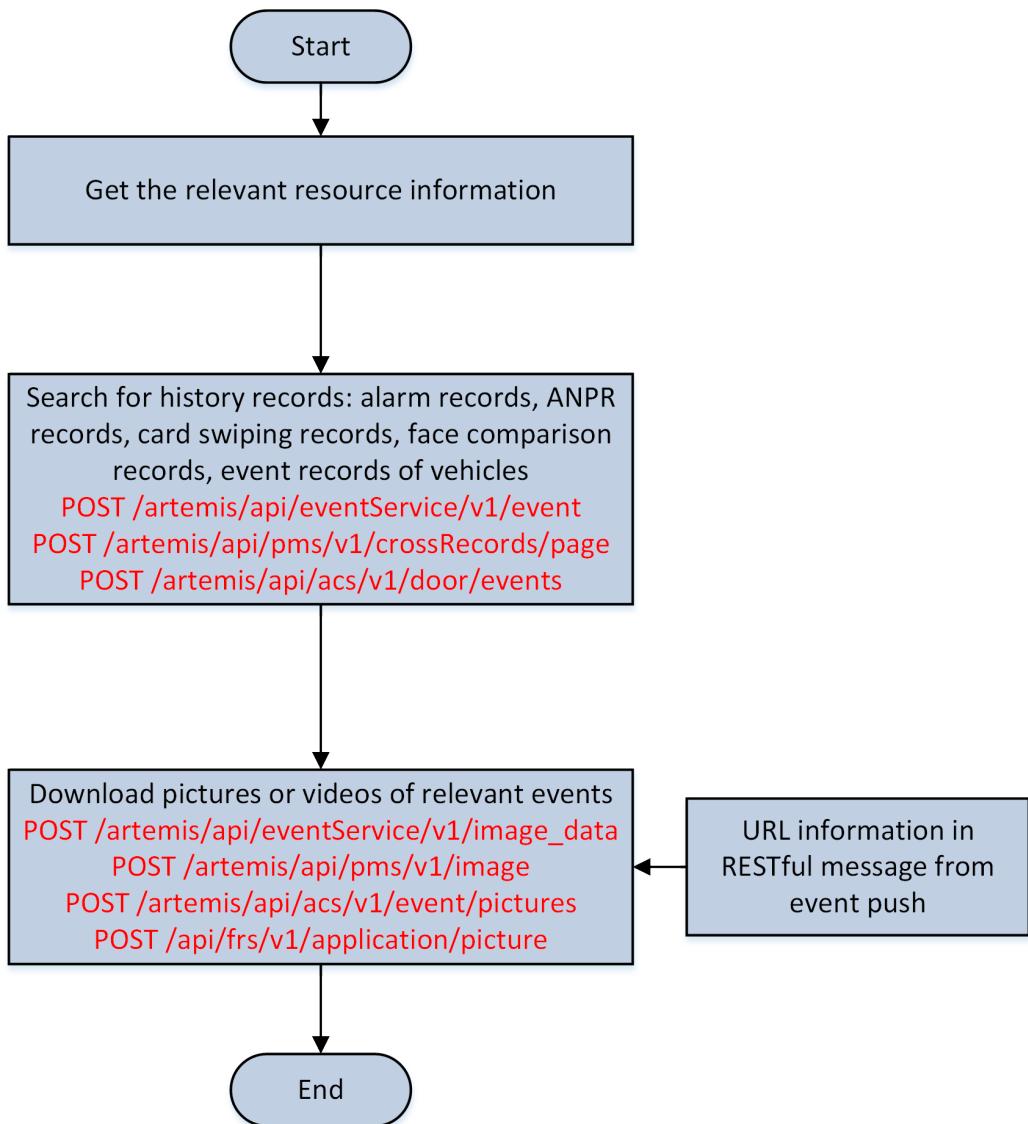


Figure 4-13 API Calling Flow of Searching for Events and Getting Pictures

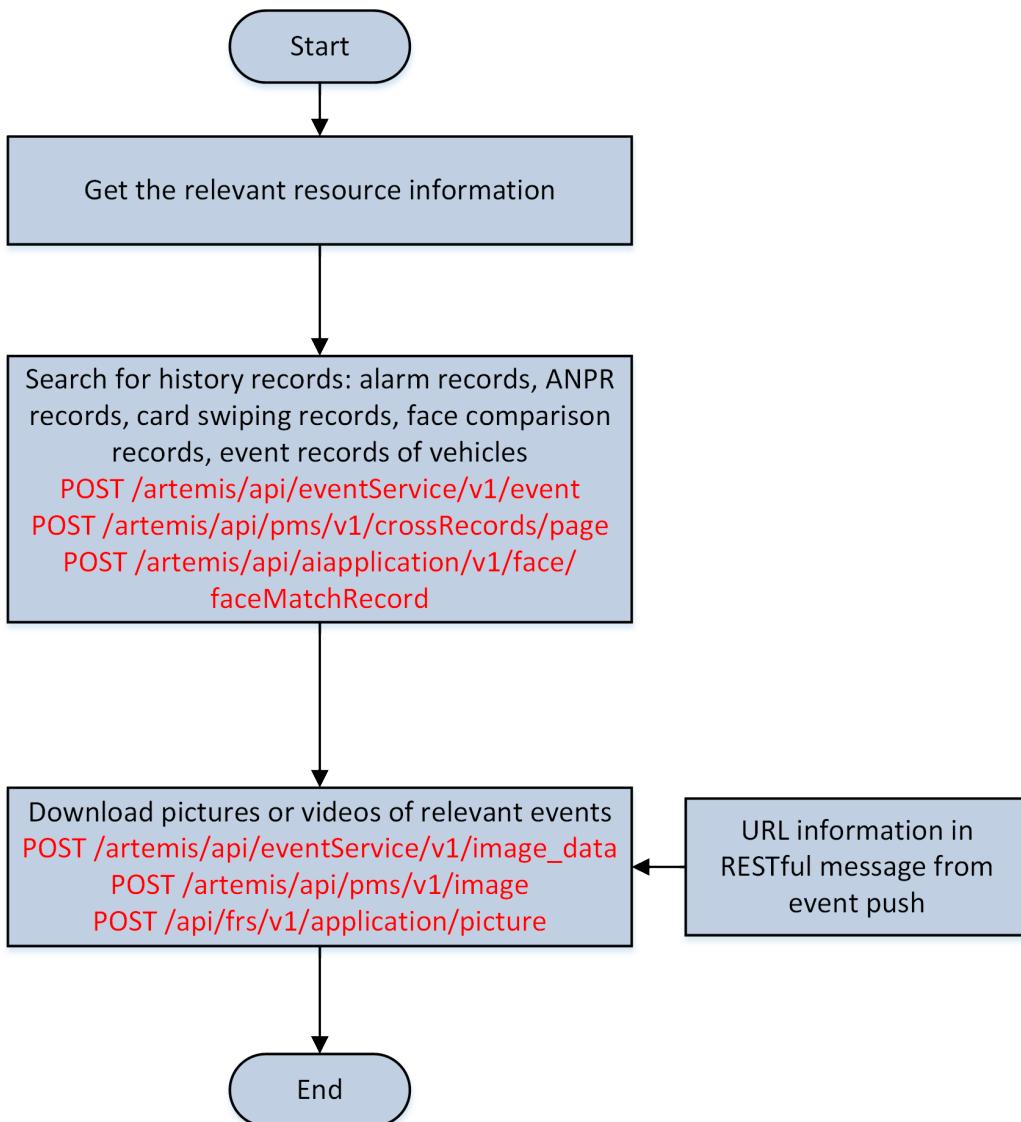


Figure 4-14 API Calling Flow of Searching for Events and Getting Pictures

1. Get related resources information, including cameras, encoding device, and access points, refer to **Resource Management** for details.
2. Call one of the following APIs to search for the corresponding records.
 - Call `POST /artemis/api/eventService/v1/eventRecords/page` to search for alarm records.
 - Call `POST /artemis/api/pms/v1/crossRecords/page` to search for ANPR records.
 - Call `POST /artemis/api/acs/v1/door/events` to search for card swiping records.
 - Call `POST /artemis/api/mobilesurveillance/v1/recordOverview` to search for on-board monitoring records.
 - Call `POST /artemis/api/aiapplication/v1/face/faceMatchRecord` to search for face picture comparison records.

3. Get the picture URL from the searched events and call one of the following APIs to download the corresponding picture.
- Call **`POST /artemis/api/eventService/v1/image_data`** to download the alarm picture according to the obtained picture URL.
 - Call **`POST /artemis/api/pms/v1/image`** to download the vehicle passing picture according to the obtained picture URL.
 - Call **`POST /artemis/api/acs/v1/event/pictures`** to download the access control event picture according to the obtained picture URL.
 - Call **`POST /artemis/api/mobilesurveillance/v1/picture_download`** to download the on-board monitoring event picture according to the obtained picture URL.
 - Call **`POST /artemis/api/frs/v1/application/picture`** to download the face picture according to the obtained picture URL.

Configure Generic Event Rules

Generic event is the signal that resource (e.g., other software, device) sends when something occurs, and can be received in the form of TCP or UDP data packages, where the system can analyze and generate events if they match configured expression. You can customize the expression to create a generic event to analyze the received TCP and/or UDP data packages, and trigger events when specified conditions are met. In this way, you can easily integrate your system with a very wide range of external sources, such as access control systems and alarm systems.

Steps

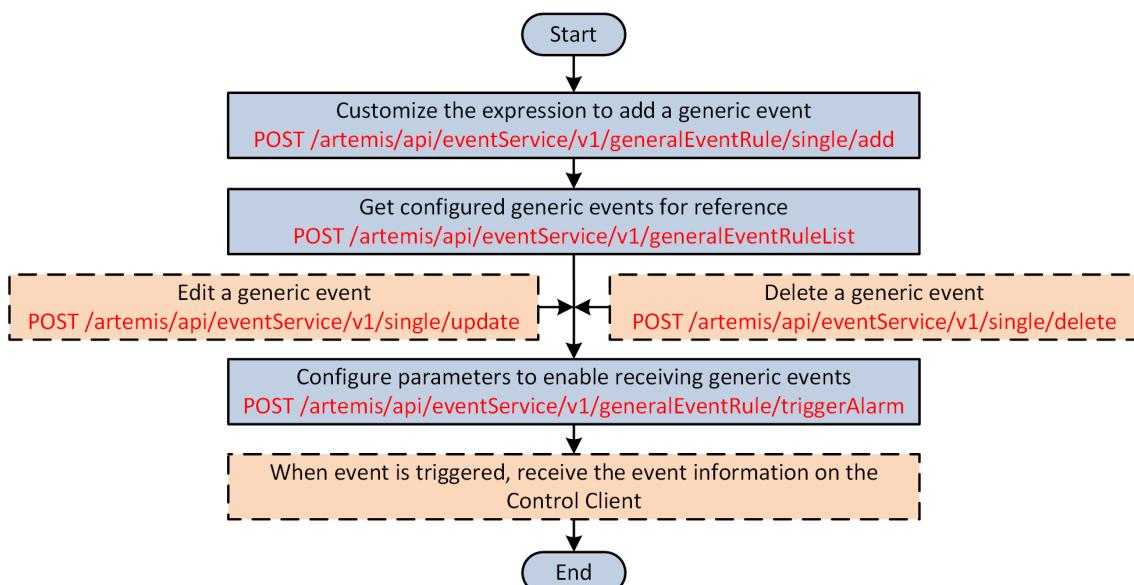


Figure 4-15 API Calling Flow of Configuring Generic Event

1. Call **`POST /artemis/api/eventService/v1/generalEventRule/single/add`** to customize the expression to add a generic event.

2. Call [**POST /artemis/api/eventService/v1/generalEventRule/generalEventRuleList**](#) to get all configured generic events.
3. **Optional:** Call the following API(s) after adding a generic event.

Edit a generic event [**POST /artemis/api/eventService/v1/generalEventRule/single/update**](#)

Delete a generic event [**POST /artemis/api/eventService/v1/generalEventRule/single/delete**](#)

4. Call [**POST /artemis/api/eventService/v1/generalEventRule/triggerAlarm**](#) to enable receiving generic events.
5. **Optional:** When event is triggered, receive the generic event information on the Control Client.

4.3.3 Restrictions and Suggestions

1. It is recommended to call the APIs of event receiving asynchronously and only use them for receiving events; for processing events, it is recommended to perform it asynchronously.
2. The status code 200 should be returned after event receiving, or the openAPI platform will consider the event push failed.

4.4 Video Application

4.4.1 Integration Scenario

The video application integration development is a very common integration module in the third party integration scenario. The involved types of third party platforms are usually national-level third party platform (to integrate all video streams from the lower-level platform for central management, e.g., live view, storage, and stream analysis) and campus level user's individual third party platform (with other existing software application capabilities, to integrate the video capability of HIKVISION). The relevant functions to be integrated include live view, playback, download, PTZ control, intelligent recognition, picture capture, and tag search.

4.4.2 Capability Description

The video application and development includes video monitoring, video analysis, and other extension applications based on videos.

Capabilities provided:

1. Video streaming: Live view, playback, two-way audio, and video download.
2. PTZ Control: 3D operations (rotate camera, move focus, adjust focal length (zoom in/out), enlarge/reduce iris), jumping to preset, and starting patrol.
3. Intelligent Recognition: Search for matched faces / human bodies.

4. Picture capture by camera.
5. Person/Vehicle Tag Search: Get the tags of the person/vehicle-detected videos recorded by cameras.

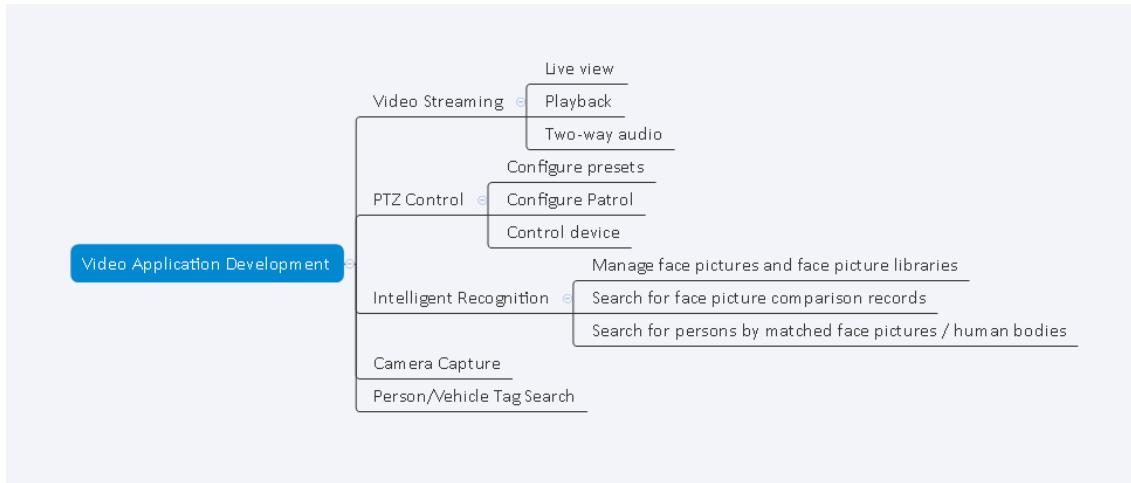


Figure 4-16 Video Capability Directory

4.4.3 Integration Process

For the third party project involving video application integration, the common integration method is as follows.

The third party platform integrates the HikCentral Professional platform via OpenAPI. The 3 types of video streaming integration are developing via SDK, developing via web plug-in, and developing via non-plug-in JsDecoder. After integration, live view, playback, download, picture capture, video tag search, PTZ control, etc. can be realized on the third party video monitoring platform.

For some third party users who require intelligent analysis of face/body, they can integrate the functions of adding face picture libraries and creating intelligent analysis tasks for searching for face/body events, thereby integrate the face/body application of its own.

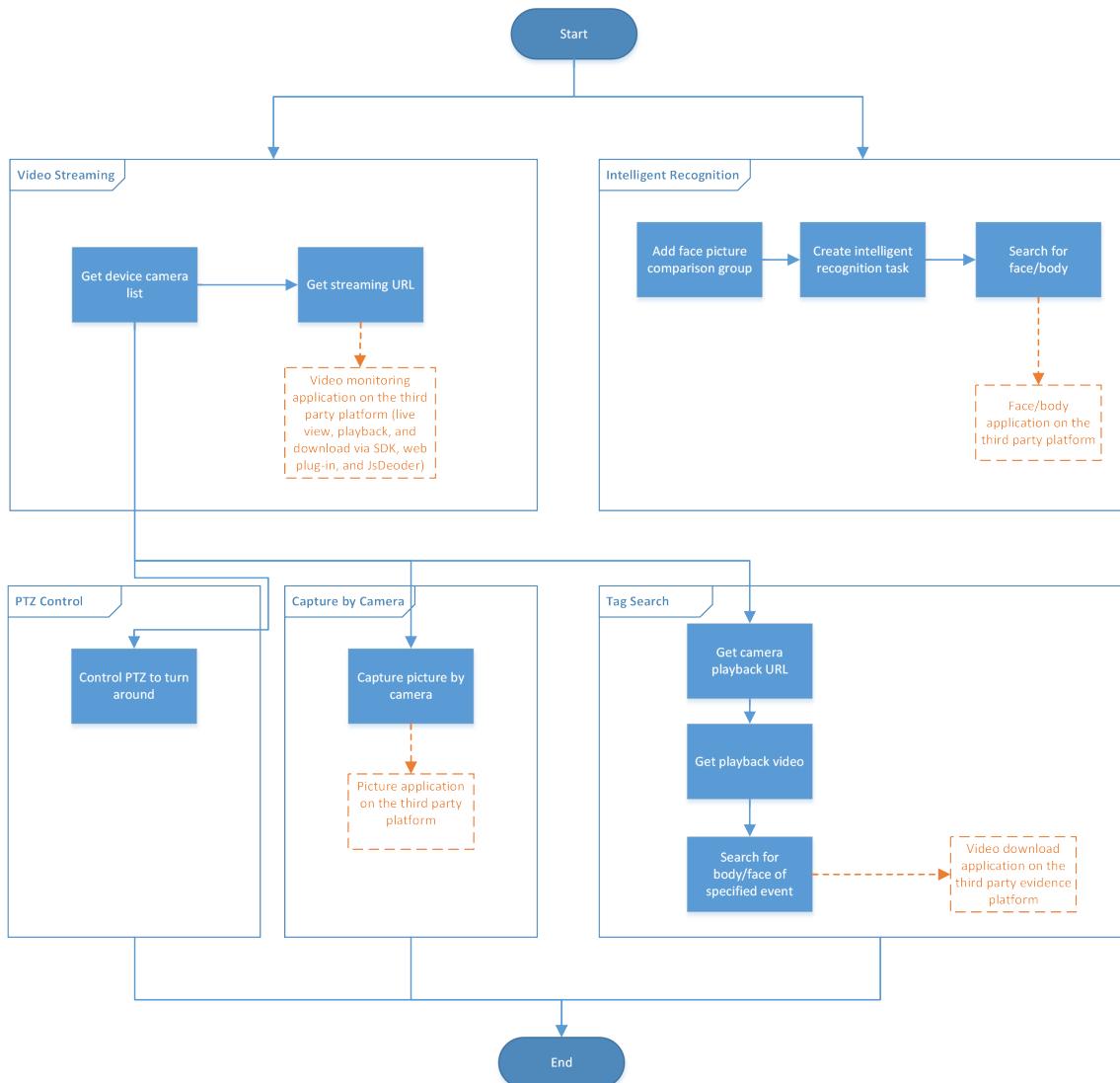


Figure 4-17 Integration Process of Video Application

4.4.4 Programming Guide

Video Streaming

You can get the video and audio stream, and download playback videos via standard RTSP, but cannot play the video or audio on the OpenAPI platform. Therefore, you must develop a player for live view, playback, and two-way audio in the Windows operating system, via the one of the following methods:

- APIs provided by C++ or C# language SDK via RTSP.
- Video plug-in developed on the web browser via RTSP.
- Non-plug-in solution of JsDecoder via WebSocket and WebSocket_S.
- Integration by standard open-source players via RTSP_S, RTMP or HLS protocols.

This developer guide compares the first 3 development methods on aspects including instructions for use, application scenarios, technical requirements, supported development language and operating system, etc. between the web client and control client, so that the caller can select an appropriate one as needed.

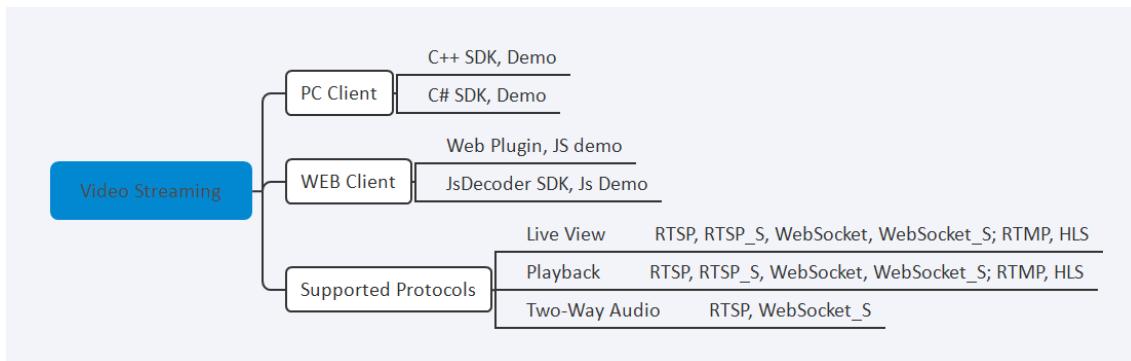


Figure 4-18 Video Streaming



The C++ or C# language SDK, web plug-in, and JsDecoder only supports Windows operating system. And the SDK can implement the functions of live view, playback, PTZ control, capturing, stream callback, and so on, while the web plug-in and JsDecoder only provide live view and playback functions. Refer to the *VMSPlatform Video SDK (C++) Developer Guide*, *VMSPlatform Video SDK (C#) Demo User Manual*, *VMSPlatform Video WebSDK Developer Guide*, and *VMSPlatform Video JsDecoder SDK Developer Guide* for details.

Develop via C++/C# SDK

Development via SDK (i.e., a full set of C++ and C# SDK APIs provided) realizes functions including live view, playback, PTZ control, picture capture, stream data callback, etc., and is only supported in the Windows operating system. For specific functions, refer to *VMSPlatform Video SDK (C++) Developer Guide* and *VMSPlatform Video SDK (C#) Demo User Manual*.

Example Application Scenarios

1. To reduce the limitations of video playing control (e.g., lack of functions, unfriendly UI.), you can call the APIs to develop the display window.
2. The original video stream is required for other services (displaying on video wall, intelligent analysis, etc.).

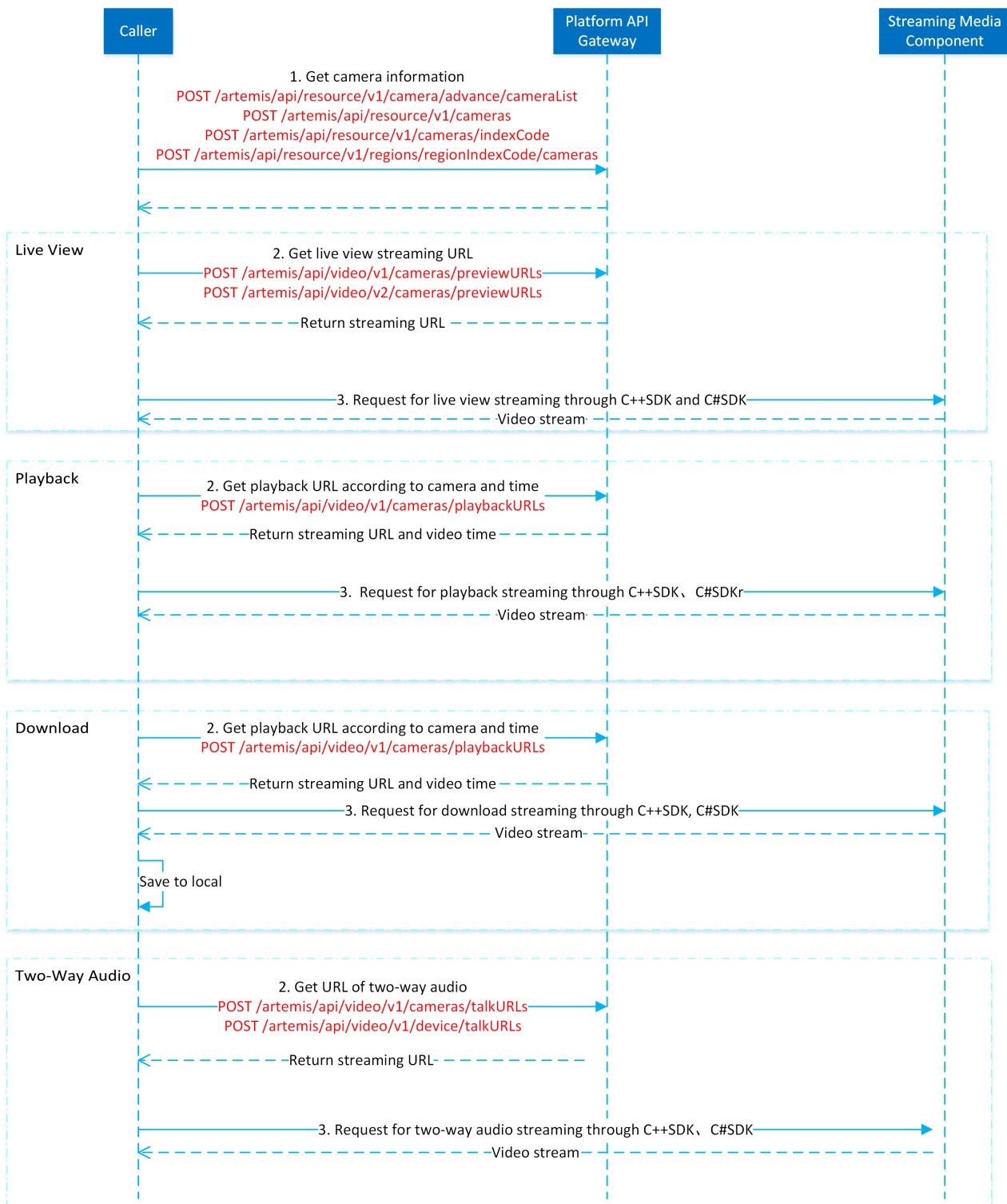


Figure 4-19 API Calling Flow of Developing via C++/C# SDK

1. Call [POST /arTEMIS/api/resource/v1/camera/advance/cameraList](#) , [POST /arTEMIS/api/resource/v1/cameras](#) , [POST /arTEMIS/api/resource/v1/cameras/indexCode](#) , and [POST /arTEMIS/api/resource/v1/regions/regionIndexCode/cameras](#) to get the camera information and recording settings.
2. Call [POST /arTEMIS/api/video/v1/cameras/playbackURLs](#) to get the playback URL and recording time; call [POST /arTEMIS/api/video/v1/cameras/previewURLs](#) or [POST /arTEMIS/api/video/v2/cameras/previewURLs](#) to get the live view URL; call [POST /arTEMIS/api/video/v1/cameras/talkURLs](#) or [POST /arTEMIS/api/video/v1/device/talkURLs](#) to get the two-way audio URL.
3. Introduce C++ and C# SDK, and call the corresponding APIs of SDK to complete the secondary development. The development documents of SDK are provided separately.

Note

1. Cameras resource information should be recorded and live view / playback should be configured on the platform, as the relevant APIs are not available for now.
 2. Development language: C++ and C#; operating system: Microsoft Windows server 2008 or above.
-

Develop via Web Plug-In

Developing via the web video plug-in (VideoWebPlugin) is applicable for web video application development across browsers, which provides functions including live view, playback, etc. After HCVideoSDKWebControl.exe is installed, HCVideoSDKWebControlService.exe will be run by the system automatically and interact with jsWebControl-1.0.0.min.js, to realize various video functions.

Running Environment

32/64-bit Windows 7: 32-bit IE 10 (compatible with 64-bit IE 10; 32-bit IE 10 will be started by default in 64-bit IE 10 environment), 32/64-bit IE 11, 32/64-bit Chrome 45.0 or above, 32/64-bit Firefox 52.0 or above.

32/64-Bit Windows 10: 32/64-bit IE 11, 32/64-bit Chrome 45.0 or above, 32/64-bit Firefox 51.0 or above.

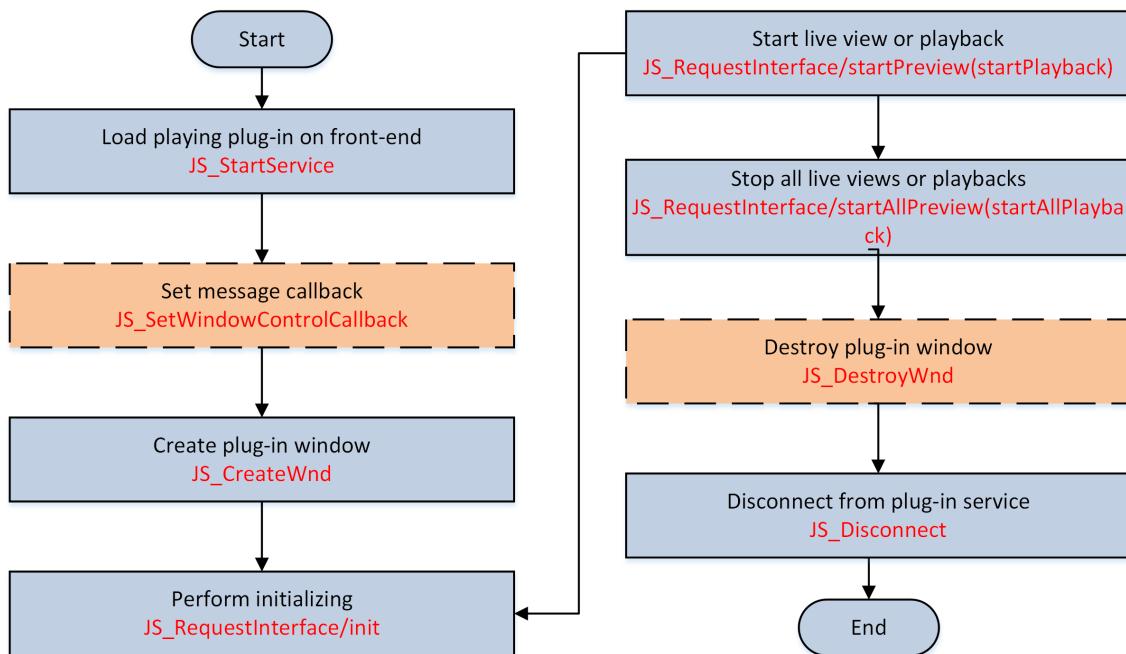


Figure 4-20 API Calling Flow of Developing via Web Plug-In

Install the plug-in package HCVideoSDKWebControl.exe to the directory Program Files \HCVideoSDKWebControl (install directly, extracting or running extracted executable file not recommended).



1. Generally, calling JS_DestroyWnd to destroy a plug-in window is not needed, since the window can be destroyed internally by JS_Disconnect. In some cases, however, calling this interface is needed. For example, when a browser needs to enable and disable playing video at any time, you can call JS_DestroyWnd to destroy the plug-in window and disable playing, and call JS_CreateWnd to enable playing video. JS_DestroyWnd and JS_Disconnect will deinitialize the plug-in, thus calling JS_RequestInterface/uninit for deinitializing is not needed.
2. Touchscreen Windows operating system is not fully tested, thus not recommended.
3. Currently div tags must be used cooperatively. The iframe or browser pop-up methods are not supported.

Develop via Non-Plug-In JsDecoder

Running Environment

32/64-Bit Windows 7/8/10: 32/64-bit Chrome 45.0 or above, 32/64-bit Firefox 52.0 or above.
The API calling flow for download solution of non-plug-in is shown below:



See details of the live view / playback and two-way audio solutions in *VMSPlatform Video JsDecoder SDK_Developer Guide*.

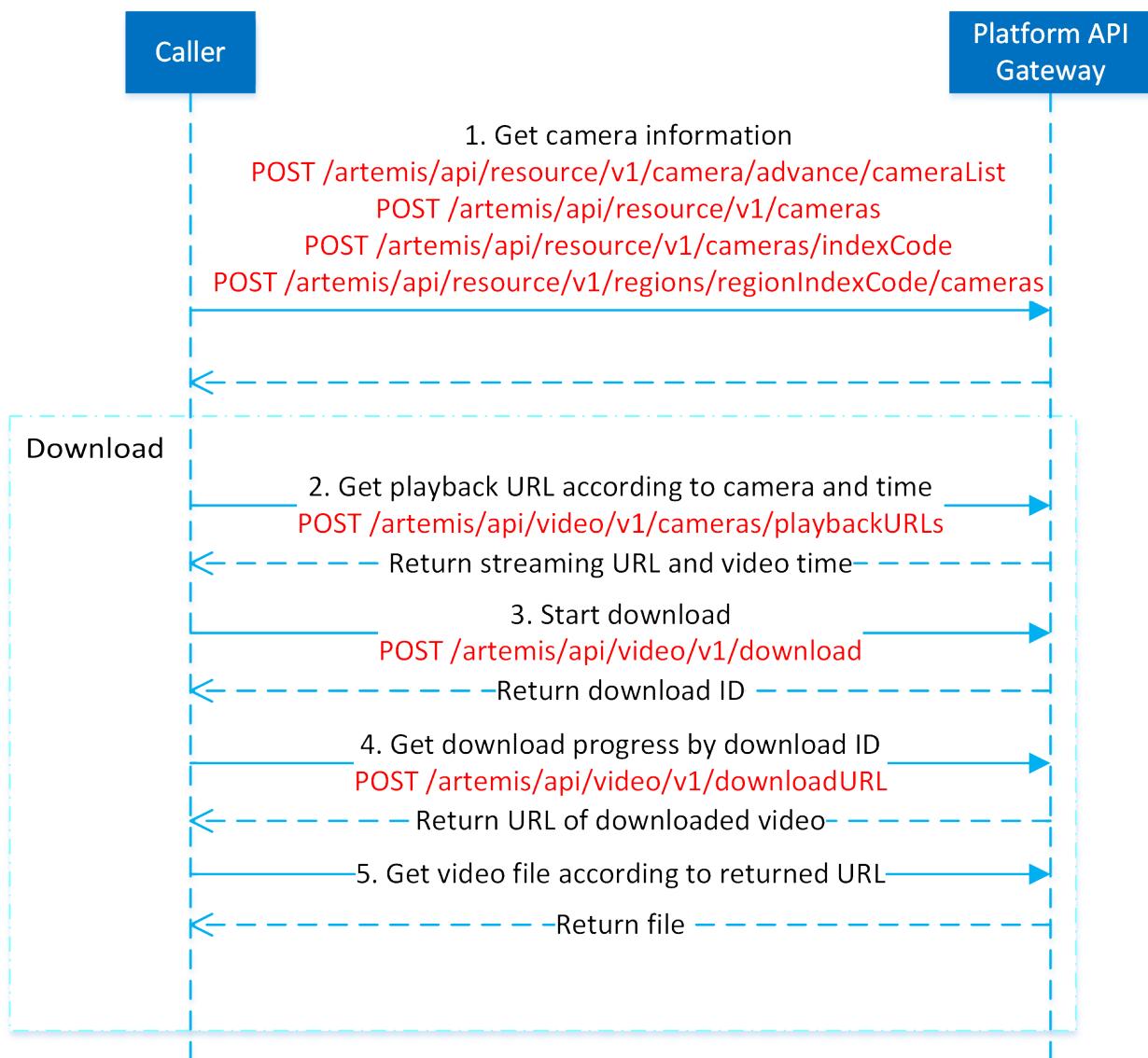


Figure 4-21 API Calling Flow of Developing via Non-Plug-In JsDecoder

1. Call [POST /artemis/api/resource/v1/camera/advance/cameraList](#) , [POST /artemis/api/resource/v1/cameras](#) , [POST /artemis/api/resource/v1/cameras/indexCode](#) , and [POST /artemis/api/resource/v1/regions/regionIndexCode/cameras](#) to get the camera information and recording settings.
2. Call [POST /artemis/api/video/v1/cameras/playbackURLs](#) to get the playback URL and recording time.

3. Call **`POST /arTEMIS/api/video/v1/download`** to start download and get the download ID.
4. According to the returned download ID, call **`POST /arTEMIS/api/video/v1/downloadURL`** to get the download progress and URL of the downloaded file when the download is completed.
5. Get the downloaded file by the returned URL via web browser.

PTZ Control

After adding cameras and starting live view in VMSPlatform, you can call the APIs provided here to control PTZ, manage presets and patrols.

Steps

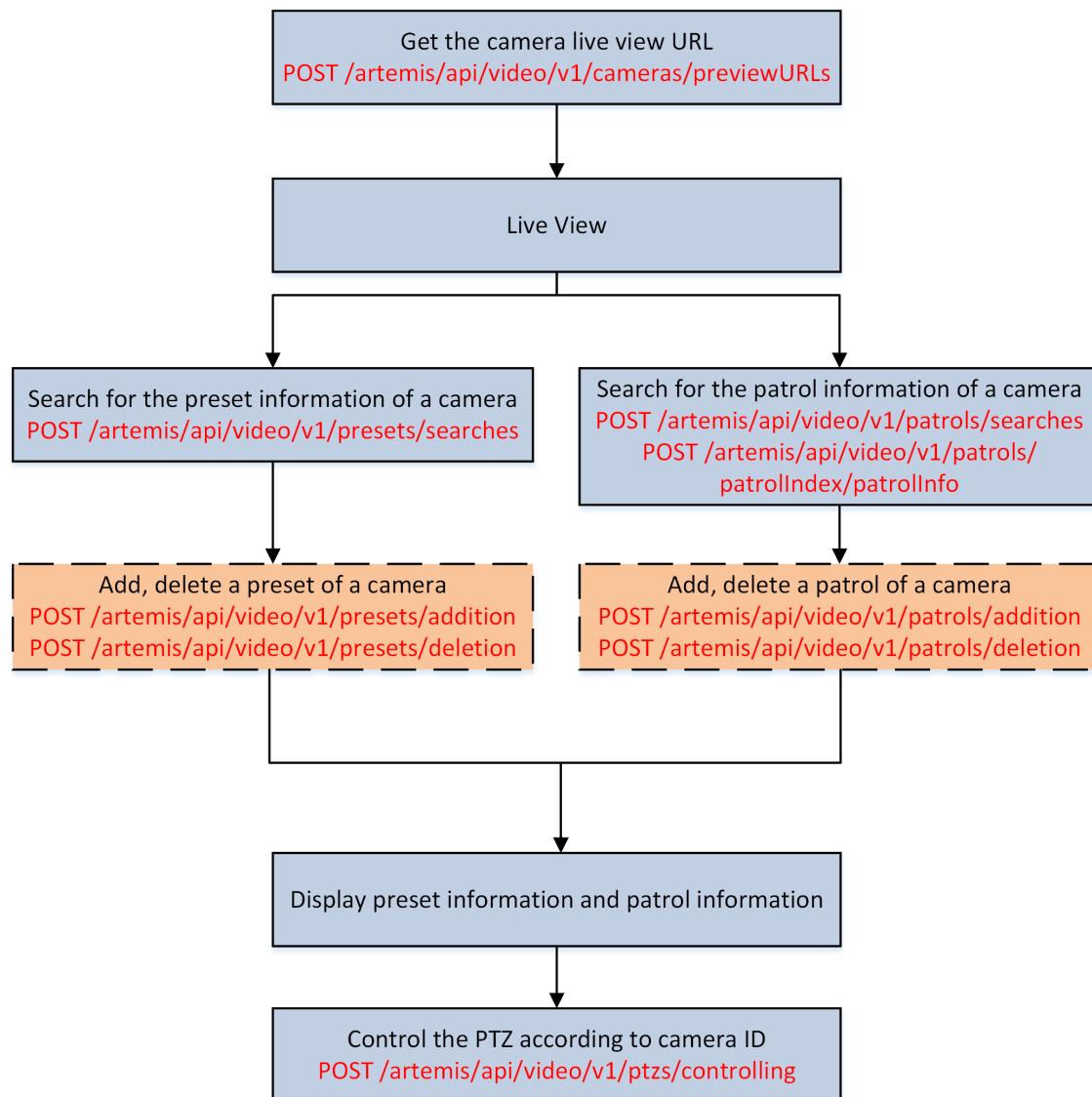


Figure 4-22 API Calling Flow of PTZ Control

1. Call [POST /arTEMIS/api/video/v1/cameras/previewURLs](#) to get the live view image.
2. Call [POST /arTEMIS/api/video/v1/presets/searches](#) to search for the preset list; call [POST /arTEMIS/api/video/v1/patrols/searches](#) to search for the patrol list.
3. Optional: Call [POST /arTEMIS/api/video/v1/presets/addition](#) and [POST /arTEMIS/api/video/v1/presets/deletion](#) to edit the preset information; call [POST /arTEMIS/api/video/v1/patrols/addition](#) and [POST /arTEMIS/api/video/v1/patrols/deletion](#) to edit the patrol information.
4. Call [POST /arTEMIS/api/video/v1/ptzs/controlling](#) to perform 3D operations (rotate camera, move focus, adjust focal length (zoom in/out), enlarge/reduce iris), and other operations including jumping to preset and starting patrol by camera No., preset No. and patrol No.

Intelligent Recognition

Intelligent recognition includes applications on searching for matched face pictures and human bodies.

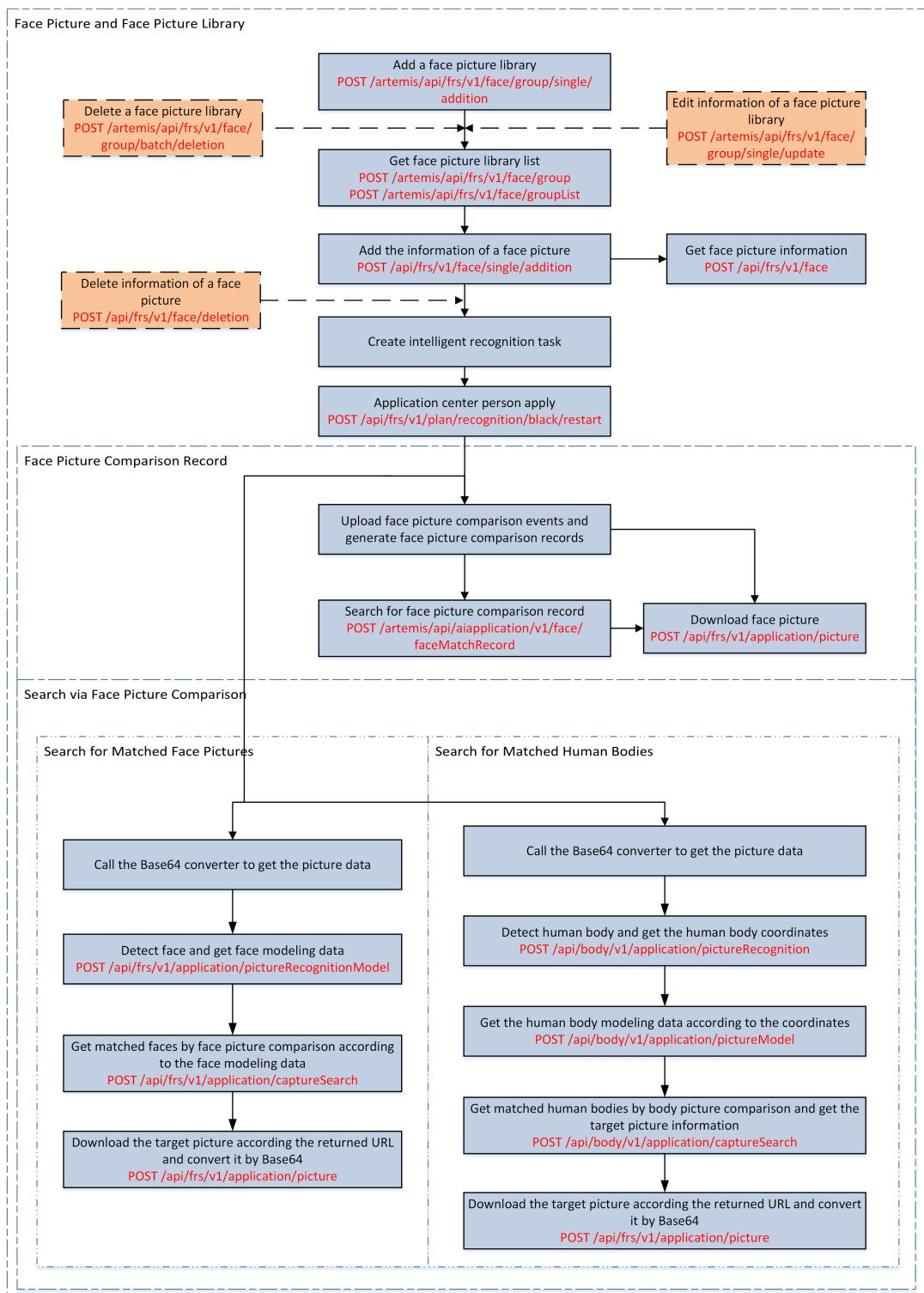


Figure 4-23 API Calling Flow of Intelligent Recognition

Manage Face Pictures and Face Picture Libraries

Steps

1. Call [**POST /artemis/api/frs/v1/face/group/single/addition**](#) to add a face picture library.
 2. Call [**POST /artemis/api/frs/v1/face/group**](#) or [**POST /artemis/api/frs/v1/face/groupList**](#) to get information of the face picture library.
 3. **Optional:** Call [**POST /artemis/api/frs/v1/face/group/single/update**](#) to edit information of a face picture library; call [**POST /artemis/api/frs/v1/face/group/batch/deletion**](#) to delete the face picture library.
 4. Call [**POST /artemis/api/frs/v1/face/single/addition**](#) to add information of a face picture to the face picture library.
-



Note

The face picture information can be added from existing persons. See details in [**Manage Persons**](#).

5. Call [**POST /artemis/api/frs/v1/face**](#) to get the face picture information by face picture library.
6. **Optional:** Call [**POST /artemis/api/frs/v1/face/deletion**](#) to delete the face picture information from the face picture library. If the face picture information is added from existing persons in the person management, you can choose to delete it from the organization.

Receive Face Picture Comparison Events and Search for Records

Steps

1. Create an intelligent recognition task on the HikCentral Professional platform first for face picture comparison event.
2. Call [**POST /artemis/api/frs/v1/plan/recognition/black/restart**](#) to apply the face picture library to device.
3. Refer to [**Programming Guide**](#) for the event receiving process; refer to [**Facial Events**](#) for specific event type enumerations.
4. Call [**POST /artemis/api/aiapplication/v1/face/faceMatchRecord**](#) to search for the face picture comparison records.
5. Call [**POST /artemis/api/frs/v1/application/picture**](#) to download face pictures from real-time face picture comparison events and face picture comparison record search.

Search for Persons by Matched Faces / Human Bodies

You can search for person by searching for matched faces / human bodies on Intelligent Fusion Server and DeepInMind NVR. The search for person function on Intelligent Fusion Server and DeepInMind NVR both relies on the intelligent recognition task, which should be created on the HikCentral Professional platform and applied to device.

Search for Matched Face

1. Call the Base64 converter to get the picture data.
2. Call [***POST /artemis/api/frs/v1/application/pictureRecognitionModel***](#) to detect and model faces in the picture.
3. Call [***POST /artemis/api/frs/v1/application/captureSearch***](#) to get matched faces by face picture comparison according to the face modeling data.
4. Call [***POST /artemis/api/frs/v1/application/picture***](#) to download the target picture according to the returned URL and convert it by Base64.

Search for Matched Human Body

1. Call the Base64 converter to get the picture data.
2. Call [***POST /artemis/api/body/v1/application/pictureRecognition***](#) to detect human body and get the human body coordinates.
3. Call [***POST /artemis/api/body/v1/application/pictureModel***](#) to get the human body modeling data according to the coordinates.
4. Call [***POST /artemis/api/body/v1/application/captureSearch***](#) to get matched human bodies by body picture comparison according to the modeling data, and get the target picture information.
5. Call [***POST /artemis/api/frs/v1/application/picture***](#) to download the target picture according to the returned URL and convert it by Base 64.

Camera Capture

Steps

Picture capture by camera is applicable to scenarios including but not limited to:

- a. You need to specify camera for capturing pictures for initial alarm reviewing, but picture capture is not configured for some events or alarms yet.
- b. You can configure scheduled tasks and specify camera of a certain area (e.g., rack, farm, and construction site) for capturing pictures, to observe changes of the area within a time period.
- c. Any other applicable scenarios you can think of.

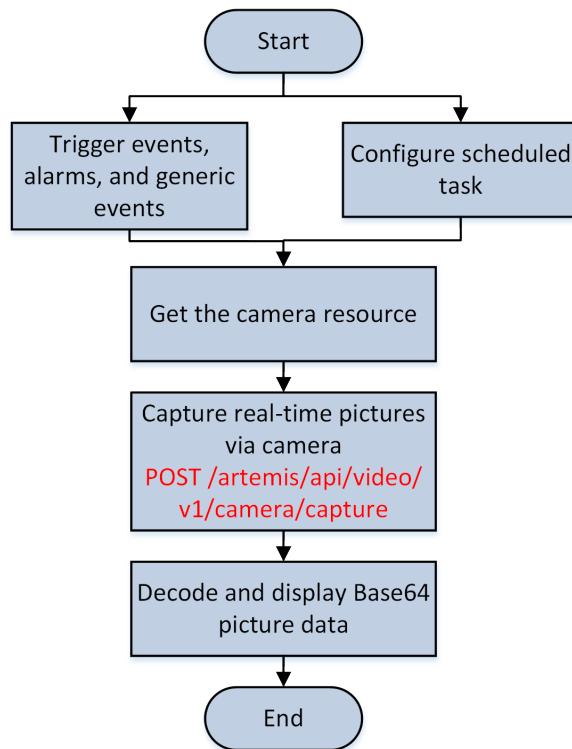


Figure 4-24 API Calling Flow of Camera Capture

1. The relevant alarms/events or scheduled tasks are triggered.
2. Get the corresponding camera resource information.
3. Call **`POST /artemis/api/video/v1/camera/capture`** to capture real-time pictures via camera, and decode and save the returned picture in base64 format.

Tag Search

Tag search is used to search for time periods when persons or vehicles are detected by camera. You can download the recording during the time period on your developed client as evidence.

Steps

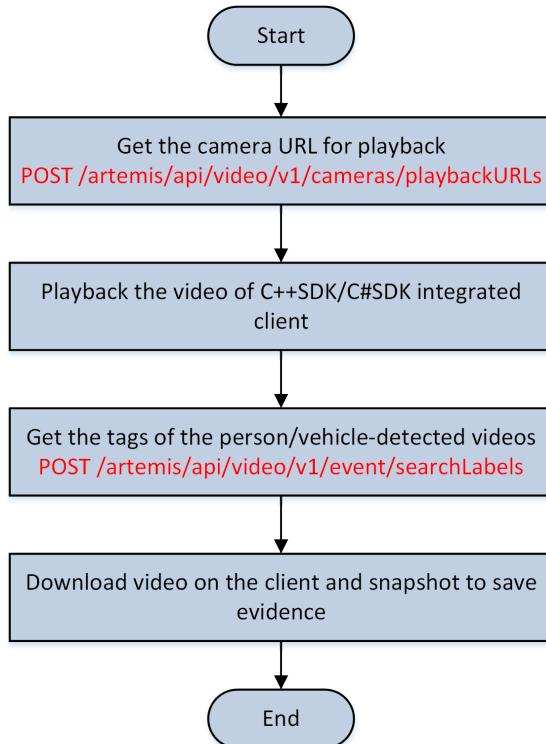


Figure 4-25 API Calling Flow of Tag Search

1. Get the playback URL and play back on your client developed via C++/C# SDK.
2. Call **POST /artemis/api/video/v1/event/searchLabels** to search for the tags of the person/ vehicle-detected videos and display the result on the playback progress bar.
3. Select a tag and download the video as evidence via C++/C# SDK.

4.4.5 Restrictions and Suggestions

1. As **POST /artemis/api/video/v1/ptzs/controlling** (PTZ control) is an asynchronous API, which requires a certain time for the interaction with device, it is recommended to lower the calling frequency according to the network status.
2. As the adding, deleting, and editing operation on presets and patrols also requires a certain time for the interaction with device, it is recommended to lower the calling frequency according to the network status.
3. **POST /artemis/api/video/v1/download** (recording download) only supports downloading recordings no longer than one minute; it is recommended to have no more than 50 concurrent channels; MP4 file downloading requires internal transcoding, which makes it slower than AVI file downloading.

4. It is recommended to call ***POST /artemis/api/video/v1/cameras/playbackURLs*** (playback URL search) synchronously. The time parameter in the request is the device time.
5. As the APIs of searching for matched faces / human bodies require interaction with device, it is recommended to call them concurrently.

4.5 Access Control

4.5.1 Integration Scenario

The third-party platform integrated with access control application is generally used in access and attendance scenes of the company group or the work unit institution, such as groups, companies, and government departments which use employee management platforms or attendance management software.

The main purpose is to realize two business applications: maintaining the original platform software for employee management, and obtaining employee check-in/out records for attendance calculation.

In order to maintain the employee management in the original platform software, the employees and organization relationship on the original platform should be synchronized to HikCentral Professional. According to the business layout, employees of different organizations will be assigned to the corresponding access control devices on HikCentral Professional, and the employees of the corresponding organizations will be granted the access level of the access control devices of the corresponding organizations.

After the person of the original platform are synchronized to HikCentral Professional and the connection between the employees of the corresponding organization and the access control devices is realized, the employees can swipe the card on the access control devices, and the access control devices can control the passing barrier gates. At the same time, HikCentral Professional can receive the employee check-in/out records and push the check-in/out records to the original client attendance management platform. The client platform can implement attendance calculation business based on the employee check-in/out records. For the attendance business scenes of the third party, some obtain the check-in/out records by synchronizing the access control records via database for attendance calculation.

4.5.2 Capability Description

The access control application provides the capability of person's access level management, real-time card-swiping event pushing and receiving, identity access search and picture download, and access point control.

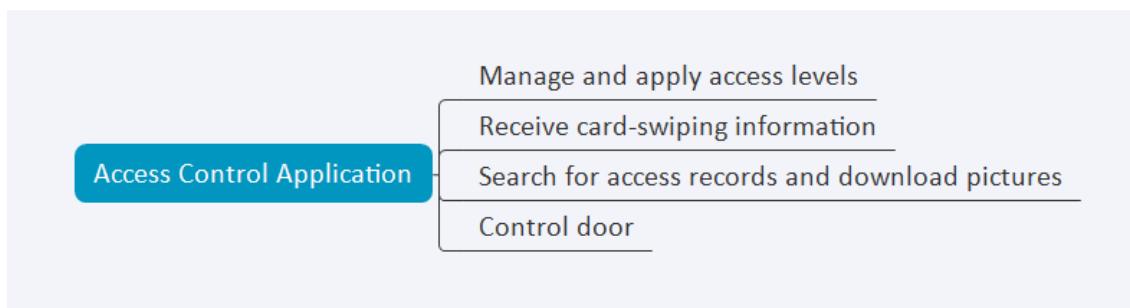


Figure 4-26 Directory of Access Control Capability Directory

4.5.3 Integration Process

Third-party integration projects involving the integration of access control application are generally integrated as shown in the following figure.

The third-party platform can synchronize the existing persons and organizations to HikCentral Professional through OpenAPI.

The third-party platform can obtain the access level list through OpenAPI, and further realize the empowered permission management of person through OpenAPI.

The third-party platform can obtain the list of gates and channels through OpenAPI, so that the maintenance and door control of its own platform can be realized.

The third-party platform can search for the person check-in/out records through OpenAPI, and pictures (MinMoe) can also be downloaded for review according to the person check-in/out events.

After subscribing to the access control event message, the third party can receive the person check-in/out and access control events in real time, and then the person attendance calculation can be realized based on this.

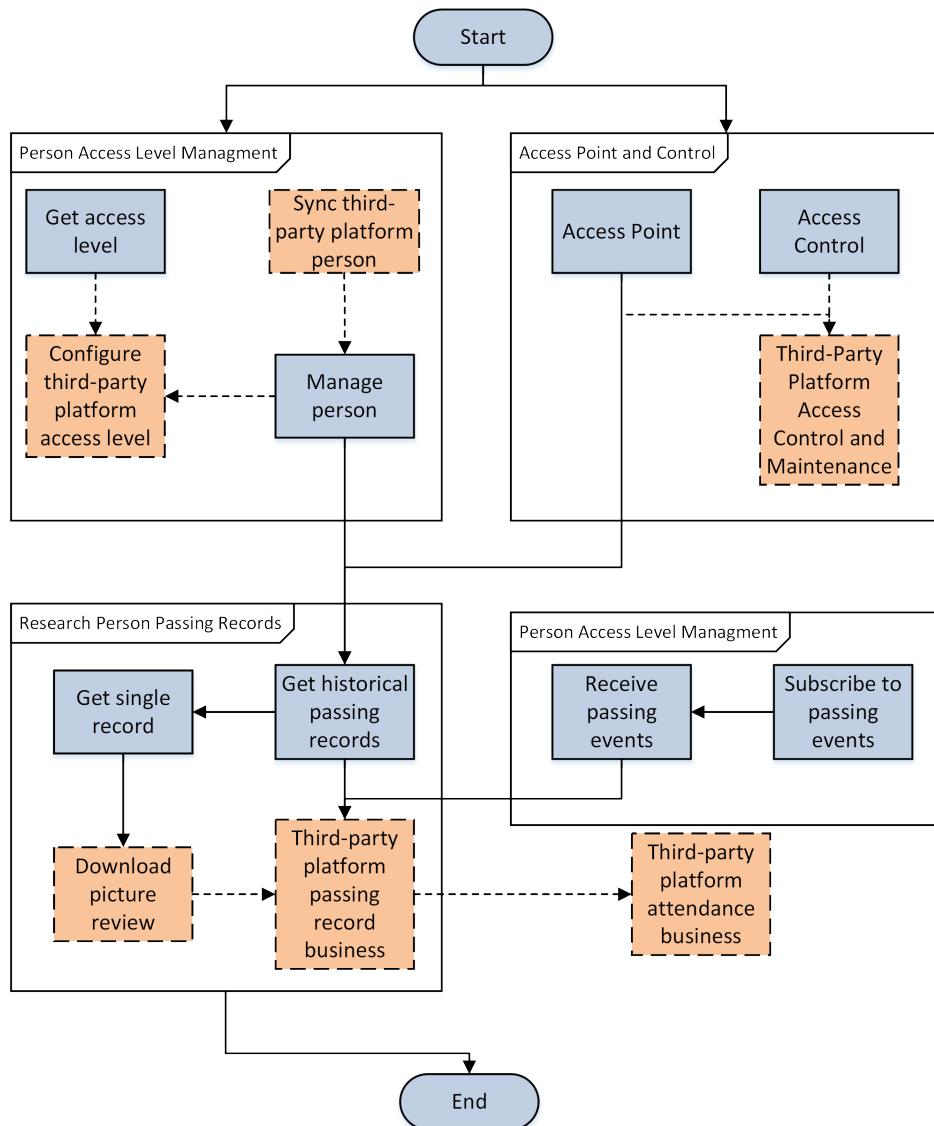


Figure 4-27 Integration Process

4.5.4 Programming Guide

The programming guide includes configurations related to person's access level, providing the real-time person entry/exit monitoring and access event statistics.

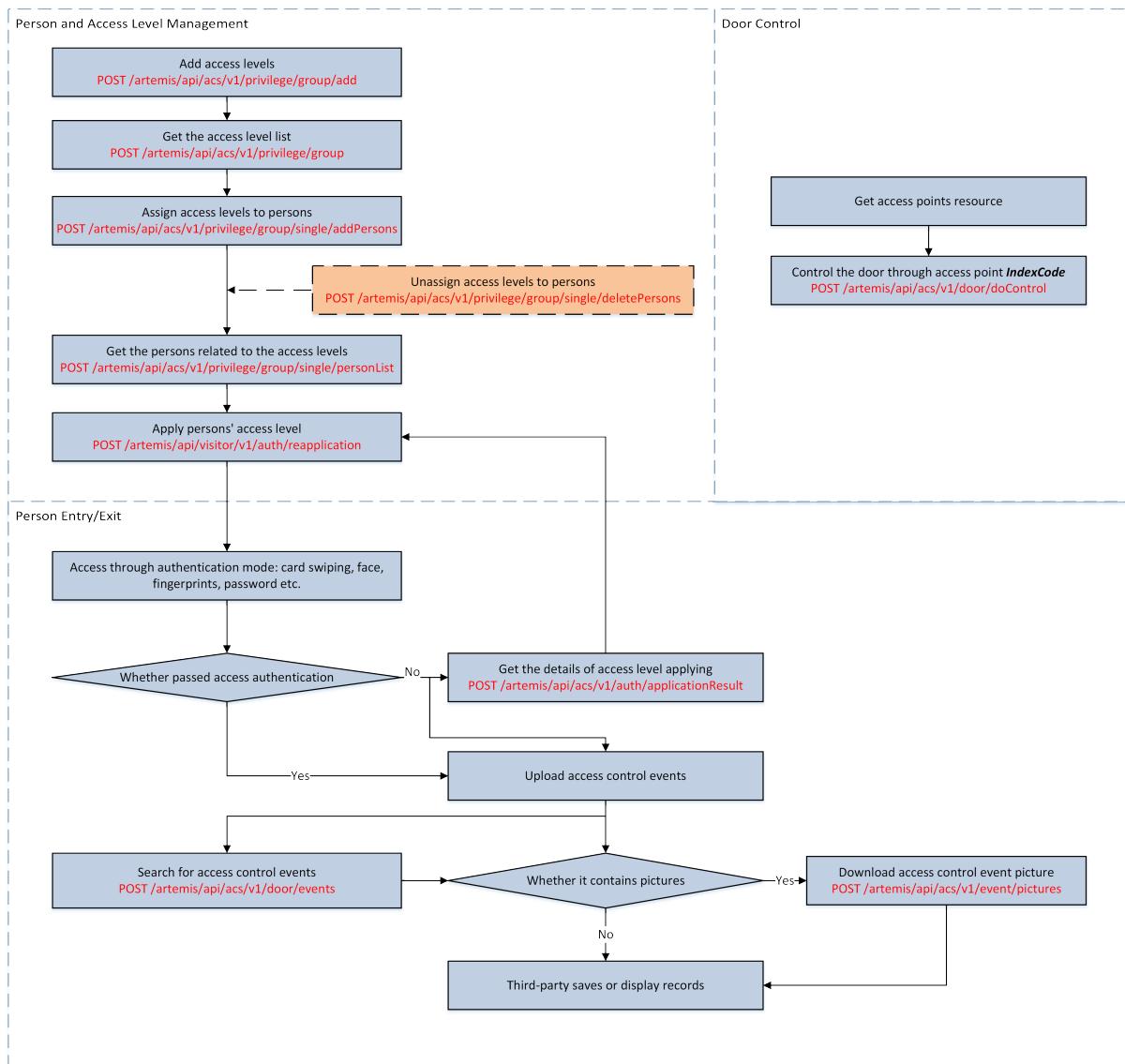


Figure 4-28 API Calling Flow of Access Control

Manage Access Levels

In access control, access level is a group of doors and floors. After assigning the access level to certain persons, it defines the access permission that which persons can get access to which doors and floors during the authorized time period. After setting the linkage between access levels and persons, you should apply the persons' access level settings to device to take effect.

Before You Start

- Make sure you have added access levels on the platform. Refer to the *User Manual of VMSPlatform Web Client* for details.
- Make sure you have added persons. Refer to **Manage Persons** for details.

Steps

1. Call APIs from **Manage Persons** to get the information list of corresponding persons, where you can perform adding, editing, or deleting persons.
2. Manage access levels of the platform.

Operation	API
Get existing access levels of the platform	<u>POST /artemis/api/acs/v1/privilege/group</u>
Add access levels of the platform	<u>POST /artemis/api/acs/v1/privilege/group/add</u>
Edit access levels	<u>POST /artemis/api/acs/v1/privilege/group/update</u>
Delete access levels	<u>POST /artemis/api/acs/v1/privilege/group/delete</u>
3. Optional:	Call <u>POST /artemis/api/acs/v1/privilege/group/single/addPersons</u> / <u>POST /artemis/api/acs/v1/privilege/group/single/deletePersons</u> to assign/unassign access levels to persons.



Note

If the access level is configured through the person group on the platform, calling [POST /artemis/api/acs/v1/privilege/group/single/addPersons](#) is not needed.

4. Call [POST /artemis/api/acs/v1/auth/applicationResult](#) to check if the access level has been applied from platform to device.
5. Optional: If the applying or the person authentication failed, call [POST /artemis/api/visitor/v1/auth/reapplication](#) to reapply.

Receive Card-Swiping Information

You can receive card-swiping information for access control related application development.

- Receive events of the specified event type. Refer to **Subscribe to and Push Events** for details.
- Event type enumeration: **Card Swiping Events**.



Besides card swiping event, you can also refer to other access control related alarms for your development: **Door Alarms** and **Access Control Device Alarms**.

Search for Card-Swiping Records and Download Picture

You can search for card-swiping records in page according to the start/end time, access point ID, event type, and person name.

1. Call the access point resource related APIs in [**Manage Logical Resources**](#) to get the corresponding resource information list.
2. Call [**POST /artemis/api/acs/v1/door/events**](#) to search for card-swiping records.



For the event types as the search condition, see details in [**Event Types or Alarm Categories**](#).

3. Call [**POST /artemis/api/acs/v1/event/pictures**](#) to download URL pictures from the event.

Control Door Status

You can control the status for a single door, including opening door, closing door, remaining the door open, and remaining the door closed.

Steps

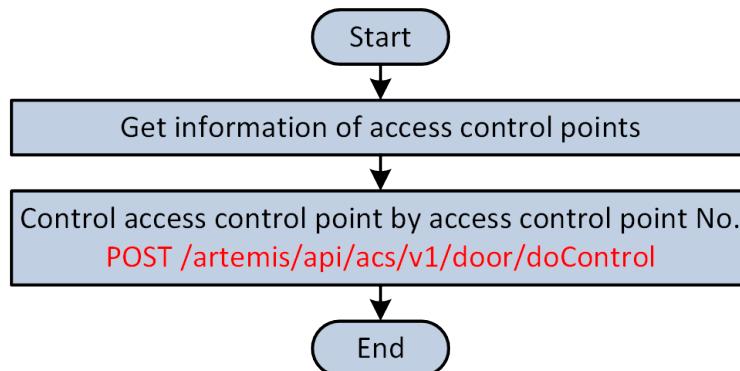


Figure 4-29 API Calling Flow of Controlling Door Status

1. Get door (access point) information, refer to [**Resource Management**](#) for details.
2. Call [**POST /artemis/api/acs/v1/door/doControl**](#) to control the status of a single door.

4.5.5 Restrictions and Suggestions

1. As the access control APIs require interaction with device, it is recommended to lower the calling frequency according to the network status during operations on the same device.
2. For [POST /artemis/api/visitor/v1/auth/reapplication](#), it is recommended to choose whether to apply persons including those which have failed as needed. Applying those which have failed may lead to slow applying.
3. Access levels created by persons will be automatically applied and do not require a second applying. It is recommended to call the access level applying API after the access level verification failed; it is recommended to wait a while before calling the search API [POST /artemis/api/acs/v1/auth/applicationResult](#) as the auto-applying of access level takes some time.

4.6 Visitor Management

4.6.1 Integration Scenario

The third-party platform that integrates the visitor application is generally applied in scenarios such as companies, organizations, and apartment hotels. For example, a company already has its software system for visitor business management, but there are no access control devices to provide visitor access control. In the scenario of an apartment hotel, the existing software can manage room permissions, but there is no permission control for guests entering the apartment hotel in the public area through the access/elevator control devices.

Whether it is the scenario of company visitors or apartment hotel guests, their core pain points mainly focus on two business applications: authorizing visitors/guests to gain access to public gates/elevators for a period of time on the existing management software, and querying visitor/guest information and visit records. In order to authorize visitors/guests to have access to public gates/elevators for a period of time on the existing management software, it is necessary to authorize visitor access to HikCentral Professional in advance through a third-party platform, which means that visitor access credentials need to be applied to access control or elevator control devices in public areas in advance. HikCentral Professional provides the visitor information and record retrieval capabilities through OpenAPI, allowing third-party platforms to query visitor/guest information and visit records, achieving a closed-loop visit business.

4.6.2 Capability Description

You can manage visitors, including making reservations for visitors, checking in visitors with/without reservation information, and checking out visitors. The certificate No. will be used as the unique visitor ID, for allowing or rejecting the reservation when matching with the monitoring list configured.

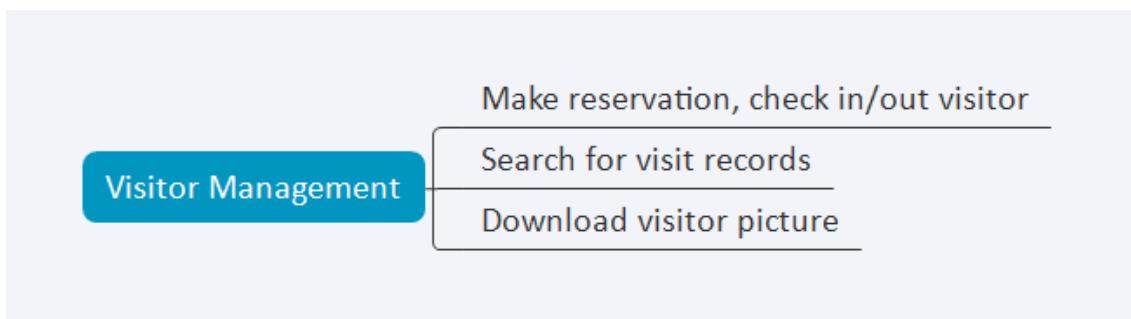


Figure 4-30 Visitor Management Capability Directory

4.6.3 Integration Process

In third-party integration projects which involving visitor application integration, the general integration process is shown in the following figure.

The third-party platform can make reservations for visitors through OpenAPI.

The third-party platform can check in both visitors who have made and have not made reservations through OpenAPI. After check-in, visitor credentials (visitor basic information and card/fingerprint/face) will be automatically applied to access control devices or elevator control devices; that is, access permissions will be granted.

When visitors leave, the third-party platform can use OpenAPI to check them out and automatically revoke their access permissions.

The third party can use OpenAPI to query existing visitor information and visitor groups, as well as access records, in order to implement the visitor management application on the third-party platform.

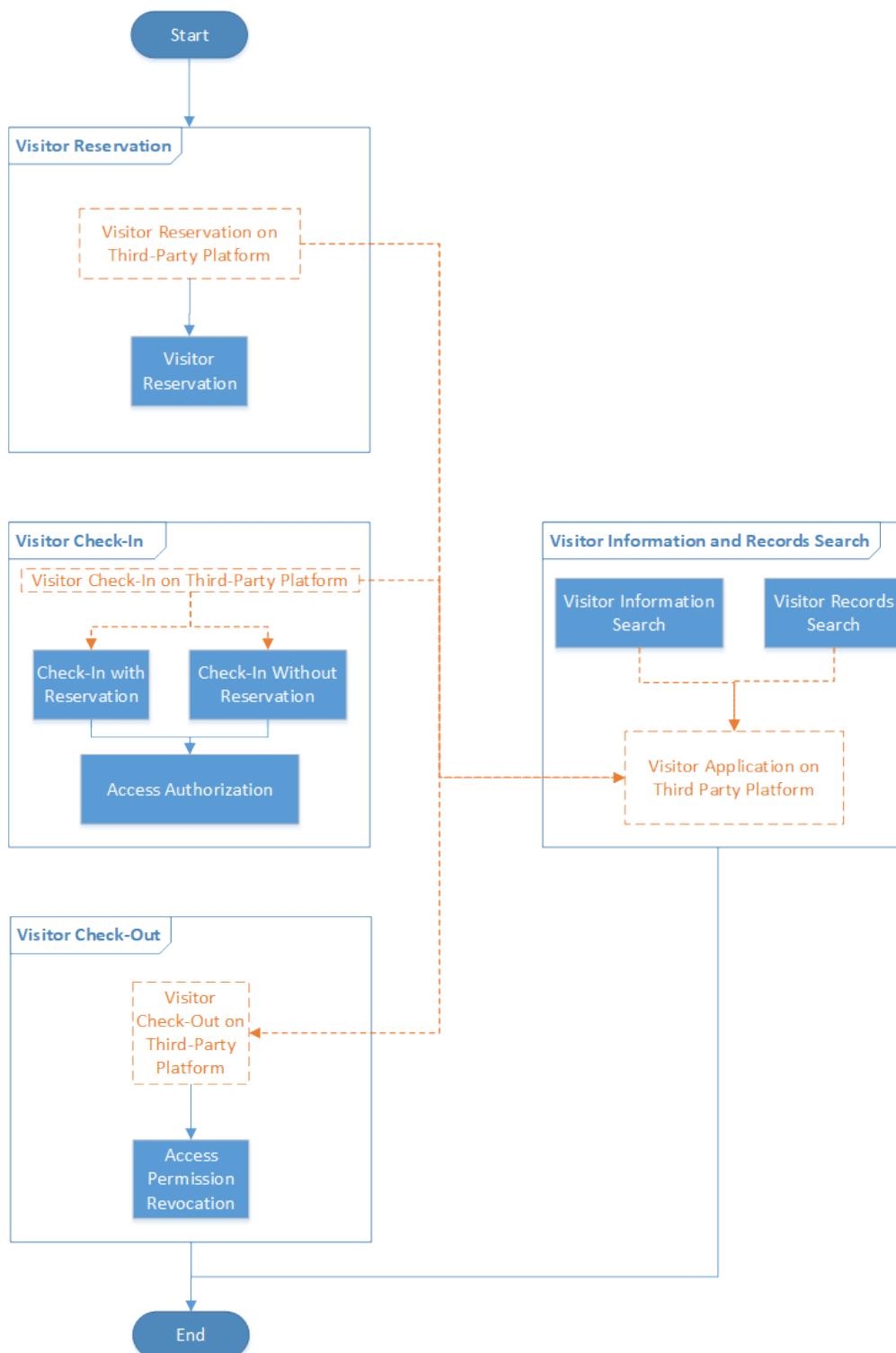


Figure 4-31 Integration Process

4.6.4 Programming Guide

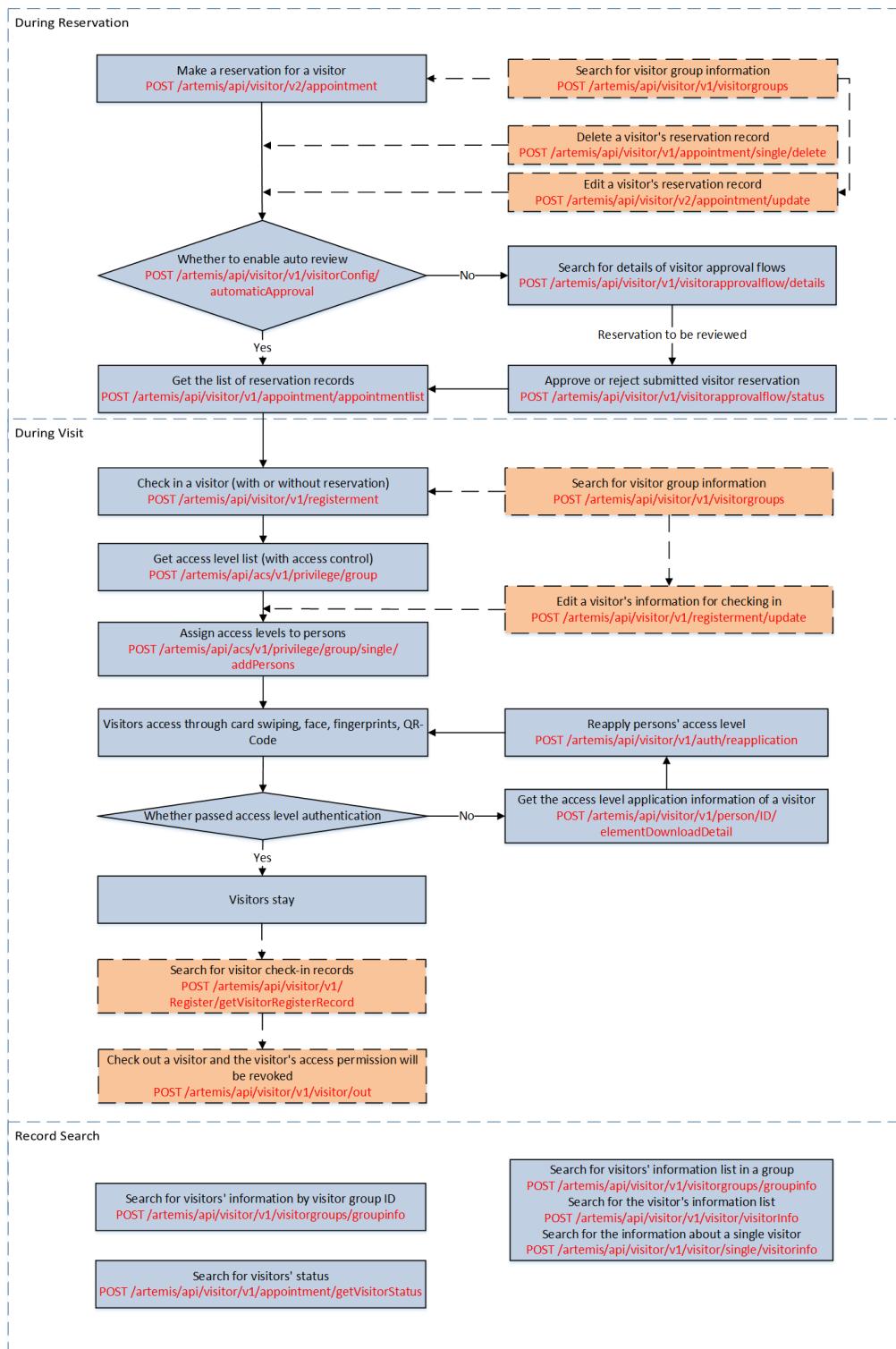


Figure 4-32 API Calling Flow of Visitor Management

Make a Reservation for Visitor

You can make reservations for visitors before arrival, and quickly check in the reserved visitors with the visitor information including reservation code, phone No., and certificate No.

1. Call [***POST /artemis/api/visitor/v1/visitorgroups/groupinfo***](#) to get the name of each visitor group.
 2. Call [***POST /artemis/api/visitor/v2/appointment***](#) to make a reservation for a visitor. The visitor group name can be entered, and if the name does not exist, it will be added.
 3. If the visitor matched with any person in the monitoring list, all matched information will be returned and you should call [***POST /artemis/api/visitor/v2/appointment***](#) again with the auto-filled information to make the reservation.
 4. Call [***POST /artemis/api/visitor/v1/visitorConfig/automaticApproval***](#) to check whether auto review of visitor reservation is enabled or not.
 5. (Optional) Call [***POST /artemis/api/visitor/v2/appointment/update***](#) / [***POST /artemis/api/visitor/v1/appointment/single/delete***](#) to edit/delete the visitor reservation information.
-



Note

When auto review of visitor reservation is enabled, you can edit the reservation information; when it is disabled, the reservation in review cannot be edited.

6. (Optional) Call [***POST /artemis/api/visitor/v1/visitorapprovalflow/status***](#) to review the reservation. Before the review, call [***POST /artemis/api/visitor/v1/visitorApprovalFlow/details***](#) to search for the review status of the reservation records.
7. Call [***POST /artemis/api/visitor/v1/appointment/appointmentlist***](#) to search for the reservation list.

Check In Visitor

The platform provides check-in service for both reserved visitors and unreserved visitors.

Check In Unreserved Visitor

The process of checking in unreserved visitors includes entering the visitor information and visitor certificate, visit purpose, linking and applying access levels. Refer to [***Manage Access Levels***](#) for configuring access levels.

1. Call [***POST /artemis/api/visitor/v1/visitorgroups/groupinfo***](#) to get the name of each visitor group.
2. Call [***POST /artemis/api/visitor/v1/registerment***](#) to check in a visitor without reservation. The visitor group name can be entered, and if the entered name does not exist, it will be added.
3. (Optional) Call [***POST /artemis/api/visitor/v1/registerment/update***](#) to edit the visitor check-in information.
4. (Optional) For scenarios where access control is applicable, call [***POST /artemis/api/acs/v1/privilege/group***](#) to search for the access group and add the visitor to the specified access group.

5. If the access level applying failed, call [***POST /artemis/api/visitor/v1/auth/reapplication***](#) again to reapply the access level.
6. Call [***POST /artemis/api/visitor/v1/register/getVisitorRegisterRecord***](#) to search for the visitor check-in records.

Check In Reserved Visitor

If a reservation has been made before check-in, the check-in process includes searching for reservation information, auto-filling in the visitor information, and linking and applying access levels.



The difference between check-in with and without reservation is the searched reservation information for quick filling of visitor information.

1. Call [***POST /artemis/api/visitor/v1/appointment/appointmentlist***](#) to get the reservation record, or get the reservation record by reservation code.
2. According to the **visitorId** returned from the last step, call [***POST /artemis/api/visitor/v1/registerment***](#) to match the **visitorId** with the information from the reservation list, for auto-filling for quick visitor check-in.
3. (Optional) Call [***POST /artemis/api/acs/v1/privilege/group***](#) to search for the access group and add the visitor to the specified access group.
4. Call [***POST /artemis/api/visitor/v1/auth/reapplication***](#) to apply the visitor's access level settings to devices.
5. Call [***POST /artemis/api/visitor/v1/person/ID/elementDownloadDetail***](#) to search for information of access level applying. If the access level applying failed, call [***POST /artemis/api/visitor/v1/auth/reapplication***](#) again to reapply the access level.

Check Out Visitor

You can make reservations for visitors before arrival, and quickly check in the reserved visitors with the visitor information including reservation code, phone No., and certificate No.

When the visit is over, call [***POST /artemis/api/visitor/v1/visitor/out***](#) to check out the visitor and the visitor's access level will be revoked.

Search for Visit Record

You can search for visit records including reservation records, visitor groups, visitor information, and check-in records.

- After a reservation is made, the corresponding reservation record will be generated.

Call [**POST /artemis/api/visitor/v1/appointment/appointmentlist**](#) to get the reservation record list.

- Call [**POST /artemis/api/visitor/v1/register/getVisitorRegisterRecord**](#) to search for details of visitor check-in.
- After the reservation is made or the visitor is checked in, the visitor information will be added to the visitor group.
Call [**POST /artemis/api/visitor/v1/visitorgroups/groupinfo**](#) to search for visitors' information by visitor group ID.
- Call [**POST /artemis/api/visitor/v1/visitor/visitorInfo**](#) or [**POST /artemis/api/visitor/v1/visitor/single/visitorinfo**](#) to search for visitors' information by condition.
- Call [**POST /artemis/api/visitor/v1/visitorgroups/groupinfo**](#) to search for visitors' information by visitor group ID.
- After visitors' information is obtained via some of the above APIs, call [**POST /artemis/api/visitor/v1/appointment/getVisitorStatus**](#) to search for the visitor status at a certain time.

4.7 ANPR

4.7.1 Capability Description

The ANPR application provides the capability of vehicle recognition, including ANPR event upload, ANPR record search, and vehicle picture download.



For vehicle resource management, refer to [**Manage Vehicles**](#).

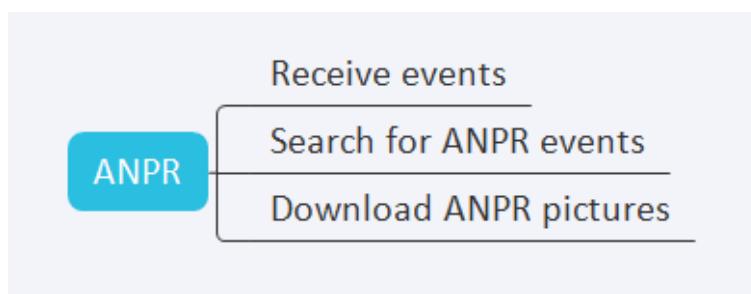


Figure 4-33 ANPR Capability Directory

4.7.2 Programming Guide

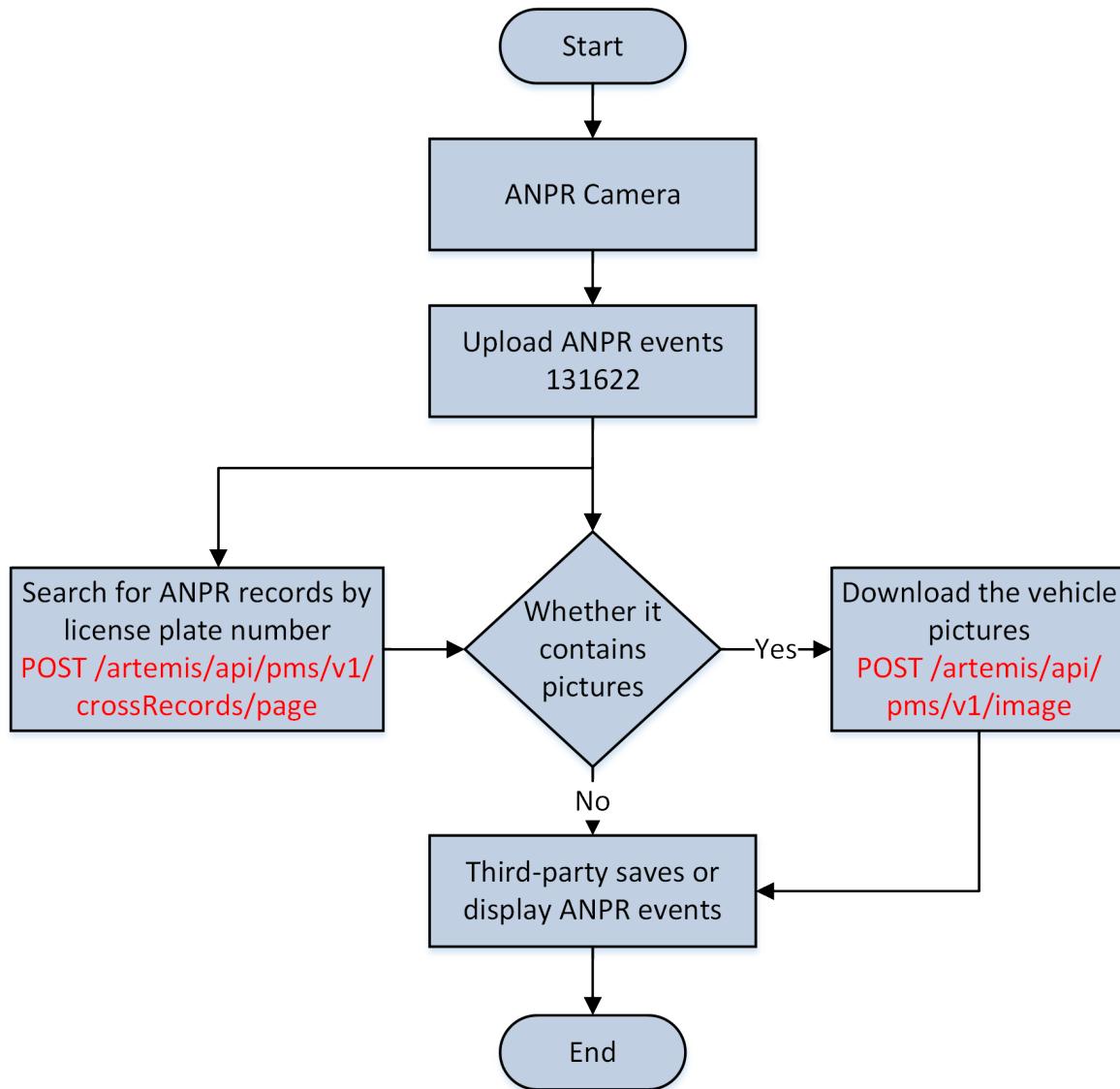


Figure 4-34 API Calling Flow of ANPR

1. Receive the real-time ANPR events (**ANPR Events**) and call **POST /artemis/api/pms/v1/crossRecords/page** to search for history records of ANPR.
2. If the event message or records contain any picture URL, call **POST /artemis/api/pms/v1/image** to download the vehicle picture.



Besides the ANPR events, you can also refer to the vehicle matched event and vehicle mismatched event in **Camera Alarms**.

4.8 Parking Lot Application

4.8.1 Integration Scenario

The third-party platform integrating the parking lot application is already a mature parking lot management system. You can use the new functions of devices added to VMSPlatform and manage the data statistics on the third-party platform at the same time.

For example, when guidance devices are added to VMSPlatform, you can use the APIs to get the parking space status, the parking fee, and other related information from VMSPlatform, and implement the parking fee management on the third-party platform.

4.8.2 Capability Description

The parking lot application includes searching for vehicle passing records, searching for vehicle parking records, getting the real-time occupancy of parking spaces, getting the parking fee information, etc.



For vehicle resource management, refer to [**Manage Vehicles**](#).

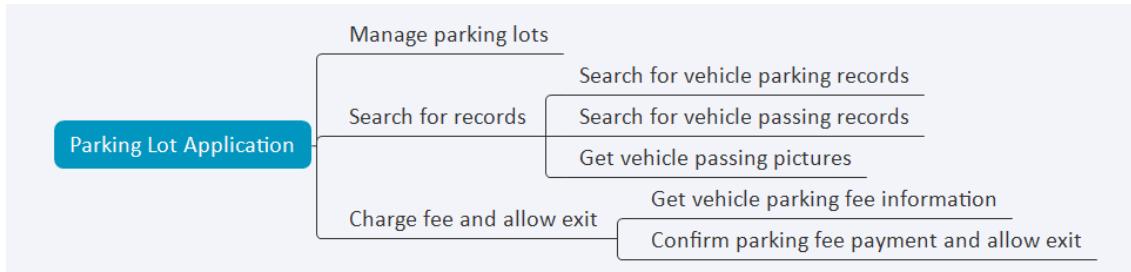


Figure 4-35 Parking Lot Application Capability Directory

4.8.3 Integration Process

The integration process of parking lot application is shown below.



Figure 4-36 Integration Process of Parking Lot

4.8.4 Programming Guide

Search for Vehicle Passing Records

You can search for vehicle passing records in page by start/end time, parking lot ID, license plate No., vehicle owner name, vehicle owner contact, etc.

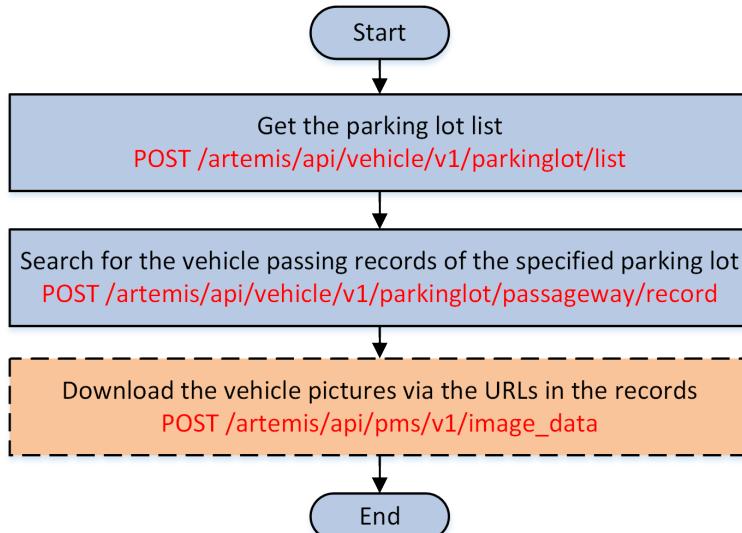


Figure 4-37 API Calling Flow of Searching for Vehicle Passing Records

1. Call `POST /artemis/api/vehicle/v1/parkinglot/list` to get the parking lot list.
2. Call `POST /artemis/api/vehicle/v1/parkinglot/passageway/record` to search for the vehicle passing records of the specified parking lot.
3. (Optional) Call `POST /artemis/api/pms/v1/image` to download the vehicle pictures via the URLs in the records.

Get Passing Vehicle Picture

1. Call `POST /artemis/api/vehicle/v1/parkinglot/passageway/record` to get the vehicle passing records containing the picture URL (`ImageUrl`); or receive ANPR events (`ANPR Events`) to get the picture URL from the event message.



For how to receive ANPR events, refer to [Programming Guide](#).

2. Call `POST /artemis/api/pms/v1/image` to download the corresponding picture.

Get Real-Time Occupancy of the Parking Spaces

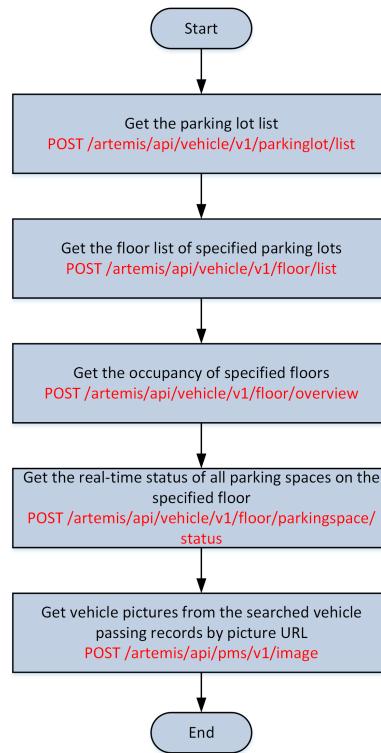


Figure 4-38 API Calling Flow of Getting Real-Time Occupancy of the Parking Spaces

1. Call **POST /artemis/api/vehicle/v1/parkinglot/list** to get the parking lot list.
2. Call **POST /artemis/api/vehicle/v1/floor/list** to get the floor list of the specified parking lots.
3. Call **POST /artemis/api/vehicle/v1/floor/overview** to get the occupancy of the specified floors.
4. Call **POST /artemis/api/vehicle/v1/floor/parkingspace/status** to get the real-time status of all parking spaces on the specified floor.
5. According to **parkingImageUrl** and **platenumberImageUrl** in the returned parking space information, call **POST /artemis/api/pms/v1/image** to download the picture.

Search for Vehicle Parking Records

Search for vehicle parking records by parking start/end time, parking lot ID, floor ID, parking space No., and license plate No.

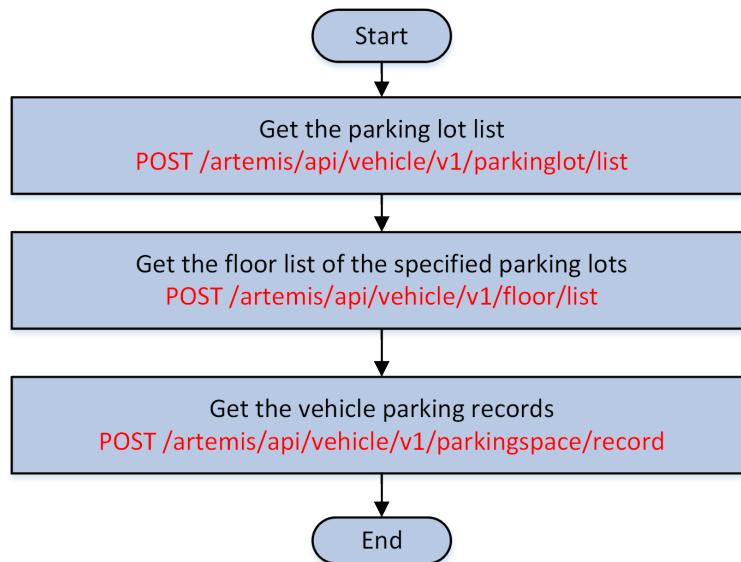


Figure 4-39 API Calling Flow of Searching for Vehicle Parking Records

1. Call `POST /artemis/api/vehicle/v1/parkinglot/list` to get the parking lot list.
2. Call `POST /artemis/api/vehicle/v1/floor/list` to get the floor list of the specified parking lots.
3. Call `POST /artemis/api/vehicle/v1/parkingspace/record` to get the vehicle parking records.

Get Vehicle Parking Fee Information

Get the vehicle parking fee information by accurate license plate No.

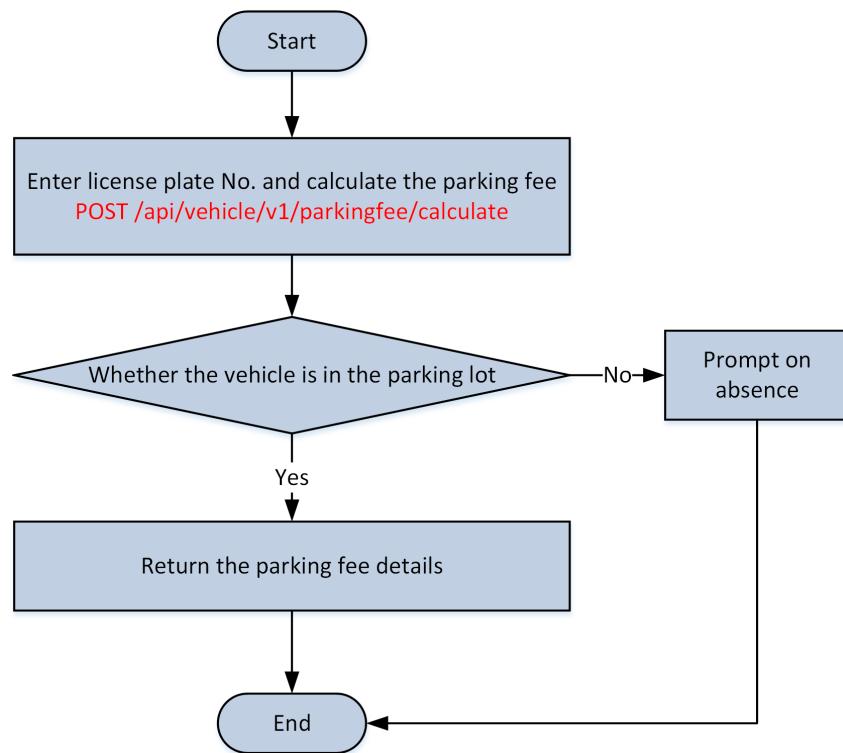


Figure 4-40 API Calling Flow of Getting Vehicle Parking Fee Information

Enter the license plate number and call `POST /artemis/api/vehicle/v1/parkingfee/calculate` to get the parking fee information of the vehicle in the current parking lot.

Confirm Parking Fee Payment and Allow Exit

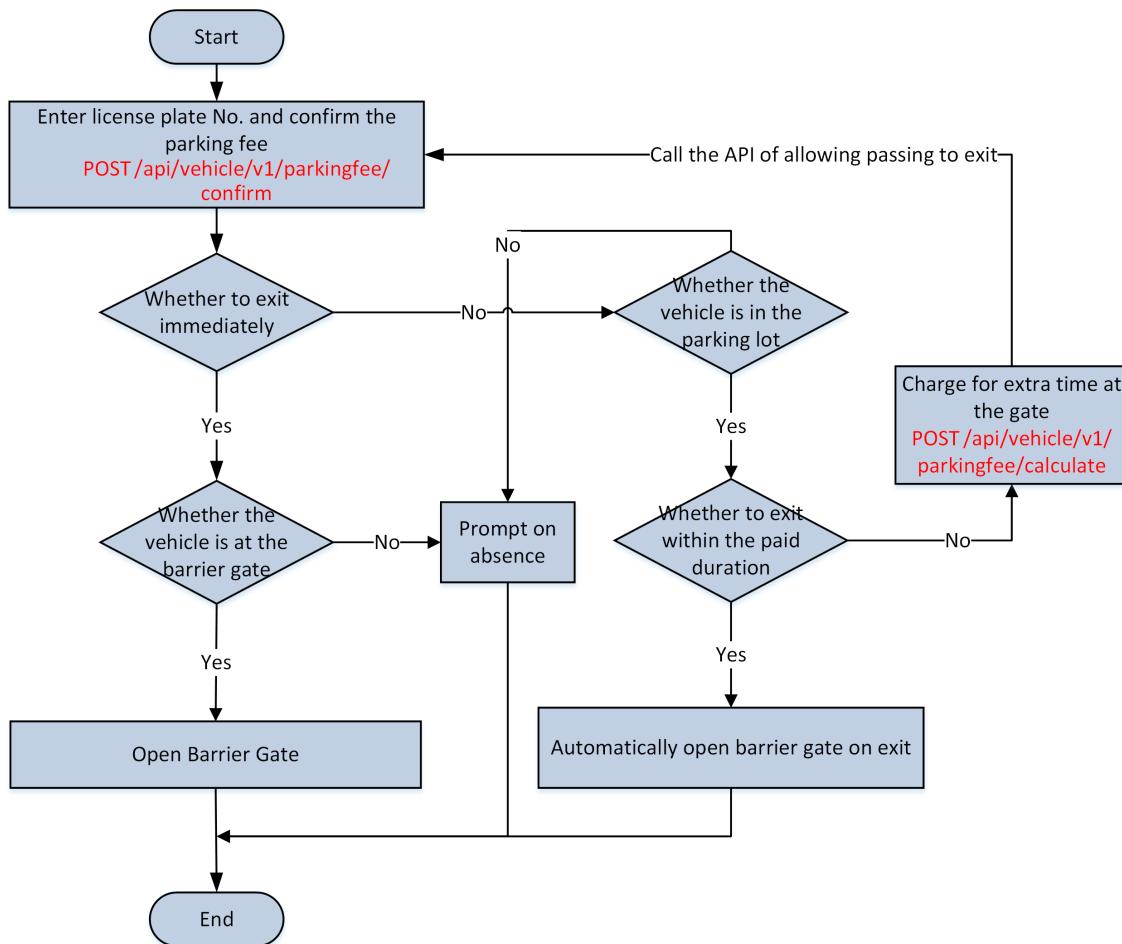


Figure 4-41 API Calling Flow of Confirming the Payment of Parking Fee and Allow Exit

Enter the license plate number and call `POST /artemis/api/vehicle/v1/parkingfee/confirm`.

- Payment on exit:
 - If the vehicle is right at the barrier gate, the gate will be opened once the payment is made via booth.
 - If the vehicle is not at the barrier gate, a prompt on absence will be sent.
- Payment before exit:
 - If the vehicle is to exit within the paid duration, the gate will be automatically opened on exit.
 - If the vehicle is to exit after the paid duration, extra time will be charged and the gate will be automatically opened after the payment is made.

4.9 On-Board Monitoring

4.9.1 Integration Scenario

The third party platform integrating on-board monitoring application is commonly applied in the vehicle renting scenario, e.g., the service management software for taxi company, tank truck, bus company, etc. The key functions to be realized are basically the punctuality of rented vehicles and regulation of driver's behavior.

- Punctuality of rented vehicles: Check if the vehicle running route has been followed correctly and get the on-board device GPS data. With the GPS data, the third party platform will display the real-time vehicle information on the map.
- Regulation of driver's behavior: Receive and search for DBA alarms.

Besides, the thid party platform will also integrate the basic video service applications including the on-board device maintenance and on-board device live view / playback / video download.

4.9.2 Capability Description

The on-board monitoring capability is about managing on-board monitoring devices ([Manage Physical Resources](#)), getting detailed information of GPS statistics, searching for event information of an on-board device, and searching for event records of on-board monitoring (brief information included only).

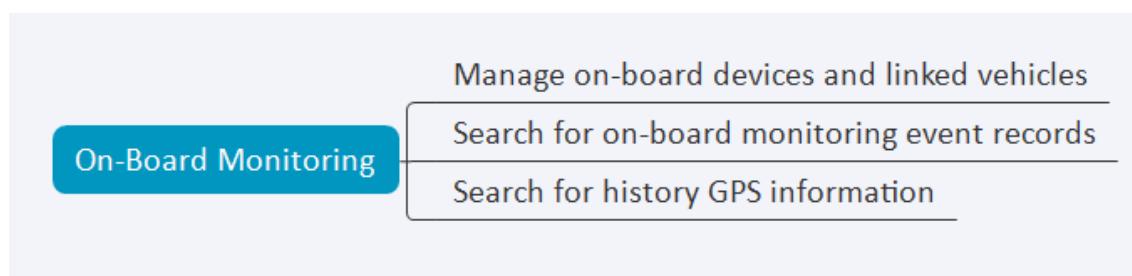


Figure 4-42 On-Board Monitoring Capability Directory

4.9.3 Integration Process

For a third party integration project invloved with on-board monitoring application, the integration method is usually as follows. The third party platform integrates the HikCentral Professional platform via OpenAPI, to get the on-board device list and on-board camera list, and establish its own camera maintenance.

After the on-board camera list and the streaming URL are obtained, the third party platform can integrate and realize its own video monitoring service including live view / playback / video download.

After the on-board device list is obtained, the history GPS data and on-board monitoring event record search can be obtained. The history GPS data can be used for integrating the GPS application for the third party platform; the on-board monitoring event record search can be used for searching for the record(s) of a single on-board monitoring event.

After subscribing to on-board monitoring event messages, the third party can receive on-board monitoring events in real time. The realization of the third party's own alarm application includes the searching of a single on-board monitoring event and the real time receiving of on-board monitoring events.

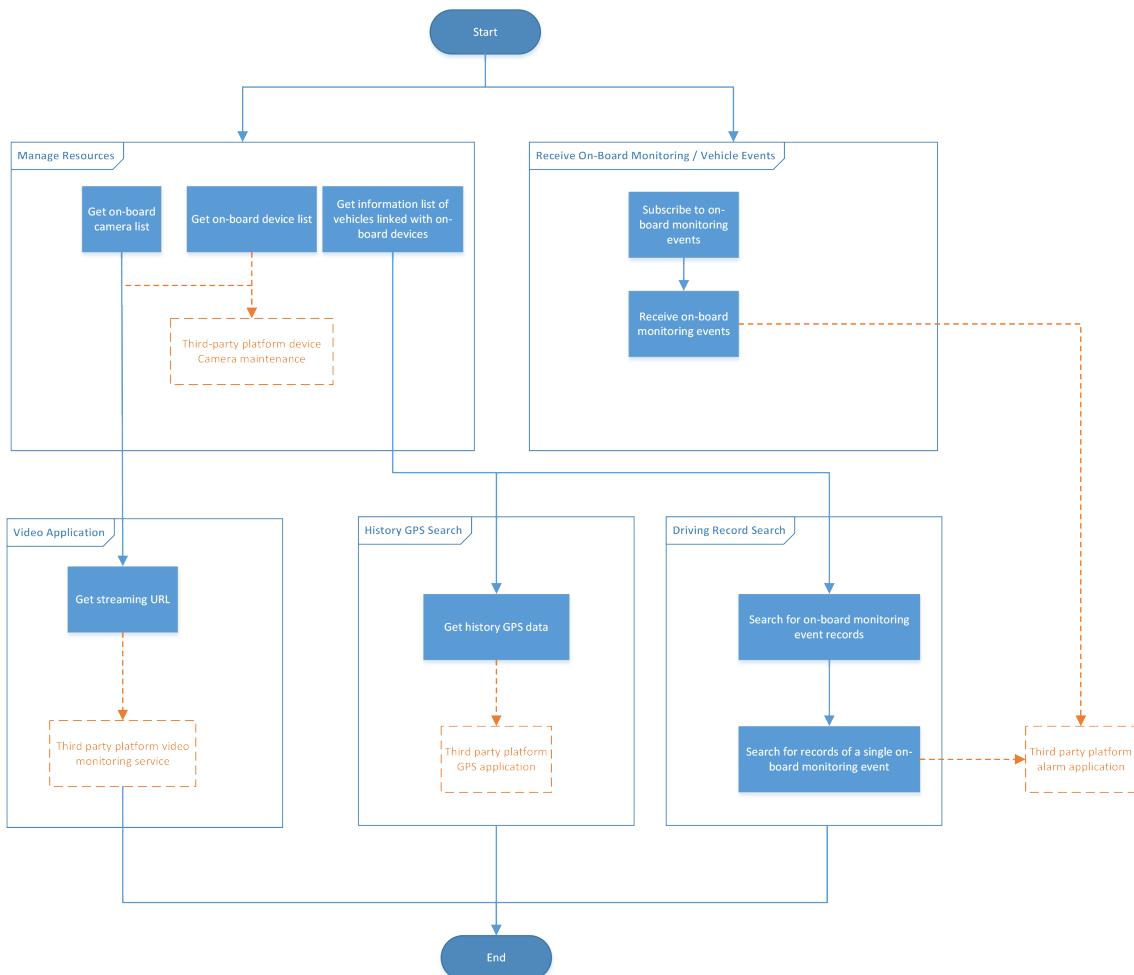


Figure 4-43 Integration Process of On-Board Monitoring

4.9.4 Programming Guide



Note

- **Resource Management:** consistent with [Table 4-6 in Manage Physical Resources](#) .
 - **Video Application:** consistent with [Video Application](#) .
-

Search for Driving Event Records

You can search for records of driving events of the following types.

- On-Board module event: panic button alarm, sharp turn, sudden brake, sudden acceleration, rollover, overspeed, collision, enter fence, deviation, and exit fence.
-



For receiving the following real-time on-board module event, refer to [Event and Alarm](#) .

- Driver status monitoring event: smoking, on the phone, fatigue driving, distracted, not buckled up, and video tampering.
- ADAS event: front vehicle collision warning, short vehicle distance warning, lane deviation warning, pedestrian collision warning, overspeed warning, and blind spot detection warning.

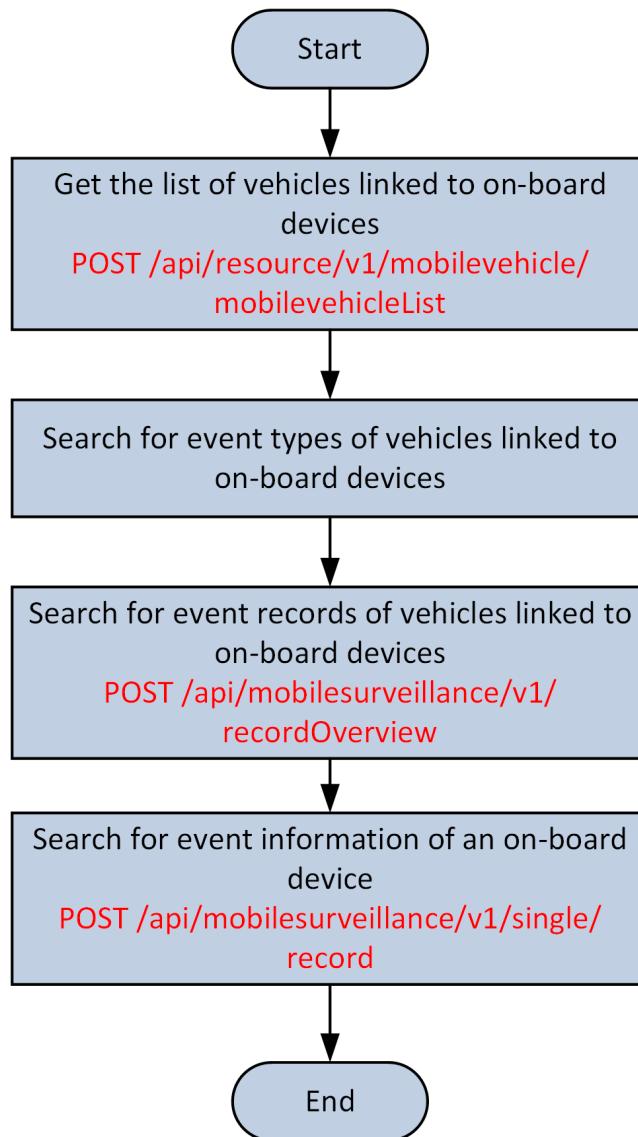


Figure 4-44 API Calling Flow of Searching for Driving Event Records

1. Call **POST /artemis/api/resource/v1/mobilevehicle/mobilevehicleList** to get the list of vehicles linked to on-board devices.
2. Call **On-Board Monitoring Events** to search for event types of vehicles linked to on-board devices.
3. Call **POST /artemis/api/mobilesurveillance/v1/recordOverview** to search for event records of vehicles linked to on-board devices.
4. Call **POST /artemis/api/mobilesurveillance/v1/single/record** to search for event information of an on-board device.

Search for GPS Statistics

Search for history GPS data uploaded by multiple on-board devices by time.

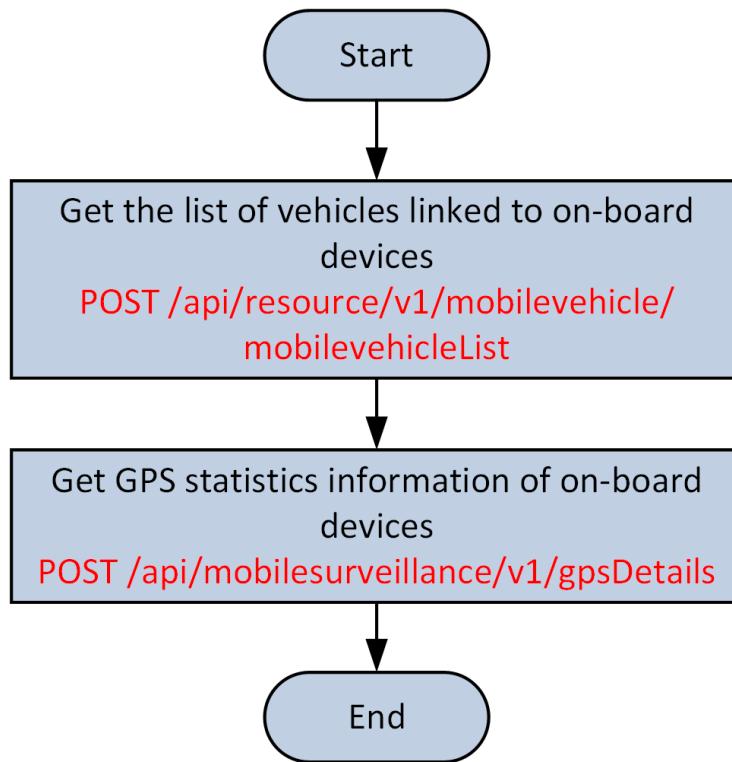


Figure 4-45 API Calling Flow of Searching for GPS Statistics

1. Call `POST /arTEMIS/api/resource/v1/mobilevehicle/mobilevehicleList` to get the list of vehicles linked to on-board devices.
2. Call `POST /arTEMIS/api/mobilesurveillance/v1/gpsDetails` to get GPS statistics information of on-board devices.

Receive On-Board Monitoring Events

You can receive real-time event notifications with relevant subscriptions. Refer to [Subscribe to and Push Events](#) for details. For supported event types, refer to [On-Board Device Alarms](#) and [On-Board Monitoring Events](#).

4.10 Commercial Display

4.10.1 Capability Description

The commercial display capability is about displaying third-party data source, managing the material library, creating programs, and releasing contents.

4.10.2 Programming Guide

Update Data Source

You can upload dynamic materials and data source materials of the third-party, search for or customize the available data source ID, add data source to the program for pushing the updated data.

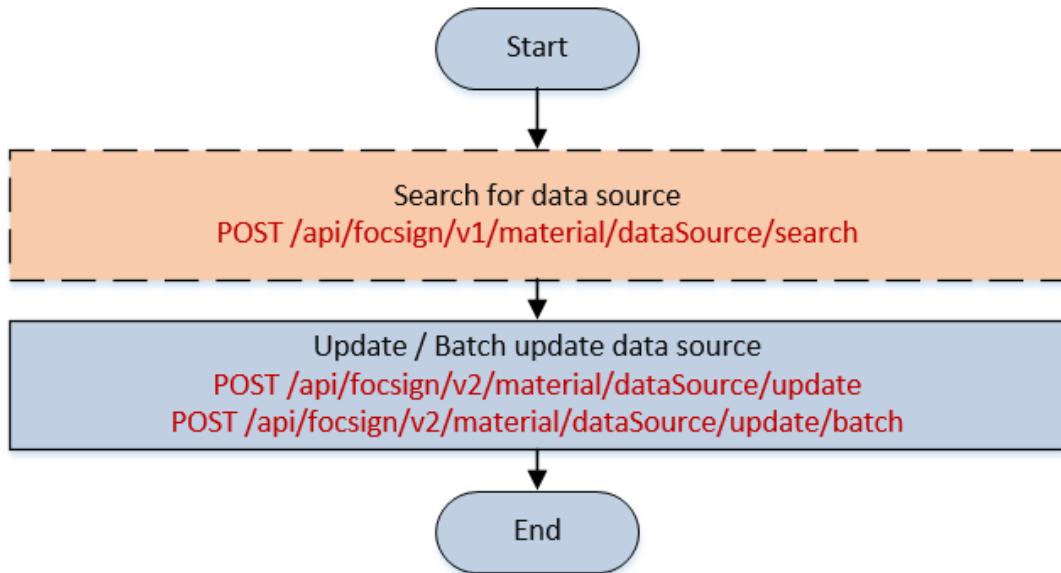


Figure 4-46 API Calling Flow of Managing Data Source

1. (Optional) Call [POST /artemis/api/focsign/v1/material/dataSource/search](#) to search for the available data source on the current platform.
2. Call [POST /artemis/api/focsign/v2/material/dataSource/update](#) / [POST /artemis/api/focsign/v2/material/dataSource/update/batch](#) to update / batch update the data source.

Manage Material Library

You can search for materials by the start/end time and material type, and download materials.

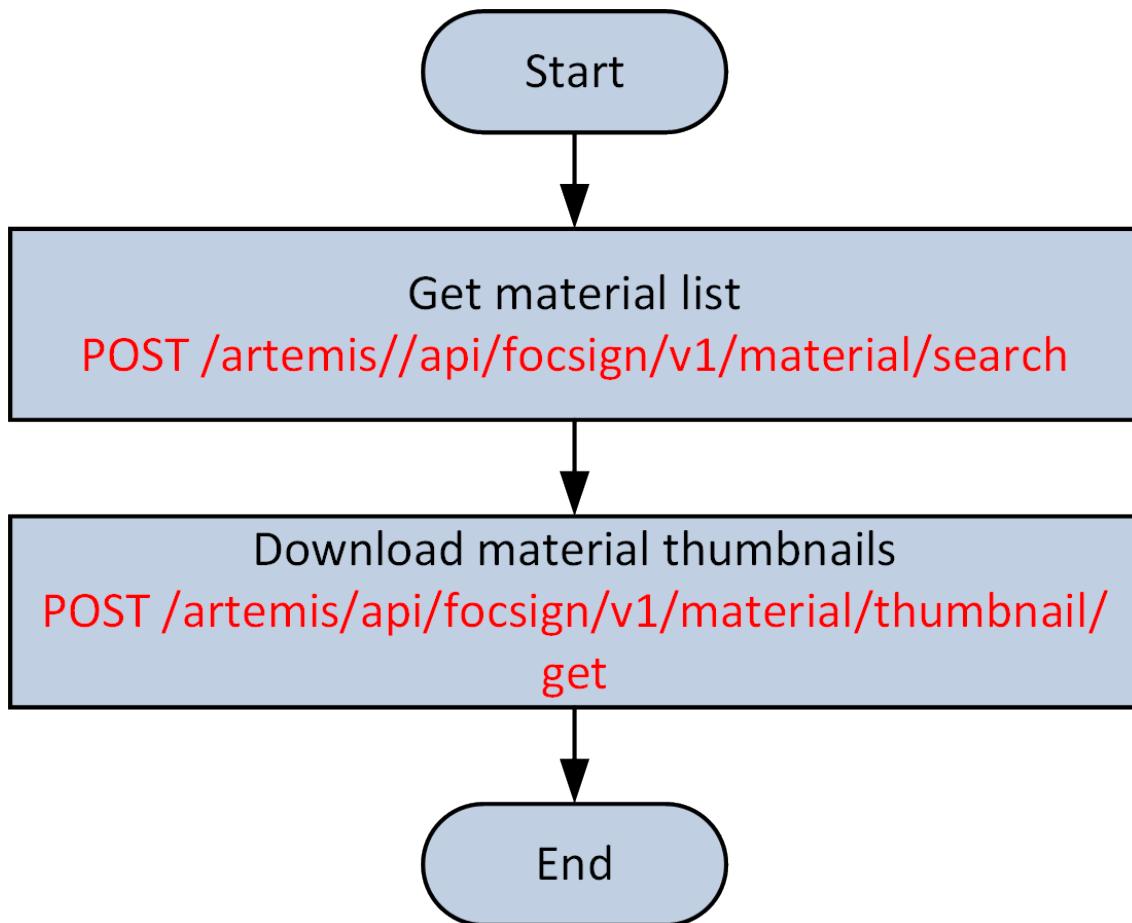


Figure 4-47 API Calling Flow of Managing Material Library

1. Call ***POST/artemis/api/focsign/v1/material/search*** to search material information for getting the material information list including material name, type, and page number.
2. (Optional) Call ***POST/artemis/api/focsign/v1/material/thumbnail/get*** to download the material thumbnail.

Release Content

You can quick release contents, cancel releasing, and view the release records.

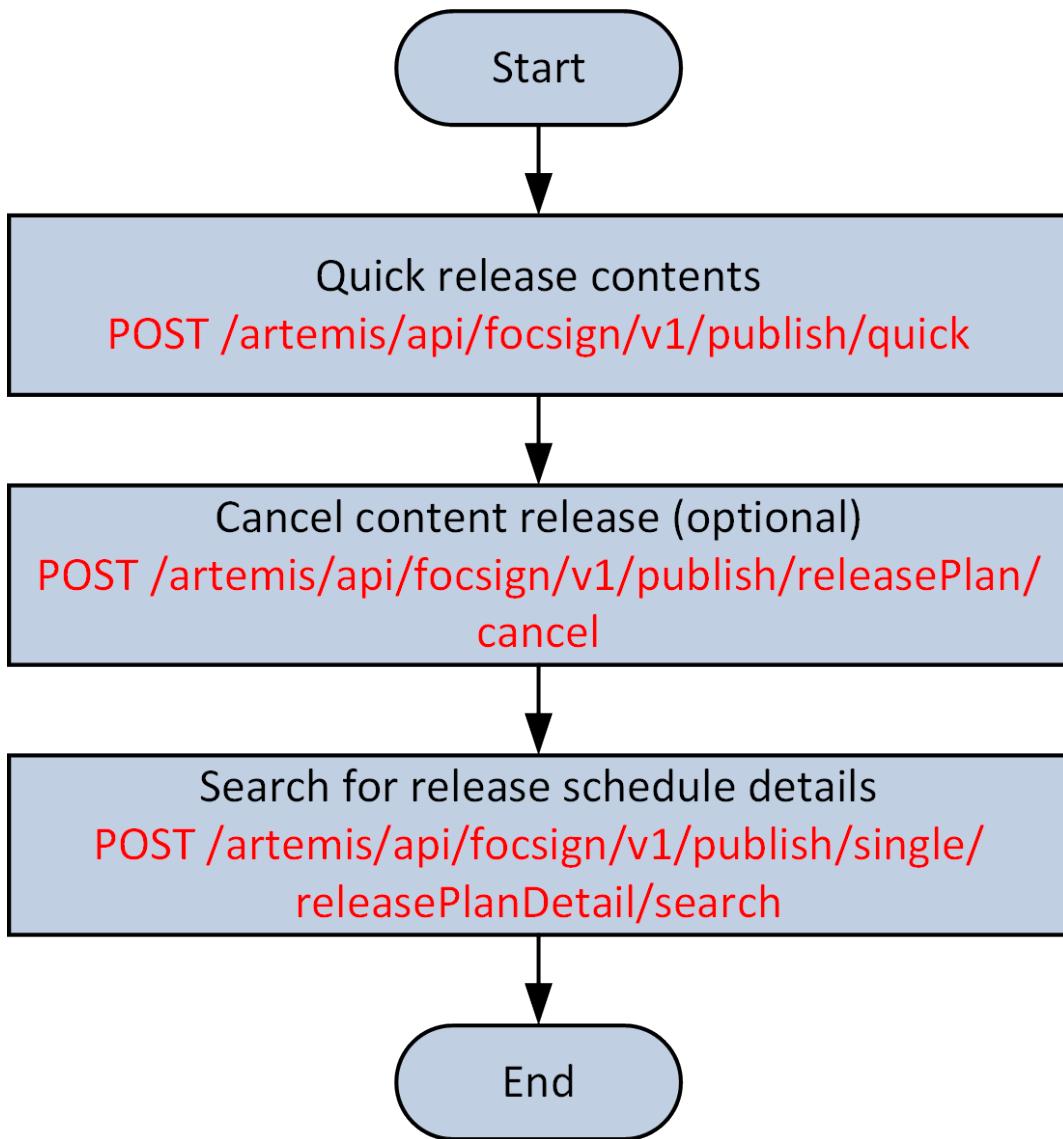


Figure 4-48 API Calling Flow of Quick Release Content

1. Call **POST/artemis/api/focsign/v1/publish/quickPublish** to start quick release, and apply pictures/videos in the content to the device.
2. (Optional) Call **POST/artemis/api/focsign/v1/publish/releasePlan/cancel** to cancel the content release.
3. Call **POST/artemis/api/focsign/v1/publish/single/releasePlanDetail/search** to get the release record of the specific content by task ID.

Control Device

You can search for devices by multiple conditions, and get the available device for content release.

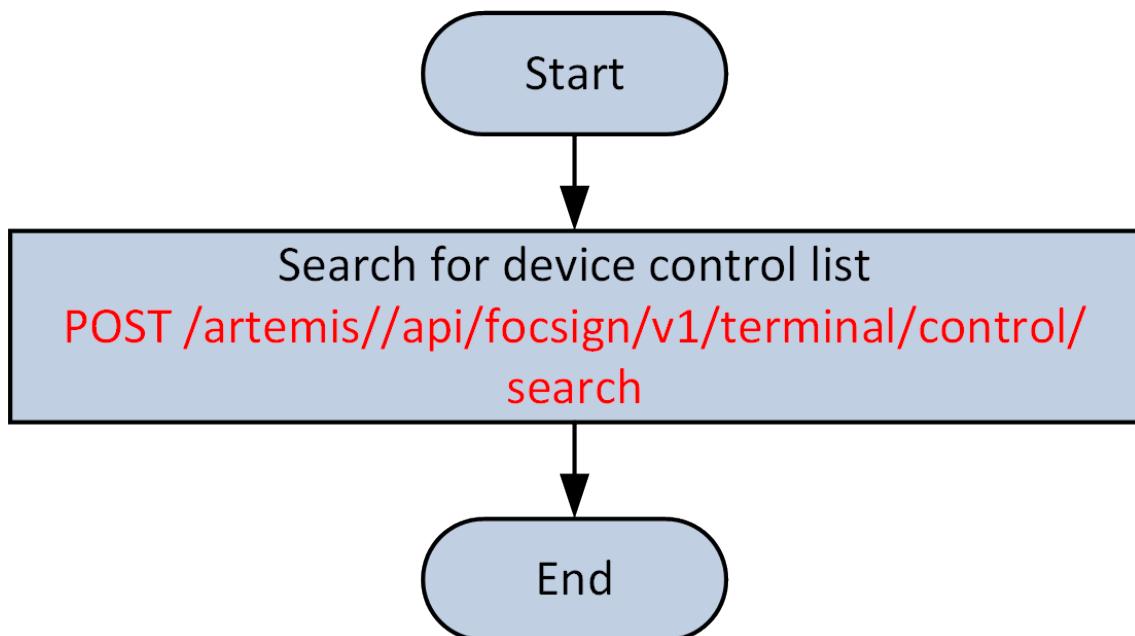


Figure 4-49 API Calling Flow of Controlling Device

Call [***POST/artemis/api/focsign/v1/terminal/control/search***](#) to get the device list for searching devices by page number and device type.

4.11 Intelligent Analysis

4.11.1 Integration Scenario

The intelligent analysis application integration is mostly focused on people counting analysis data, which is commonly applied in the retail/public scenario. The third party software integrates and gets the real-time people counting in the certain area and thereby displays the people counting data subsequently; or the third party software pulls the people counting statistics data within a certain time period, and performs statistics counting by time and area for applications like personnel turnover and operation analysis.

4.11.2 Capability Description

The intelligent analysis provides video application based intelligent analysis data including people counting and heat map statistics.

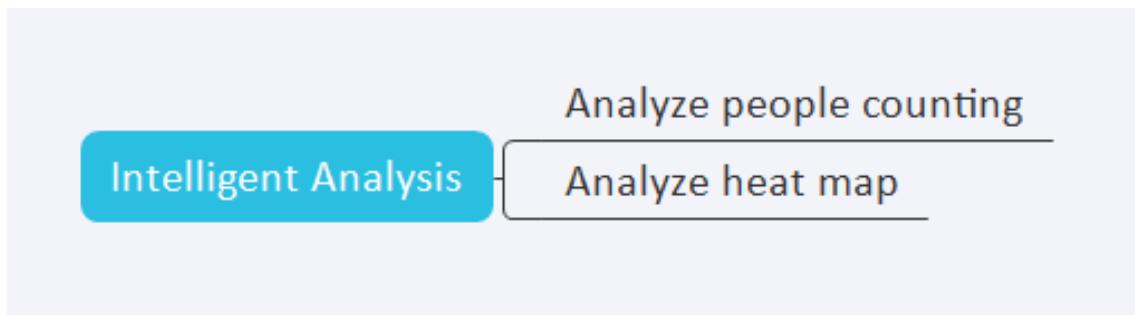


Figure 4-50 Intelligent Analysis Capability Directory

4.11.3 Integration Process

The intelligent analysis application integration process is shown as follows.

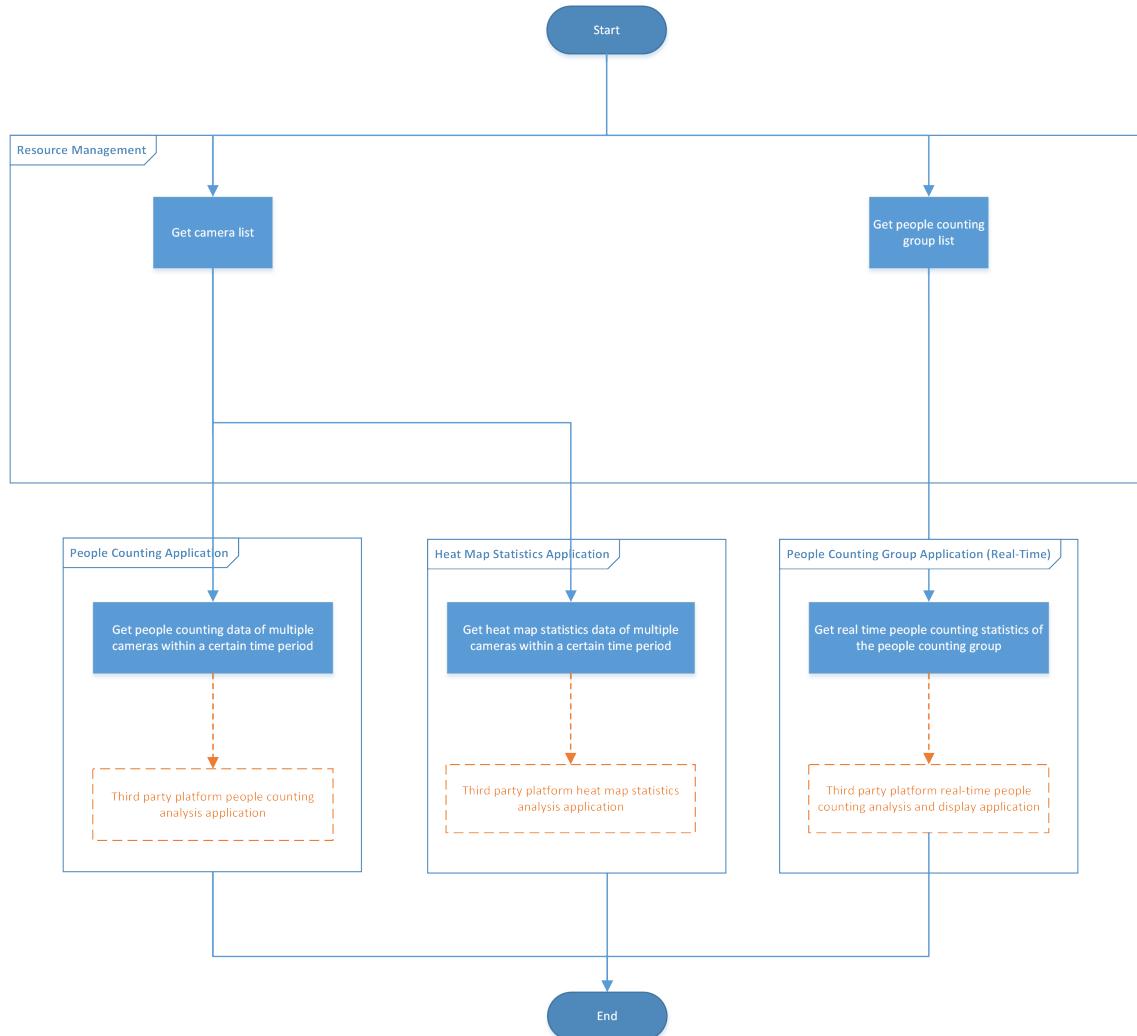


Figure 4-51 Integration Process of Intelligent Analysis

4.11.4 Programming Guide

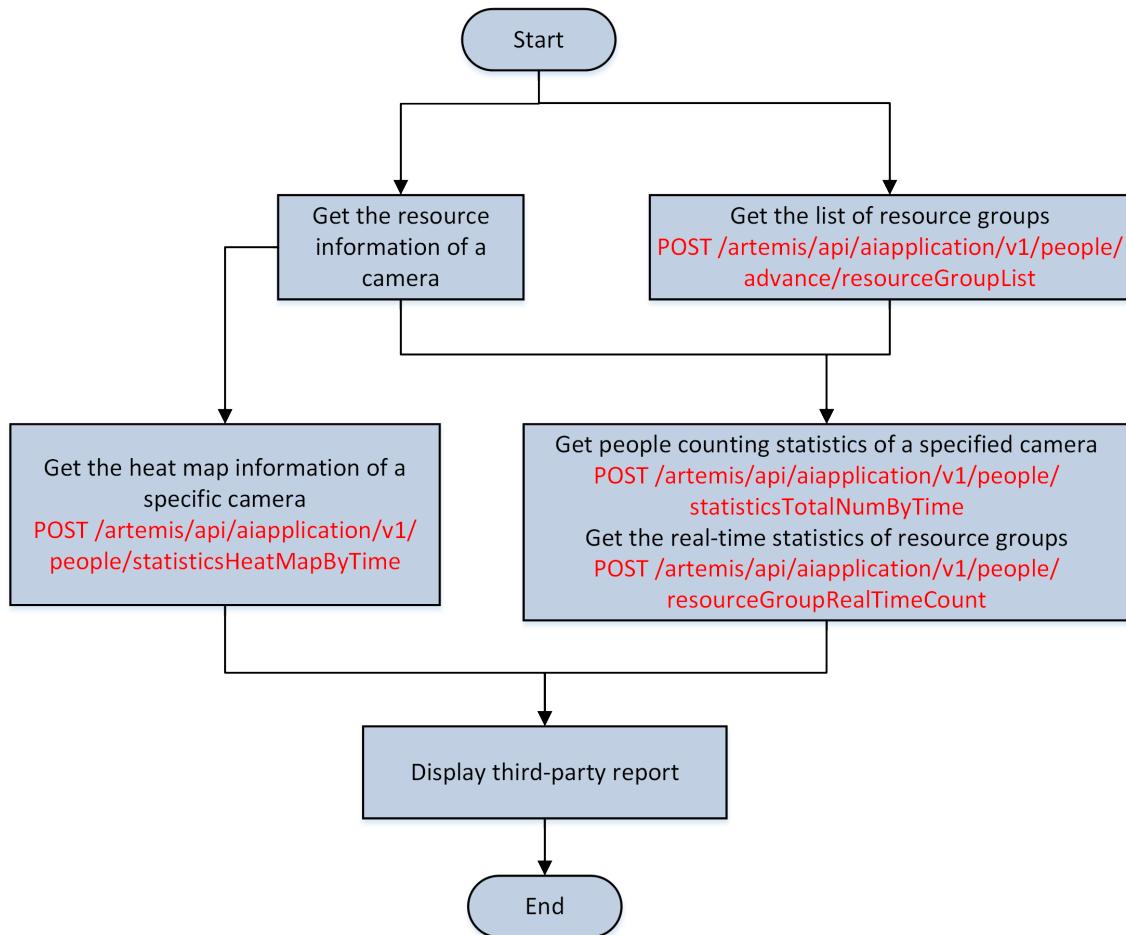


Figure 4-52 API Calling Flow of Intelligent Analysis

Get People Counting Statistics

1. Get camera information from APIs in Manage Logical Resources and call `POST /artemis/api/aiapplication/v1/people/advance/resourceGroupList` to get the list of resource groups.
2. Call `POST /artemis/api/aiapplication/v1/people/statisticsTotalNumByTime` to get the people counting of multiple cameras within a specific time period, and call `POST /artemis/api/aiapplication/v1/people/resourceGroupRealTimeCount` to get the real-time statistics of multiple resource groups.

Get Heat Map Data

1. Get the camera information.
2. Call [***POST /artemis/api/aiapplication/v1/people/statisticsHeatMapByTime***](#) to get the heat map data of multiple cameras within a specific time period.

4.12 Attendance

4.12.1 Capability Description

The attendance application capability provides the daily attendance details including the daily work hours, actual work hours, work duration, etc.

4.12.2 Programming Guide

Get Daily Attendance Details

Call [***POST /artemis/api/attendance/v1/report***](#) to get the person's daily attendance details. This API can be used for getting the information like the start/end of office hours, actual start/end time of working, attendance status, working duration, etc.

4.13 Video Tracing

4.13.1 Capability Description

The video tracing capability is to search for barcode scanning records, get the check point information, and batch import barcode scanning records.

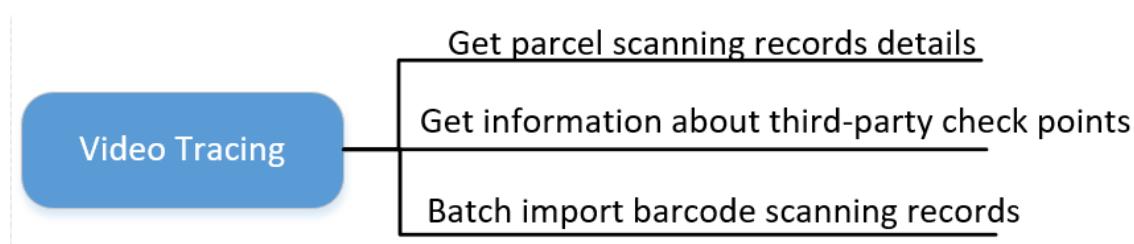


Figure 4-53 Video Tracing Capability Description

4.13.2 Programming Guide

API Calling Flow

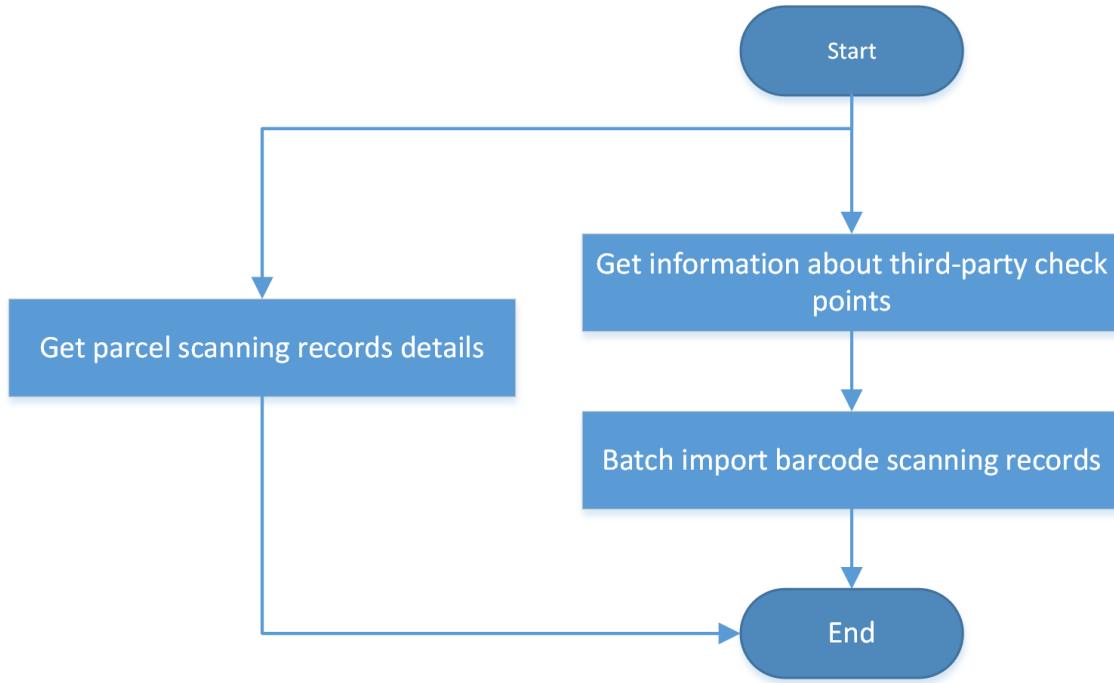


Figure 4-54 Video Tracing Integration API Calling Flow

Video Tracing Related APIs

- Get the parcel scanning records details: [POST /artemis/api/goodsmanager/v1/PackageRecord](#) .
- Get the access schedule template information of the platform: [POST /artemis/api/goodsmanager/v1/GetCheckPointInfo](#) ;
- Get the access schedule template information of the platform: [POST /artemis/api/goodsmanager/v1/ImportPackageRecord](#) .

4.14 Canteen Consumption

4.14.1 Capability Description

The canteen consumption capability includes:

- Getting department information;
- Adding/editing custom payment groups, batch deleting some/all custom payment groups, and getting custom payment groups information;

- Searching for transaction/payment records;
- Getting basic configuration information;
- Managing persons' accounts: adding/deleting persons within custom payment groups, getting persons of a department or a custom payment group, topping up or paying allowance for person's account, and configuring scheduled allowance (batch adding scheduled allowance for persons, editing scheduled allowance for a single person or a whole payment group, batch deleting scheduled allowance configuration for persons, and getting scheduled allowance information of a single person or a whole payment group).

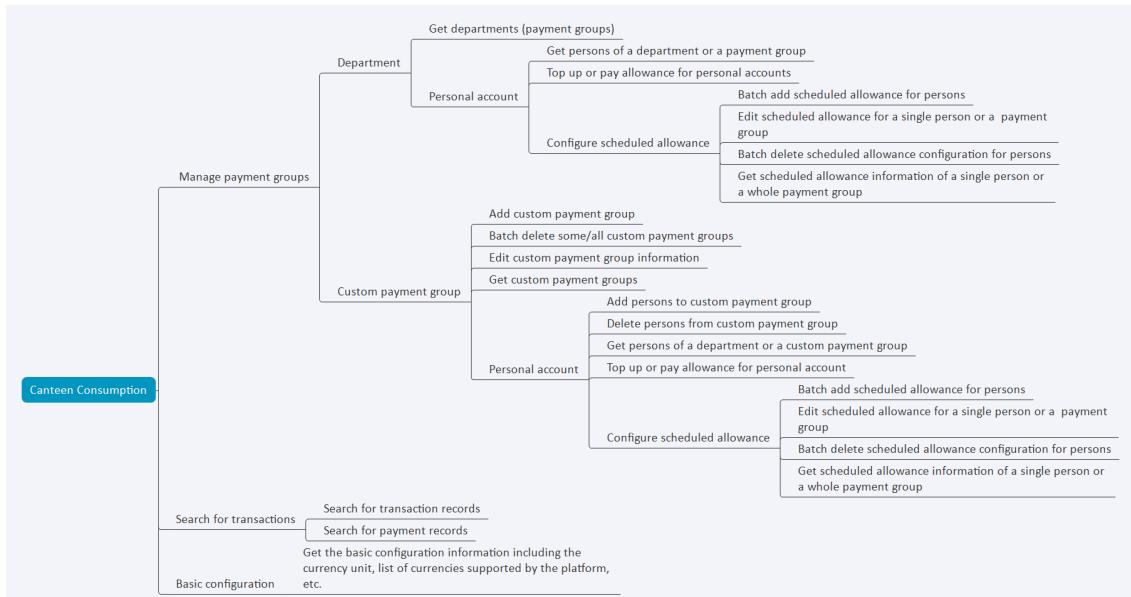


Figure 4-55 Canteen Consumption Capability Directory

4.14.2 Programming Guide

Get Department Information

The existing departments (person information included) will be automatically synchronized to the canteen consumption module as payment groups. To view or configure accounts for persons, the information of departments and belonged persons should be obtained first.

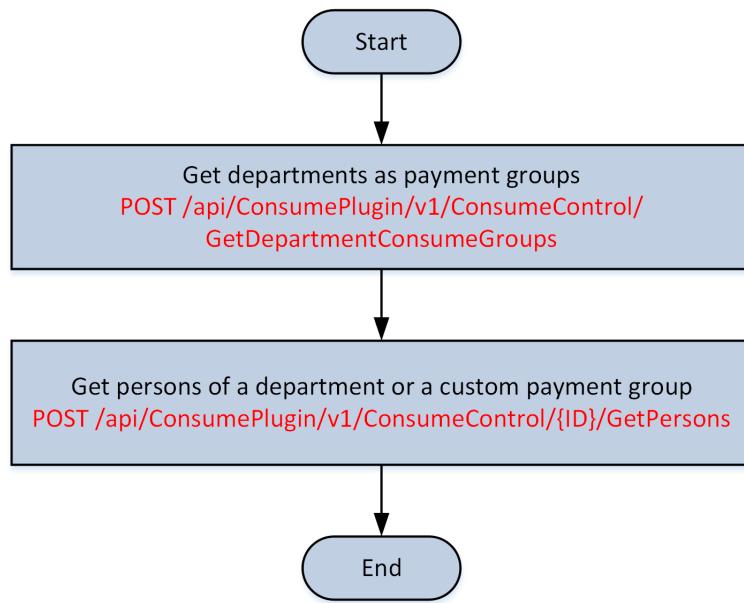


Figure 4-56 API Calling Flow of Getting Department Information

1. Call **`POST /artemis/api/ConsumePlugin/v1/ConsumeControl/GetDepartmentConsumeGroups`** to get department information including the department (payment group) ID, parent department ID, department name, and permission status. The payment group ID can be used for getting information in other APIs.
2. Call **`POST /artemis/api/ConsumePlugin/v1/ConsumeControl/{ID}/GetPersons`** with the obtained department (payment group) ID to get account information of belonged persons.

Manage Custom Payment Groups

Supports adding, editing, or deleting custom payment groups; supports adding/deleting persons (obtained via **`POST /artemis/api/resource/v1/person/personList`**) within a custom payment group. To view or configure accounts for persons of custom payment groups, the information of custom payment groups and belonged persons should be obtained first.

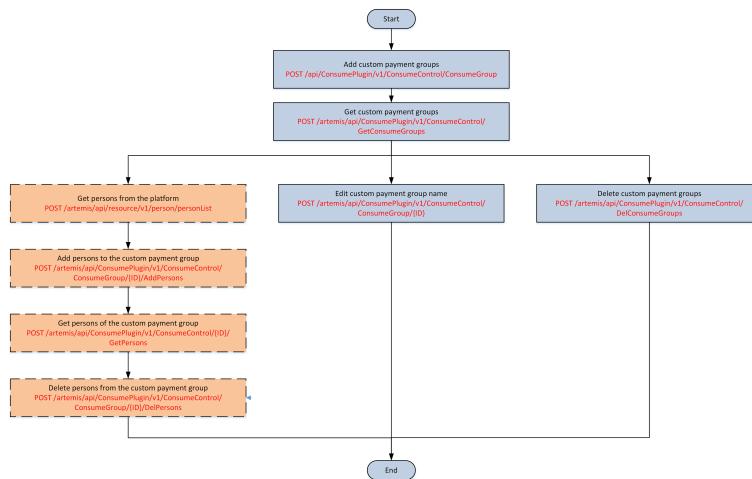


Figure 4-57 API Calling Flow of Managing Custom Payment Groups

1. Call **POST /artemis/api/ConsumePlugin/v1/ConsumeControl/ConsumeGroup** to add custom payment groups;
2. Call **POST /artemis/api/ConsumePlugin/v1/ConsumeControl/GetConsumeGroups** to get custom payment groups;
3. Call **POST /artemis/api/ConsumePlugin/v1/ConsumeControl/ConsumeGroup/{ID}** to edit the custom payment group name, or call **POST /artemis/api/ConsumePlugin/v1/ConsumeControl/DelConsumeGroups** to delete custom payment groups;
(Optional) Call **POST /artemis/api/resource/v1/person/personList** to get persons from the platform;
4. (Optional) Call **POST /artemis/api/ConsumePlugin/v1/ConsumeControl/ConsumeGroup/{ID}/AddPersons** to add persons to the custom payment group;
5. (Optional) Call **POST /artemis/api/ConsumePlugin/v1/ConsumeControl/{ID}/GetPersons** with the obtained payment group ID to get the belonged persons;
6. (Optional) Call **POST /artemis/api/ConsumePlugin/v1/ConsumeControl/ConsumeGroup/{ID}/DelPersons** to delete persons from the custom payment group.

Manage Persons' Accounts

Supports getting persons of departments / custom payment groups; supports topping up, paying allowance, or configuring scheduled allowance for persons.

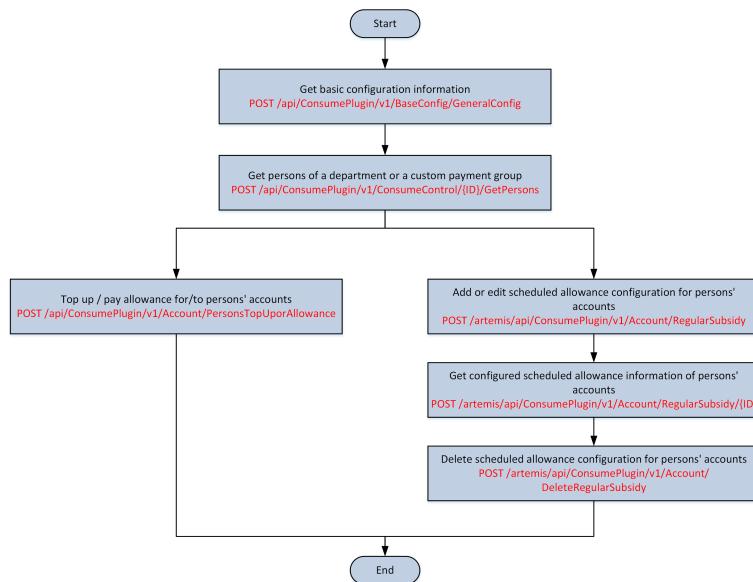


Figure 4-58 API Calling Flow of Managing Persons' Accounts

1. Call ***POST /artemis/api/ConsumePlugin/v1/BaseConfig/GeneralConfig*** to get the basic configuration information including the currency unit, list of currencies supported by the platform, etc.;
2. Call ***POST /artemis/api/ConsumePlugin/v1/ConsumeControl/{ID}/GetPersons*** to get account information of persons of a department or a custom payment group;
3. Call ***POST /artemis/api/ConsumePlugin/v1/Account/PersonsTopUporAllowance*** to top up / pay allowance for/to payment groups or specified persons, or call ***POST /artemis/api/ConsumePlugin/v1/Account/RegularSubsidy*** to add or edit scheduled allowance configuration for payment groups or specified persons;
4. Call ***POST /artemis/api/ConsumePlugin/v1/Account/RegularSubsidy/{ID}*** to get configured scheduled allowance information of payment groups or specified persons.
5. Call ***POST /artemis/api/ConsumePlugin/v1/Account/DeleteRegularSubsidy*** to delete scheduled allowance configuration for payment groups or specified persons.



The money value is in minimum currency unit of the corresponding country/region. For example, in the U.S., if the input value is 100, it stands for 100 cents, i.e., one dollar.

4.15 Education

4.15.1 Capability Description

The education capability is about getting class list, getting teacher organization list, adding class, adding teacher organization, adding student to class, adding teacher to teacher organization,

importing class schedules, getting course attendance summary information, getting class attendance details, getting attendance result of student for a specified time period, getting student retrieval records at school, and getting school arrival records of students.

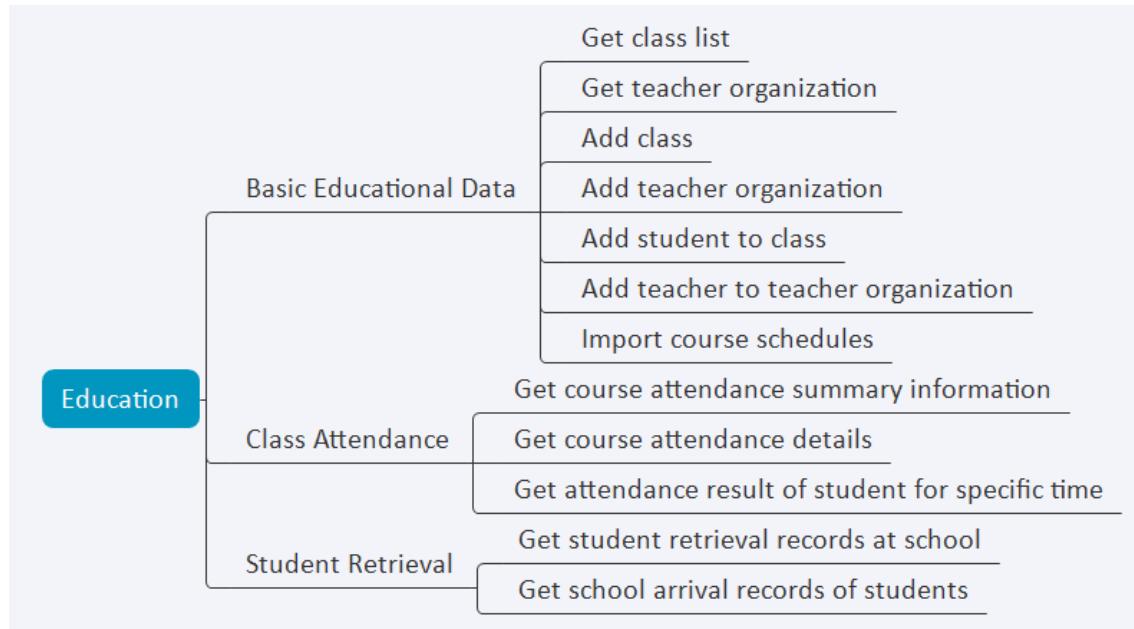


Figure 4-59 Education Capability Directory

4.15.2 Programming Guide

Manage Classes

You can manage classes including getting class list, adding class, and adding students to class.

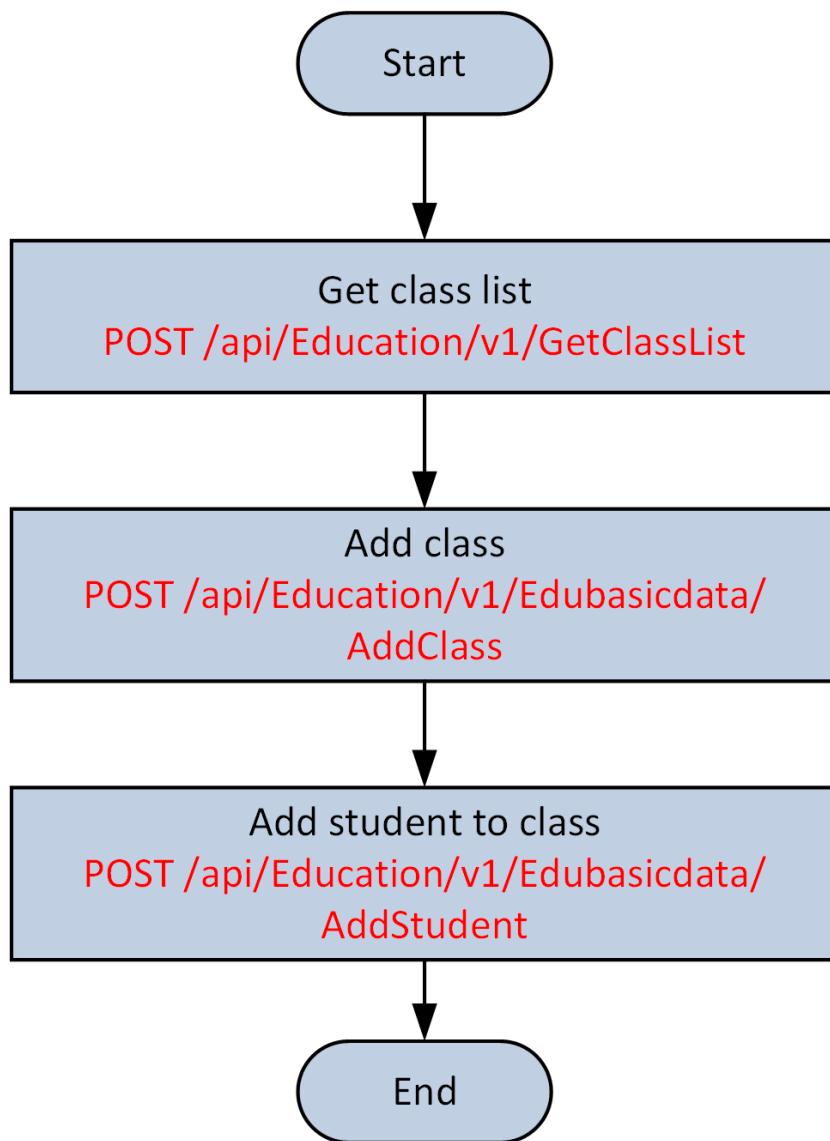


Figure 4-60 API Calling Flow of Managing Classes

1. Call [POST /artemis/api/video/v1/patrols/deletion](#) to get the list of classes.
2. Call [POST /artemis/api/Education/v1/Edubasicdata/AddClass](#) to add class or class area.
3. Call [POST /artemis/api/Education/v1/Edubasicdata/AddStudent](#) to add students to class by class ID returned from step 1.

Manage Teachers

You can manage teachers including getting teacher organization, adding teacher organization, and adding teachers to organization.

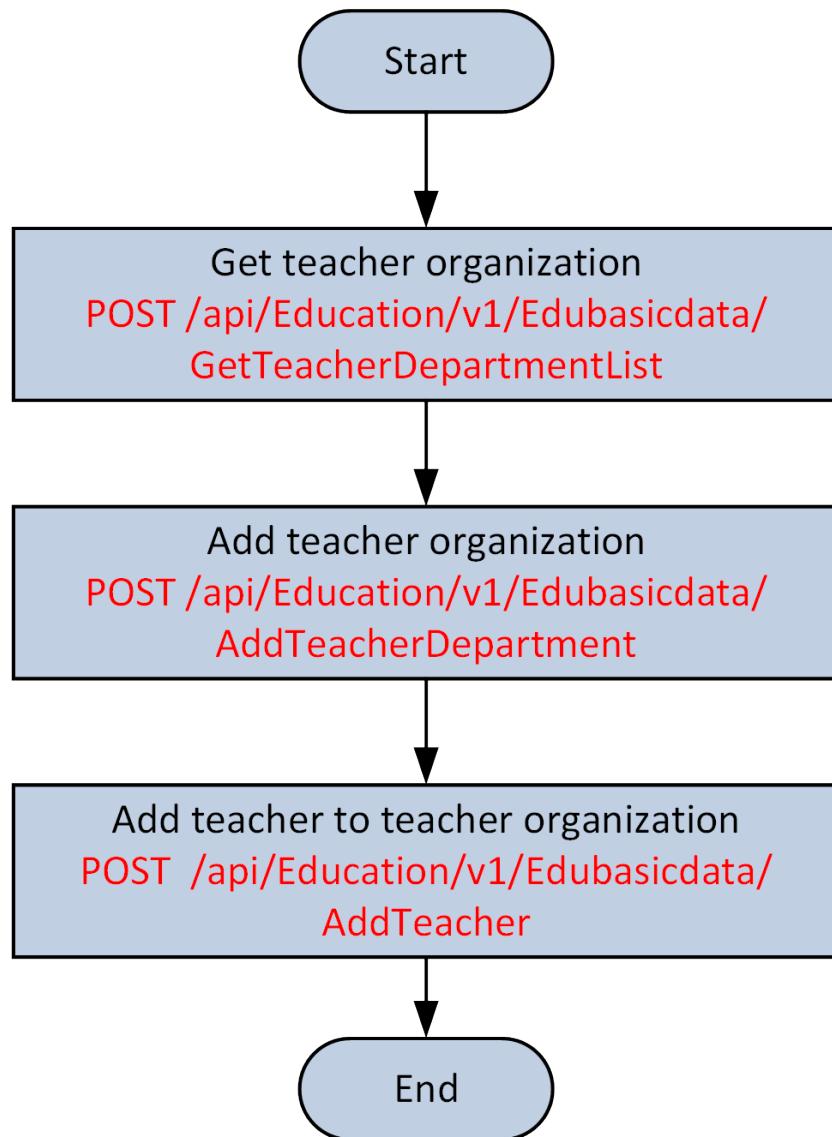


Figure 4-61 API Calling Flow of Managing Teachers

1. Call **`POST /artemis/api/Education/v1/Edubasicdata/GetTeacherDepartmentList`** to get the teacher organization.
2. Call **`POST /artemis/api/Education/v1/Edubasicdata/AddTeacherDepartment`** add teacher organizations.
3. Call **`POST /artemis/api/Education/v1/Edubasicdata/AddTeacher`** to add teachers to organization.

Import Course Schedules

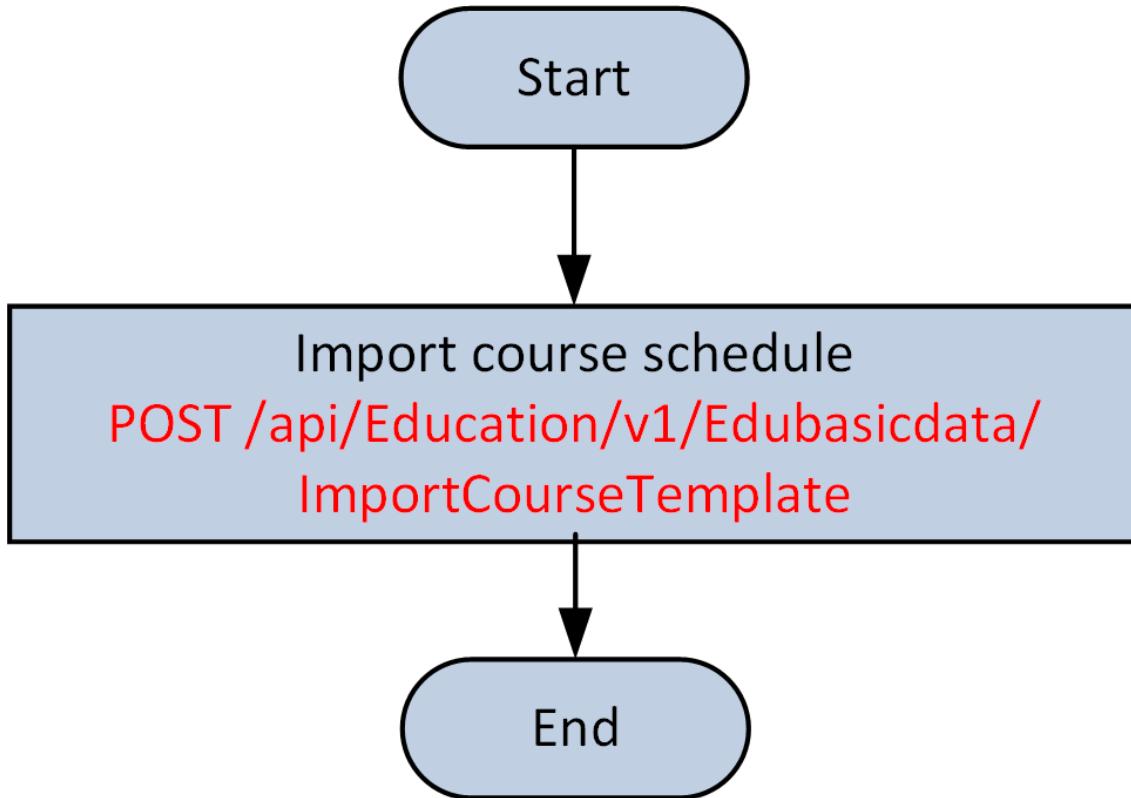


Figure 4-62 API Calling Flow of Importing Course Schedules

Call [POST /artemis/api/Education/v1/Edubasicdata/ImportCourseTemplate](#) to import course schedules to the platform.

Get Course Attendance Records of Class

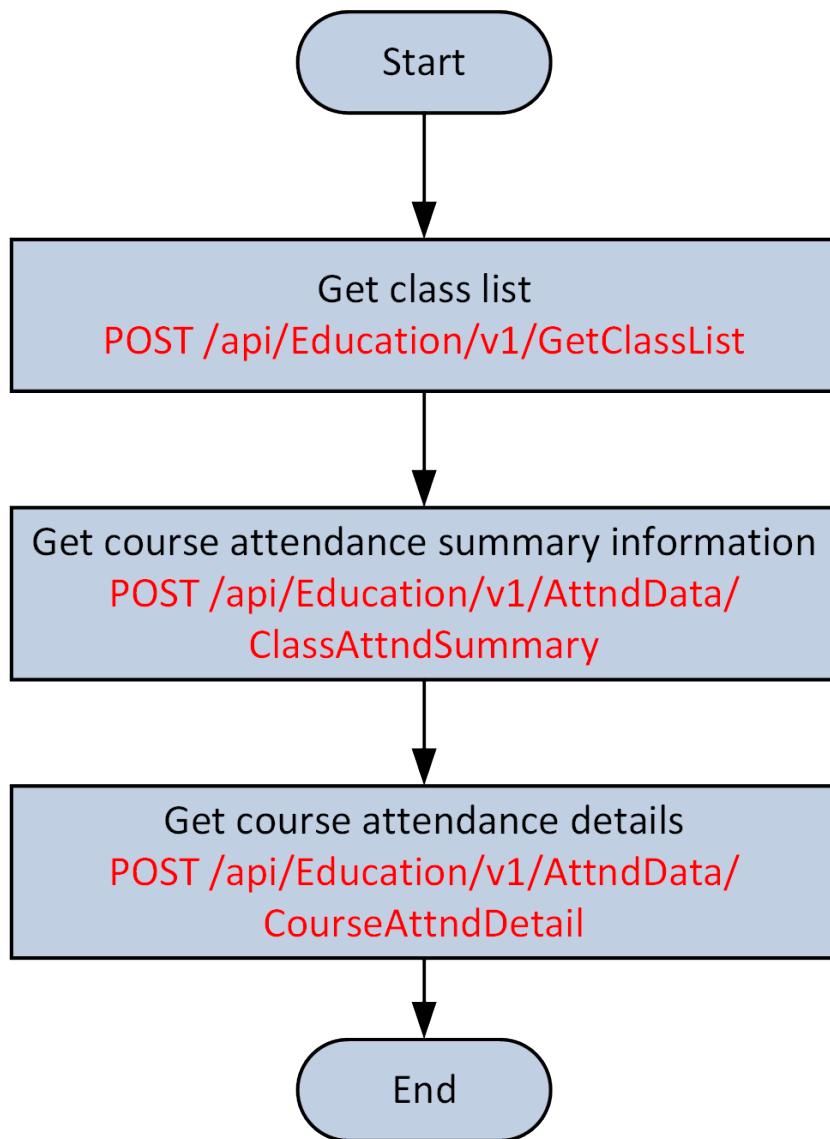


Figure 4-63 API Calling Flow of Getting Course Attendance Records of Class

1. Call [POST /artemis/api/video/v1/patrols/deletion](#) to get the class list.
2. Call [POST /artemis/api/Education/v1/AttndData/ClassAttndSummary](#) to get the course attendance summary information of the class by class ID returned from step 1.
3. Call [POST /artemis/api/Education/v1/AttndData/CourseAttndDetail](#) to get the course attendance details by course ID returned from step 2.

Get Attendance Result of Student for Specified Time Period

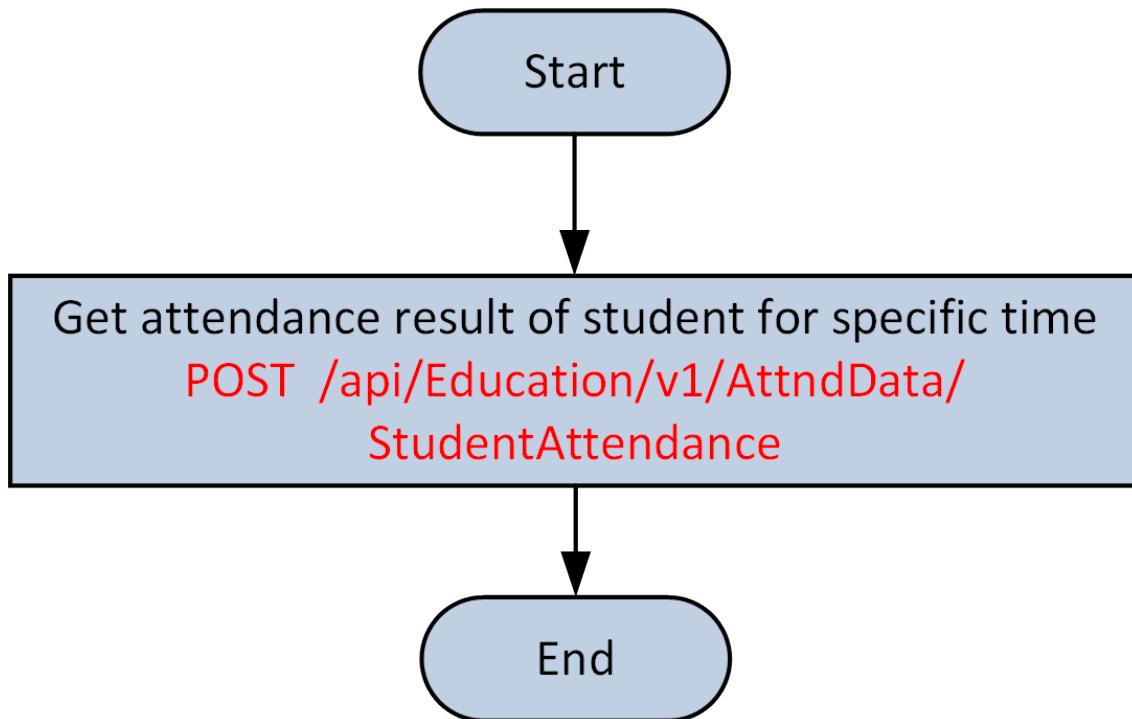


Figure 4-64 API Calling Flow of Getting Attendance Result of Student for Specified Time Period

Call **POST /artemis/api/Education/v1/AtndData/StudentAttendance** to get the attendance result of a student for specified time period. The maximum time period for search is 365 days.

Get Student Retrieval Records at School

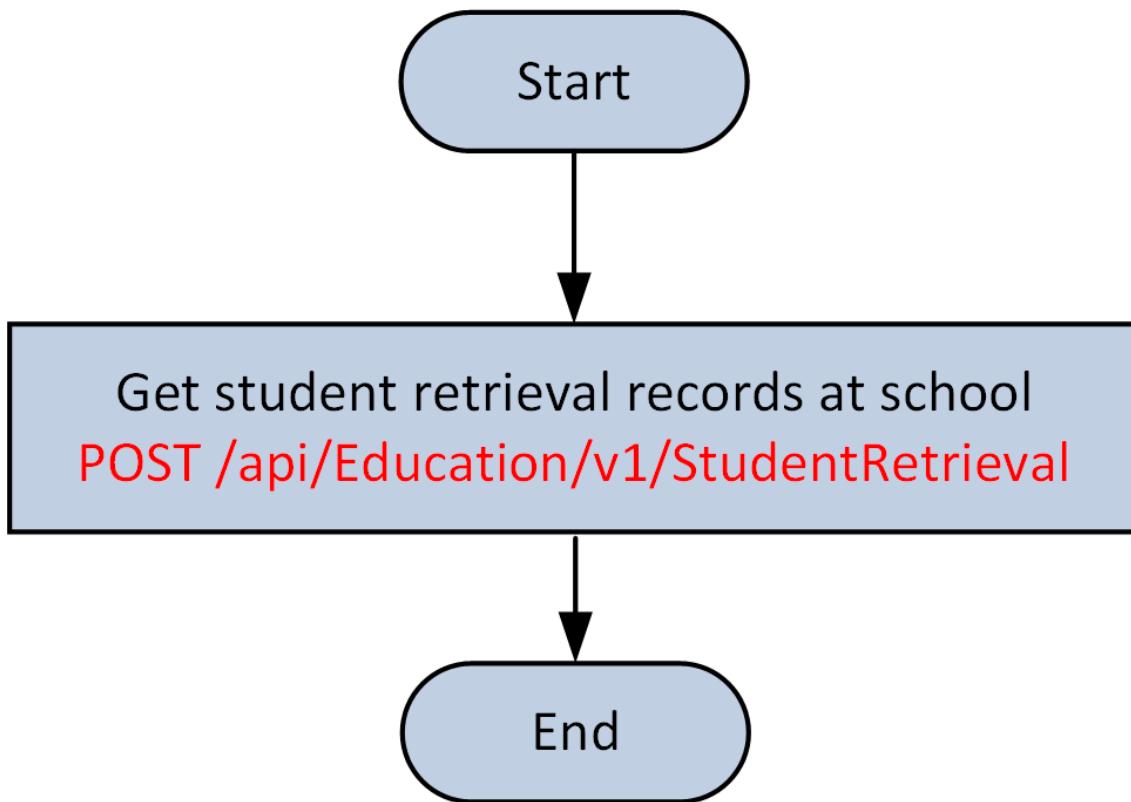


Figure 4-65 API Calling Flow of Getting Student Retrieval Records at School

Call ***POST /artemis/api/Education/v1/StudentRetrieval*** to get the retrieval records of students at school (including access records, attendance check records, face capture comparison records, etc.). The maximum time period for search is 31 days.

Get School Arrival Record of Student

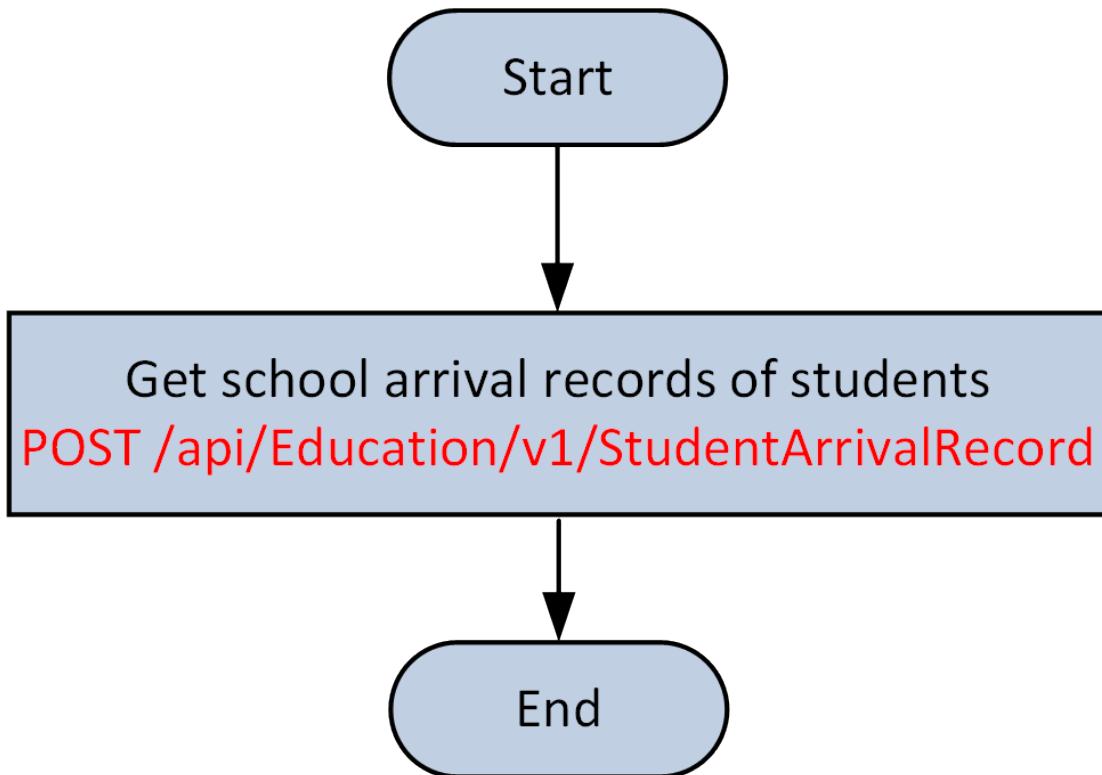


Figure 4-66 API Calling Flow of Getting School Arrival Record of Student

Call [**POST /artemis/api/Education/v1/StudentArrivalRecord**](#) to get the school arrival records of a student for specified time period. The maximum time period for search is 31 days.

4.15.3 Restrictions and Suggestions

1. As the returned person's name will be encrypted via HTTP, it is recommended to set the transmission protocol between the HikCentral Professional platform and browser to HTTPS. The relevant APIs and parameters are as follows:
 - The response parameter **StudentName** in [**POST /artemis/api/Education/v1/AtndData/CourseAtndDetail**](#) ;
 - The response parameters **TeacherName** and **StudentName** in [**POST /artemis/api/Education/v1/AtndData/StudentAttendance**](#) ;
 - The response parameter **StudentName** in [**POST /artemis/api/Education/v1/StudentArrivalRecord**](#) .
2. For adding classes, the **ClassType** of class or class area to be added should match the one of the parent node. When the parent node is -1, it indicates the class will be added to the root node, whether **ClassType** is 0 (core class) or 1 (elective class).

3. You can only add class area and cannot add class to the root node.
4. If there is already class area existing under the parent node, you can only add class area to this parent node, not class; if there is already class existing under the parent node, you can only add class to this parent node, not class area.
5. For class areas, up to 5 levels (root node excluded) are allowed.
6. For adding class or class area, you can link teachers to each class or class area as administrators. For each class area, up to 10 teachers as administrators are allowed; for each class, up to 5 teachers as administrators are allowed.
7. For adding students, the **ClassType** of student to be added should match the one of the actual class.
8. You can only add students to classes of which **IsClass** is 1; when **IsClass** is 0, it is a class area where students cannot be added.
9. For adding students to core class, **ClassYear** is required.
10. If the students to be added have not been added to the person management module on the platform, you can add the student information to the platform person management via the student adding API, and the students will be added to the student group in person management by default.
11. If the students to be added have not been added to the person management module on the platform, it is recommended to add no more than 10 students at a time, or the API might time out.
12. For adding teacher organizations, up to 5 levels (root node excluded) are allowed.
13. The parent node parameter is optional, and is -1 by default when it is not configured, which indicates adding teacher organization to the root node.
14. If the teachers to be added have not been added to the person management module on the platform, you can add the teacher information to the platform person management via the teacher adding API, and the teachers will be added to the teacher group in person management by default.
15. If the teachers to be added have not been added to the person management module on the platform, it is recommended to add no more than 10 teachers at a time, or the API might time out.

Chapter 5 API Reference

5.1 Common API

Here provides an API for getting version information.

5.1.1 POST /artemis/api/common/v1/version

Get version information of platform.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/common/v1/version](https://[serverAddress]:[serverPort]/artemis/api/common/v1/version)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Req.	Object	Version information. See details in Version .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "produceName": "VMSPlatform",
    "softVersion": "V2.1.0.0"
  }
}
```

5.2 Physical Resources API

Here provides APIs for the management of encoding devices, access control devices, Streaming Servers, Recording Servers, DeepinMind Servers, and System Management Servers.

5.2.1 POST /artemis/api/resource/v1/acsDevice/acsDeviceList

Get the information list of all access control devices, and all information is returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/acsDevice/acsDeviceList](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/acsDevice/acsDeviceList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.

Request Example

```
{
  "pageNo": 1,
```

```

    "pageSize": 2
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	List of access control device information.
list[0]	Opt.	Object	Information of an access control device in the list. See details in AcsDevInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 4,
    "pageNo": 1,
    "pageSize": 2,
    "list": [
      {
        "acsDevIndexCode": "46",
        "acsDevName": "10.18.64.39",
        "acsDevIp": "10.18.64.39",
        "acsDevPort": "9502",
        "treatyType": "hiksdk_net",
        "acsDevStatus": "Normal"
      }
    ]
  }
}
```

```

    "acsDevCode": "DS-K1T671TM-3XF20210308V030202ENE43116796",
    "status": 2
},
{
    "acsDevIndexCode": "13",
    "acsDevName": "10.18.66.112",
    "acsDevIp": "10.18.66.112",
    "acsDevPort": "8005",
    "treatyType": "hksdk_net",
    "acsDevCode": "DS-K1T680MF-E120210303V030203ENE33392121",
    "status": 2
}
]
}
}

```

5.2.2 POST /artemis/api/resource/v1/acsDevice/indexCode/acsDeviceInfo

Get the information of an access control device by device ID.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/acsDevice/indexCode/acsDeviceInfo](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/acsDevice/indexCode/acsDeviceInfo)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? < >
acsDevIndexCode	Req.	String	Body	Access control device ID, which consists of up to 64 characters.

Request Example

```
{
    "acsDevIndexCode": "46"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Access control device information. See details in AcsDevInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "acsDevIndexCode": "46",
    "acsDevName": "10.18.64.39",
    "acsDevIp": "10.18.64.39",
    "acsDevPort": "9502",
    "treatyType": "hiksdk_net",
    "acsDevCode": "DS-K1T671TM-3XF20210308V030202ENE43116796",
    "status": 2
  }
}
```

5.2.3 POST /artemis/api/resource/v1/acsDevice/advance/acsDeviceList

Set search condition (i.e., device name) to search the specified access control devices, and fuzzy search is supported; if the search condition is not configured, the information of all access control devices will be returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/acsDevice/advance/acsDeviceList](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/acsDevice/advance/acsDeviceList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
acsDevName	Opt.	String	Body	Access control device name, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >

Request Example

```
{
  "pageNo": 1,
  "pageSize": 10,
  "acsDevName": "10.18.64.39"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.

Parameter	Req. or Opt.	Data Type	Description
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Information list of access control devices.
list[0]	Opt.	Object	Information of an access control device in the list. See details in <u>AcsDevInfo</u> .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 1,
    "pageNo": 1,
    "pageSize": 10,
    "list": [
      {
        "acsDevIndexCode": "46",
        "acsDevName": "10.18.64.39",
        "acsDevIp": "10.18.64.39",
        "acsDevPort": "9502",
        "treatyType": "hiksdk_net",
        "acsDevCode": "DS-K1T671TM-3XF20210308V030202ENE43116796",
        "status": 2
      }
    ]
  }
}
```

5.2.4 POST /artemis/api/resource/v1/encodeDevice/encodeDeviceList

Get the information list of all encoding devices by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/encodeDevice/encodeDeviceList](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/encodeDevice/encodeDeviceList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, 1 to 32 characters, excluding special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No.: [1,2147483647].
pageSize	Req.	Number	Body	Number of records on each page: [1, 500].

Request Example

```
{
  "pageNo": 1,
  "pageSize": 2
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.

Parameter	Req. or Opt.	Data Type	Description
list	Opt.	Array	Encoding device information list.
list[0]	Opt.	Object	Information of an encoding device in the list. See details in EncodeDeviceInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 19,
    "pageNo": 1,
    "pageSize": 2,
    "list": [
      {
        "encodeDevIndexCode": "86",
        "encodeDevName": "10.41.13.38_",
        "encodeDevIp": "10.41.13.38",
        "encodeDevPort": "8000",
        "encodeDevCode": "DS-9632NI-I81620210322CCRRF71031387WCVU",
        "treatyType": "hksdk_net",
        "isSupportWakeUp": 0,
        "wakeUpStatus": 0,
        "status": 1,
        "pictureStorePosType": 1
      },
      {
        "encodeDevIndexCode": "85",
        "encodeDevName": "10.18.66.25",
        "encodeDevIp": "10.18.66.25",
        "encodeDevPort": "9000",
        "encodeDevCode": "SimulatorDevice",
        "treatyType": "hksdk_net",
        "isSupportWakeUp": 0,
        "wakeUpStatus": 0,
        "status": 2,
        "pictureStorePosType": 1
      }
    ]
  }
}
```

5.2.5 POST /artemis/api/resource/v1/encodeDevice/indexCode/encodeDeviceInfo

Get the information of an encoding device by device ID.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/encodeDevice/indexCode/encodeDeviceInfo](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/encodeDevice/indexCode/encodeDeviceInfo)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, 1 to 32 characters, excluding special characters like '/ \ : * ? " < >
encodeDevIndexCode	Req.	String	Body	Encoding device ID, which consists of up to 64 characters.

Request Example

```
{
  "encodeDevIndexCode": "85"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Encoding device information. See details in EncodeDeviceInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
```

```

"data": {
    "encodeDevIndexCode": "85",
    "encodeDevName": "10.18.66.25",
    "encodeDevIp": "10.18.66.25",
    "encodeDevPort": "9000",
    "encodeDevCode": "SimulatorDevice",
    "treatyType": "hiksdk_net",
    "isSupportWakeUp": 0,
    "wakeUpStatus": 0,
    "status": 2,
    "pictureStorePosType": 1
}
}

```

5.2.6 POST /artemis/api/resource/v1/encodeDevice/advance/encodeDeviceList

Set search conditions (i.e., device name) to search the specified encoding devices, and fuzzy search is supported; if no search condition is configured, the information of all encoding devices will be returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/encodeDevice/advance/encodeDeviceList](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/encodeDevice/advance/encodeDeviceList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, 1 to 32 characters, excluding special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No.: [1, 2147483647].
pageSize	Req.	Number	Body	Number of records on each page: [1, 500].
encodeDevName	Opt.	String	Body	Encoding device name, 1 to 32 characters, excluding special characters like '/ \ : * ? " < >

Request Example

```
{
    "pageNo": 1,
```

```
"pageSize": 10,
"encodeDevName": "10.18.66.25",
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Encoding device information list.
list[0]	Opt.	Object	Information of an encoding device in the list. See details in EncodeDeviceInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 1,
    "pageNo": 1,
    "pageSize": 10,
    "list": [
      {
        "encodeDevIndexCode": "85",
        "encodeDevName": "10.18.66.25",
        "encodeDevIp": "10.18.66.25",
        "encodeDevPort": "9000",
        "encodeDevCode": "SimulatorDevice",
        "treatyType": "hiksdk_net",
        "isSupportWakeUp": 0,
```

```

        "wakeUpStatus": 0,
        "status": 2,
        "pictureStorePosType": 1
    }
}
}
}

```

5.2.7 POST /artemis/api/resource/v1/device/indexCode/wakeUp

Wake up solar device.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/resource/v1/device/indexCode/wakeUp](https://[serverAddress]:[serverPort]/arTEMIS/resource/v1/device/indexCode/wakeUp)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
deviceIndexCode	Req.	String	Body	Device ID.
cameraIndexCode	Opt.	String	Body	Camera ID.

Request Example

```
{
    "deviceIndexCode": "1",
    "cameraIndexCode": "1"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the

Parameter	Req. or Opt.	Data Type	Description
			code, refer to Status or Error Code for details. Each description can contain up to 256 characters.

Response Example

```
{
  "code": "0",
  "msg": "Success"
}
```

5.2.8 POST /artemis/api/resource/v1/intelligentServer/intelligentServerList

Get DeepinMind Server list to synchronize all device information. The information of all servers will be returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/intelligentServer/intelligentServerList](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/intelligentServer/intelligentServerList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, 1 to 32 characters, excluding special characters like '/ \ : * ? < >
pageNo	Req.	Number	Body	The current page No.: [1, 2147483647].
pageSize	Req.	Number	Body	Number of records on each page: [1, 500].

Request Example

```
{
  "pageNo": 1,
  "pageSize": 2
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Returned status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Information list of DeepinMind Servers.
list[0]	Opt.	Object	Information of a DeepinMind Server, refer to IntelligentServerInfo for details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 4,
    "pageNo": 1,
    "pageSize": 2,
    "list": [
      {
        "intelligentServerIndexCode": "1",
        "intelligentServerName": "10.41.7.96",
        "intelligentServerIp": "10.41.7.96",
        "status": 1
        "intelligentServerType": 0
      },
      {
        "intelligentServerIndexCode": "2",
        "intelligentServerName": "10.41.7.97",
        "intelligentServerIp": "10.41.7.97",
        "status": 1
        "intelligentServerType": 0
      }
    ]
  }
}
```

```
        "intelligentServerName": "10.19.167.130",
        "intelligentServerIp": "10.19.167.130",
        "status": 0
        "intelligentServerType": 0
    }
]
}
}
```

5.2.9 POST /artemis/api/resource/v1/mobileDevice/mobileDeviceList

Get the on-board device list in page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/mobileDevice/mobileDeviceList](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/mobileDevice/mobileDeviceList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.

Request Example

```
{
    "pageNo": 1,
    "pageSize": 2
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Req.	PageInfo	Response data details.

PageInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	MobileDeviceInfo	On-board device list.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 1,
    "pageNo": 1,
    "pageSize": 2,
    "list": [
      {
        "mobileDevIndexCode": "1",
        "mobileDevName": "10.18.66.164",
        "mobileDevIp": "",
        "mobileDevPort": "0",
        "mobileDevCode": "20210225WRF58663372",
        "treatyType": "ehome_reg",
        "status": 2
      }
    ]
  }
}
```

```

    ]
}
}
```

5.2.10 POST /artemis/api/resource/v1/mobileDevice/indexCode/mobileDeviceInfo

Get the information of an on-board device by device ID.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/mobileDevice/indexCode/mobileDeviceInfo](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/mobileDevice/indexCode/mobileDeviceInfo)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like ' / \ : * ? < >
mobileDevIndexCode	Req.	String	Body	On-board device ID. The maximum length is 64 characters.

Request Example

```
{
  "mobileDevIndexCode ":"1"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code.

Parameter	Req. or Opt.	Data Type	Description
			code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Req.	MobileDevInfo	Response data details. See details in <u>MobileDeviceInfo</u> .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "mobileDevIndexCode": "1",
    "mobileDevName": "10.18.66.164",
    "mobileDevIp": "",
    "mobileDevPort": "0",
    "mobileDevCode": "20210225WRF58663372",
    "treatyType": "ehome_reg",
    "status": 2
  }
}
```

5.2.11 POST /artemis/api/resource/v1/mobileDevice/advance/mobileDeviceList

Search the on-board device list.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/mobileDevice/advance/mobileDeviceList](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/mobileDevice/advance/mobileDeviceList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
mobileDevName	Opt.	String	Body	On-board device resource name. The maximum length is 128 characters.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 2,
  "mobileDevName": "10.18.64.39"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Req.	PageInfo	Response data details.

PageInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	MobileDevInfo[]	On-board device list. See details in MobileDeviceInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 1,
    "pageNo": 1,
    "pageSize": 2,
    "list": [
      {
        "mobileDevIndexCode": "1",
        "mobileDevName": "10.18.66.164",
        "mobileDevIp": "",
        "mobileDevPort": "0",
        "mobileDevCode": "20210225WRF58663372",
        "treatyType": "ehome_reg",
        "status": 2
      }
    ]
  }
}
```

5.2.12 POST /artemis/api/resource/v1/recordServer/recordServerList

Get Recording Server list.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/recordServer/recordServerList](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/recordServer/recordServerList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 2
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Returned status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.

Parameter	Req. or Opt.	Data Type	Description
list	Opt.	Array	Information list of Recording Servers.
list[0]	Opt.	Object	Information of a Recording Server, refer to <u>RecordServerInfo</u> for details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 2,
    "pageNo": 1,
    "pageSize": 2,
    "list": [
      {
        "recordServerIndexCode": "1",
        "recordServerName": "10.41.7.232",
        "recordServerIp": "10.41.7.232",
        "recordingStatus": 2,
        "networkStatus": 1
      },
      {
        "recordServerIndexCode": "4",
        "recordServerName": "10.18.66.214",
        "recordServerIp": "10.18.66.214",
        "recordingStatus": 1,
        "networkStatus": 2
      }
    ]
  }
}
```

5.2.13 POST /artemis/api/resource/v1/recordServer/indexCode/recordServerInfo

Get information of a Recording Server by server ID.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/recordServer/indexCode/recordServerInfo](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/recordServer/indexCode/recordServerInfo)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
recordServerIndexCode	Req.	String	Body	Recording Server ID, which consists of up to 10 characters.

Request Example

```
{
  "recordServerIndexCode": "1"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Returned status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Information of a Recording Server, refer to RecordServerInfo for details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "recordServerIndexCode": "1",
    "recordServerName": "10.41.7.232",
    "recordServerIp": "10.41.7.232",
```

```

"recordingStatus": 2,
"networkStatus": 1,
"hdList": [
  {
    "poolID": "0",
    "poolName": "RV_1",
    "Capacity": 821568,
    "FreeSpace": 712317,
    "UsedSpace": 109251
  },
  {
    "poolID": "1",
    "poolName": "PIC_RV_1",
    "Capacity": 9310,
    "FreeSpace": 9310,
    "UsedSpace": 0
  }
]
}

```

5.2.14 POST /artemis/api/resource/v1/recordServer/recordStatus

Get the storage status of cameras linked to a specific Recording Server.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/recordServer/recordStatus](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/recordServer/recordStatus)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < > .
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
recordServerIndexCode	Req.	String	Body	Recording Server ID, which consists of up to 64 characters.
poolID	Req.	String	Body	Resource pool ID, which consists of up to 32 characters.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 2,
  "recordServerIndexCode": "1",
  "poolID": "0"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Returned status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
recordServerIndexCode	Opt.	String	Recording Server ID, which consists of up to 64 characters.
recordServerName	Opt.	String	Recording Server name, which consists of up to 64 characters.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Information list of Recording Servers.

Parameter	Req. or Opt.	Data Type	Description
recordServerIp	Opt.	String	IP address of Recording Server, whose maximum length is 64 bytes.
recordingStatus	Opt.	Number	Video status: 0-unknown, 1-normal, 2-exception.
networkStatus	Opt.	Number	Network status: 0-unknown, 1-online, 2-offline.
total	Opt.	Number	Total number of data records.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Storage status list of cameras linked to a Recording Server.
list[0]	Opt.	Object	Storage status of a camera linked to a Recording server, refer to <i>CameraRecordStatus</i> for details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 1,
    "pageNo": 1,
    "pageSize": 2,
    "recordServerIndexCode": "1",
    "recordServerName": "10.41.7.232",
    "recordServerIp": "10.41.7.232",
    "recordingStatus": 2,
    "networkStatus": 1,
    "list": [
      {
        "regionName": "10.18.65.98",
        "deviceIp": "10.18.65.98",
        "cameraName": "Camera 01",
        "cameraIndexCode": "103",
        "networkStatus": 2,
        "recordingScheduleName": "",
        "recordingStatus": 2,
        "siteName": "VMSPlatform",
        "storageType": 1
      }
    ]
  }
}
```

```

    }
}
```

5.2.15 POST /artemis/api/resource/v1/streamServer/streamServerList

Get Streaming Service list.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/streamServer/streamServerList](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/streamServer/streamServerList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 2
}
```

Response Parameters

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

Parameter	Req. or Opt.	Data Type	Description
			Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to <u>Status or Error Code</u> for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Information list of Streaming Servers.
list[0]	Opt.	Object	Information of a Streaming Server, refer to <u>StreamServerInfo</u> for details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 4,
    "pageNo": 1,
    "pageSize": 2,
    "list": [
      {
        "acsDevIndexCode": "46",
        "acsDevName": "10.18.64.39",
        "acsDevIp": "10.18.64.39",
        "acsDevPort": "9502",
        "treatyType": "hksdk_net",
        "acsDevCode": "DS-K1T671TM-3XF20210308V030202ENE43116796",
        "status": 2
      },
      {
        "acsDevIndexCode": "13",
        "acsDevName": "10.18.66.112",
        "acsDevIp": "10.18.66.112",
        "acsDevPort": "8005",
        "treatyType": "hksdk_net",
        "acsDevCode": "DS-K1T680MF-E120210303V030203ENE33392121",
        "status": 2
      }
    ]
  }
}
```

```

        }
    ]
}
}
```

5.2.16 POST /artemis/api/resource/v1/videoManagementServer

Get the information of the System Management Server.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/videoManagementServer](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/videoManagementServer)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < > .

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Returned status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Information of the System Management Server.
ip	Opt.	String	IP address of the server, and the maximum length is 64 bytes.
port	Opt.	Number	Port No. of the server.

Parameter	Req. or Opt.	Data Type	Description
cpu	Opt.	Number	CPU usage of the server.
status	Opt.	Number	Network status: 0-online, 1-offline.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "ip": "127.0.0.1",
    "port": 443,
    "cpu": 90,
    "status": 0
  }
}
```

5.3 Logical Resources API

Here provides APIs for the management of sites, areas, cameras, alarm inputs, alarm outputs, vehicles, access points, organizations, persons, face picture libraries, face pictures, visitors, access levels, and access groups.

5.3.1 Site Information

POST /artemis/api/resource/v1/site/siteList

Get the information list of all sites, and all information is returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/site/siteList](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/site/siteList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
pageNo	Opt.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Opt.	Number	Body	Number of records on each page, which is between 1 and 500.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 2
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Opt.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Opt.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Site information list.
list[0]	Opt.	Object	Information of a site in the list. See details in SiteInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 2,
    "pageNo": 1,
    "pageSize": 2,
    "list": [
      {
        "siteIndexCode": "0",
        "siteName": "VMSPlatform",
        "siteIp": "10.41.7.232",
        "sitePort": "0",
        "description": ""
      },
      {
        "siteIndexCode": "17",
        "siteName": "VMSPlatform",
        "siteIp": "10.18.66.21",
        "sitePort": "80",
        "description": ""
      }
    ]
  }
}
```

POST /artemis/api/resource/v1/site/indexCode/siteInfo

Get the information of a site by site ID.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/site/indexCode/siteInfo](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/site/indexCode/siteInfo)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? < >
siteIndexCode	Req.	String	Body	Site ID, which consists of up to 64 characters.

Request Example

```
{
  "siteIndexCode": "17"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Site information. See details in SiteInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "siteIndexCode": "17",
    "siteName": "VMSPlatform",
    "siteIp": "10.18.66.21",
    "sitePort": "80",
    "description": ""
  }
}
```

POST /artemis/api/resource/v1/site/advance/siteList

Set search condition (i.e., site name) to search the specified site, and fuzzy search is supported; if the search condition is not configured, the information of all sites will be returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/site/advance/siteList](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/site/advance/siteList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
siteName	Opt.	String	Body	Site name, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >

Request Example

```
{
  "pageNo": 1,
  "pageSize": 10,
  "siteName": "VMSPlatform"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.

Parameter	Req. or Opt.	Data Type	Description
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Site information list.
list[0]	Opt.	Object	Information of a site in the list. See details in <i>SiteInfo</i> .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 2,
    "pageNo": 1,
    "pageSize": 10,
    "list": [
      {
        "siteIndexCode": "0",
        "siteName": "VMSPlatform",
        "sitelp": "10.41.7.232",
        "sitePort": "0",
        "description": ""
      },
      {
        "siteIndexCode": "17",
        "siteName": "VMSPlatform",
        "sitelp": "10.18.66.21",
        "sitePort": "80",
        "description": ""
      }
    ]
  }
}
```

5.3.2 Area Information

POST /artemis/api/resource/v1/regions/subRegions

Get the area list of a specified parent area by resource type and permission.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/regions/subRegions](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/regions/subRegions)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
parentIndexCode	Opt.	String	Body	Parent area No., which consists of up to 64 characters. By default, it is the root area.
siteIndexCode	Opt.	String	Body	Site ID, which consists of up to 64 characters. By default, it is the current site.

Request Example

```
{
  "siteIndexCode": "0",
  "parentIndexCode": "0"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to <u>Status or Error Code</u> for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to <u>Status or Error Code</u> for details. Each description can contain up to 256 characters.
data	Opt.	Object	Area information. See details in <u>RegionInfo</u> .

Response Example

```
{  
    "code": "0",  
    "msg": "Success",  
    "data": {  
        "list": [  
            {  
                "indexCode": "1",  
                "parentIndexCode": "-1",  
                "siteIndexCode": "0",  
                "name": "10.18.65.114"  
            },  
            {  
                "indexCode": "28",  
                "parentIndexCode": "-1",  
                "siteIndexCode": "0",  
                "name": "10.18.65.98"  
            },  
            {  
                "indexCode": "29",  
                "parentIndexCode": "-1",  
                "siteIndexCode": "0",  
                "name": "10.41.7.131"  
            }  
        ]  
    }  
}
```

Remarks

The returned areas do not contain any child area, and both the cascading and non-cascading areas will be returned.

POST /artemis/api/resource/v1/region/indexCode/regionInfo

Get the area information by area ID.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/region/indexCode/regionInfo](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/region/indexCode/regionInfo)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
regionIndexCode	Req.	String	Body	Area ID, which consists of up to 64 characters.
siteIndexCode	Opt.	String	Body	Site ID, which consists of up to 64 characters. By default, it is the current site.

Request Example

```
{
  "regionIndexCode": "28",
  "siteIndexCode": "0"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Area information. See details in RegionInfo .

Response Example

```
{
  "code": "0",
```

```

"msg": "Success",
"data": {
    "indexCode": "28",
    "parentIndexCode": "-1",
    "siteIndexCode": "0",
    "name": "10.18.65.98"
}
}

```

POST /artemis/api/resource/v1/regions

Get information list of all areas, and all information is returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/regions](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/regions)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
siteIndexCode	Opt.	String	Body	Site ID, which consists of up to 64 characters. By default, it is the current site.

Request Example

```

{
    "pageNo": 1,
    "pageSize": 2,
    "siteIndexCode": "0"
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Area information list.
list[0]	Opt.	Object	Information of an area in the list. See details in RegionInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 40,
    "pageNo": 1,
    "pageSize": 2,
    "list": [
      {
        "indexCode": "1",
        "parentIndexCode": "-1",
        "siteIndexCode": "0",
        "name": "10.18.65.114"
      },
      {
        "indexCode": "28",
        "parentIndexCode": "-1",
        "siteIndexCode": "0",
        "name": "10.18.65.98"
      }
    ]
  }
}
```

```

        }
    ]
}
}
```

POST /artemis/api/resource/v1/regions/regionIndexCode/cameras

Get the camera list of a specified area by area ID, and the information is returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/regions/regionIndexCode/cameras](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/regions/regionIndexCode/cameras)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
regionIndexCode	Req.	String	Body	Area ID, which consists of up to 64 characters.
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
siteIndexCode	Opt.	String	Body	Site ID, which consists of up to 64 characters. By default, it is the current site.
deviceType	Opt.	String	Body	Device type (mobileDevice, encodeDevice (default), acsDevice), which consists of up to 128 characters. Use comma to separate multiple items.
bRecordSetting	Opt.	Number	Body	Whether to get the recording settings: 0-no, 1-yes (by default). When there is a large

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				number of cameras, getting the record settings will slow down the API performance.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 2,
  "regionIndexCode": "1",
  "siteIndexCode": "0",
  "deviceType": "encodeDevice",
  "bRecordSetting": 1
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Returned status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	PageInfo	Response data details.

PageInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.

Parameter	Req. or Opt.	Data Type	Description
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	CameraInfo[]	Information of a camera in the list. See details in <u>CameraInfo</u> .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 1,
    "pageNo": 1,
    "pageSize": 2,
    "list": [
      {
        "cameraIndexCode": "1",
        "cameraName": "Simulator Channel",
        "capabilitySet": "ptz,event_veh",
        "encodeDevIndexCode": "1",
        "recordType": "0",
        "recordLocation": "1",
        "regionIndexCode": "1",
        "siteIndexCode": "0",
        "status": 2,
        "isSupportWakeUp": 0,
        "wakeUpStatus": 0
      }
    ]
  }
}
```

Remarks

The returned cameras do not contain child cameras.

5.3.3 Camera Information

POST /artemis/api/resource/v1/regions/regionIndexCode/cameras

Get the camera list of a specified area by area ID, and the information is returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/regions/regionIndexCode/cameras](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/regions/regionIndexCode/cameras)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
regionIndexCode	Req.	String	Body	Area ID, which consists of up to 64 characters.
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
siteIndexCode	Opt.	String	Body	Site ID, which consists of up to 64 characters. By default, it is the current site.
deviceType	Opt.	String	Body	Device type (mobileDevice, encodeDevice (default), acsDevice), which consists of up to 128 characters. Use comma to separate multiple items.
bRecordSetting	Opt.	Number	Body	Whether to get the recording settings: 0-no, 1-yes (by default). When there is a large number of cameras, getting the record settings will slow down the API performance.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 2,
  "regionIndexCode": "1",
  "siteIndexCode": "0",
  "deviceType": "encodeDevice",
```

```

    "bRecordSetting": 1
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Returned status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	PageInfo	Response data details.

PageInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	CameraInfo[]	Information of a camera in the list. See details in CameraInfo .

Response Example

```

{
    "code": "0",
    "msg": "Success",
    "data": {
        "total": 1,
        "pageNo": 1,
        "pageSize": 2,
        "list": [
            {
                "cameraIndexCode": "1",
                "cameraName": "Simulator Channel",
                "capabilitySet": "ptz,event_veh",
                "encodeDevIndexCode": "1",
                "isPrimary": true
            }
        ]
    }
}

```

```
        "recordType": "0",
        "recordLocation": "1",
        "regionIndexCode": "1",
        "siteIndexCode": "0",
        "status": 2,
        "isSupportWakeUp": 0,
        "wakeUpStatus": 0
    }
]
}
}
```

Remarks

The returned cameras do not contain child cameras.

POST /artemis/api/resource/v1/cameras/indexCode

Get the information of a specified camera by camera ID.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/cameras/indexCode](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/cameras/indexCode)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
cameraIndexCode	Req.	String	Body	Camera ID, which consists of up to 64 characters.

Request Example

```
{
    "cameraIndexCode": "1213"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details. See details in CameraInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "cameraIndexCode": "1213",
    "cameraName": "Simulator Channel",
    "capabilitySet": "ptz",
    "devResourceType": "encodeDevice",
    "DevIndexCode": "5",
    "recordType": "0",
    "recordLocation": "1",
    "regionIndexCode": "95",
    "siteIndexCode": "0",
    "status": 2,
    "isSupportWakeUp": 0,
    "wakeUpStatus": 0
  }
}
```

POST /artemis/api/resource/v1/cameras

Get the information list of all cameras, and all information is returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/cameras](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/cameras)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
siteIndexCode	Opt.	String	Body	Site ID, which consists of up to 64 characters. By default, it is the current site.
deviceType	Opt.	String	Body	Device type (mobileDevice, encodeDevice (default), acsDevice), which consists of up to 128 characters. Use comma to separate multiple items.
bRecordSetting	Opt.	Number	Body	Whether to get the recording settings: 0-no, 1-yes (by default). When there is a large number of cameras, getting the record settings will slow down the API performance.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 2,
  "siteIndexCode": "0",
  "deviceType": "encodeDevice",
  "bRecordSetting": 1
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details. See details in CameraInfo .

PageInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	CameraInfo[]	Information of a camera in the list. See details in CameraInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 51,
    "pageNo": 1,
    "pageSize": 2,
    "list": [
      {
        "cameraIndexCode": "1213",
        "cameraName": "Simulator Channel",
        "capabilitySet": "ptz",
        "encodeDevIndexCode": "85",
        "recordType": "0",
        "recordLocation": "1",
        "regionIndexCode": "95",
        "status": "Normal"
      }
    ]
  }
}
```

```

        "siteIndexCode": "0",
        "status": 2,
        "isSupportWakeUp": 0,
        "wakeUpStatus": 0
    },
    {
        "cameraIndexCode": "1212",
        "cameraName": "Simulator Channel",
        "capabilitySet": "ptz",
        "encodeDevIndexCode": "85",
        "recordType": "0",
        "recordLocation": "1",
        "regionIndexCode": "95",
        "siteIndexCode": "0",
        "status": 2,
        "isSupportWakeUp": 0,
        "wakeUpStatus": 0
    }
]
}
}

```

POST /artemis/api/resource/v1/camera/advance/cameraList

Set search conditions (e.g., camera name, encoding device ID, and area ID) to search the specified cameras, and fuzzy search is supported; if the search condition is not configured, the information of all cameras will be returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/camera/advance/cameraList](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/camera/advance/cameraList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
cameraName	Opt.	String	Body	Camera name, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
deviceType	Opt.	String	Body	Device type (mobileDevice, encodeDevice (default), acsDevice), which consists of up to 128 characters. Use comma to separate multiple items.
devIndexCode		String	Body	On-board device ID. It is valid when encodeDevIndexCode is empty.
encodeDevIndexCode	Opt.	String	Body	Encoding device ID, which consists of up to 64 characters. If the ID is specified, only the cameras of the current level will be searched.
regionIndexCode	Opt.	String	Body	Area ID, which consists of up to 64 characters.
siteIndexCode	Opt.	String	Body	Site ID, which consists of up to 64 characters. By default, it is the current site.
bRecordSetting	Opt.	Number	Body	Whether to get the recording settings: 0-no, 1-yes (by default). When there is a large number of cameras, getting the record settings will slow down the API performance.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 100,
  "cameraName": "Simulator Channel",
  "deviceType": "encodeDevice"
  "encodeDevIndexCode": "85",
  "devIndexCode": "15",
```

```

"regionIndexCode": "95",
"siteIndexCode": "0",
"bRecordSetting": 1
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	PageInfo	Response data details.

PageInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	CameraInfo[]	Information of a camera in the list. See details in CameraInfo .

Response Example

```

{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 2,
    "pageNo": 1,
    "pageSize": 100,
    "list": [
      {
        "cameraIndexCode": "1213",
        "cameraName": "Simulator Channel",
        ...
      }
    ]
  }
}

```

```

    "capabilitySet": "ptz",
    "encodeDevIndexCode": "85",
    "recordType": "0",
    "recordLocation": "1",
    "regionIndexCode": "95",
    "siteIndexCode": "0",
    "status": 2,
    "isSupportWakeUp": 0,
    "wakeUpStatus": 0
  },
  {
    "cameraIndexCode": "1212",
    "cameraName": "Simulator Channel",
    "capabilitySet": "ptz",
    "encodeDevIndexCode": "85",
    "recordType": "0",
    "recordLocation": "1",
    "regionIndexCode": "95",
    "siteIndexCode": "0",
    "status": 2,
    "isSupportWakeUp": 0,
    "wakeUpStatus": 0
  }
]
}
}

```

Remarks

If there are multiple search conditions, they will be combined for search.

POST /artemis/api/dataStatics/v1/cameras/mobileDataTraffic

Get the mobile data statistics of solar camera.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/dataStatics/v1/cameras/mobileDataTraffic](https://[serverAddress]:[serverPort]/arTEMIS/api/dataStatics/v1/cameras/mobileDataTraffic)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
statisticsType	Req.	Number	Body	Statistics cycle, 0-hour, 1-day.
startTime	Req.	String	Body	Start time in ISO 8601 format, which is represented by "yyyy-MM-ddTHH:mm:ss +current

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				time zone", e.g., "2018-07-26T15:00:00+08:00".
endTime	Req.	String	Body	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".
cameraIndexCodes	Req.	String	Body	Camera ID(s). Multiple items are separated by comma.

Request Example

```
{
  "statisticsType": 0,
  "startTime": "2019-05-17T00:00:00+08:00",
  "endTime": "2019-05-17T23:59:59+08:00",
  "cameraIndexCodes": "1"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Opt.	Number	Returned status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Opt.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Page information.
list	Opt.	Array	See details in CameraMobileDataTraffic .

Response Example

```
{
  "code": 0,
  "msg": "ok",
  "data": {
    "total": 0,
    "list": [
      {
        "cameraIndexCode": "100",
        "cameraName": "name",
        "mobileDataTrafficCameraSum": "1",
        "mobileDataTrafficList": [
          {
            "startTime": "2023-12-25 00:00:00",
            "endTime": "2023-12-31 23:59:59",
            "signalStrength": 1,
            "mobileDataTrafficSum": "1",
            "statisticStatus": 0
          }
        ]
      }
    ]
  }
}
```

POST /artemis/api/dataStatics/v1/cameras/batteryCapacity

Get battery statistics of solar camera.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/dataStatics/v1/cameras/batteryCapacity](https://[serverAddress]:[serverPort]/arTEMIS/api/dataStatics/v1/cameras/batteryCapacity)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
statisticsType	Req.	Number	Body	Statistics cycle, 0-hour, 1-day.
startTime	Req.	String	Body	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".

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
endTime	Req.	String	Body	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".
cameraIndexCodes	Req.	String	Body	Camera ID(s). Multiple items are separated by comma.

Request Example

```
{
  "statisticsType": 0,
  "startTime": "2019-05-17T00:00:00+08:00",
  "endTime": "2019-05-17T23:59:59+08:00",
  "cameraIndexCodes": "1"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Opt.	Number	Returned status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Opt.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Page information.
list	Opt.	Array	Object list. See details in CameraBatteryCapacity .

Response Example

```
{
  "code": 0,
  "msg": "ok",
```

```

"data": {
    "total": 0,
    "list": [
        {
            "cameraIndexCode": "100",
            "cameraName": "name",
            "mobileDataTrafficCameraSum": "1",
            "mobileDataTrafficList": [
                {
                    "startTime": "2023-12-25 00:00:00",
                    "endTime": "2023-12-31 23:59:59",
                    "signalStrength": 1,
                    "mobileDataTrafficSum": "1",
                    "statisticStatus": 0
                }
            ]
        }
    ]
}

```

5.3.4 Organization Information

POST /artemis/api/resource/v1/org/advance/orgList

Set search conditions (e.g., organization ID, organization name, and organization status) to search for specified organization information and fuzzy search is supported; if the search condition is not configured, the information of all organizations will be returned by page. It is a traversing search method and the parent node will always be included in the returned result.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/org/advance/orgList](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/org/advance/orgList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
orgName	Opt.	String	Body	Organization name, which consists of up to 64 characters.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
orgIndexCode	Req.	String	Body	Organization No., which consists of up to 64 characters.
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.

Request Example

```
{
  "orgName": "test",
  "pageNo": 1,
  "pageSize": 10
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.

Parameter	Req. or Opt.	Data Type	Description
list	Opt.	Array	Organization information list.
list[0]	Opt.	Object	Information of an organization in the list. See details in OrgInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 2,
    "pageNo": 1,
    "pageSize": 10,
    "list": [
      {
        "orgIndexCode": "1",
        "orgName": "root",
        "parentOrgIndexCode": "0"
      },
      {
        "orgIndexCode": "2",
        "orgName": "test",
        "parentOrgIndexCode": "1"
      }
    ]
  }
}
```

POST /artemis/api/resource/v1/org/orgIndexCode/orgInfo

Get organization information by organization ID.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/org/orgIndexCode/orgInfo](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/org/orgIndexCode/orgInfo)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	which consists of up to 32 characters, but cannot contain

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				special characters like ' / \ : * ? " < >
orgIndexCode	Req.	String	Body	Organization ID, which consists of up to 64 characters.

Request Example

```
{
  "orgIndexCode": "3"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details); it consists of up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. It consists of up to 256 characters.
data	Opt.	Object	Organization information. See details in OrgInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "orgIndexCode": "3",
    "orgName": "name_test",
    "parentOrgIndexCode": "1"
  }
}
```

POST /artemis/api/resource/v1/org/orgList

Get the information list of all organizations, and all information is returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/org/orgList](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/org/orgList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 100
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for

Parameter	Req. or Opt.	Data Type	Description
			details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Organization information list.
list[0]	Opt.	Object	Information of an organization in the list. See details in OrgInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 3,
    "pageNo": 1,
    "pageSize": 100,
    "list": [
      {
        "orgIndexCode": "1",
        "orgName": "root",
        "parentOrgIndexCode": "0"
      },
      {
        "orgIndexCode": "2",
        "orgName": "test",
        "parentOrgIndexCode": "1"
      },
      {
        "orgIndexCode": "3",
        "orgName": " name_test ",
        "parentOrgIndexCode": "1"
      }
    ]
  }
}
```

POST /artemis/api/resource/v1/org/parentOrgIndexCode/subOrgList

Get information list of lower-level organizations by parent organization, and all information is returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/org/parentOrgIndexCode/subOrgList](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/org/parentOrgIndexCode/subOrgList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	which consists of up to 32 characters, but cannot contain special characters like ' / \ : * ? " < >
parentOrgIndexCode	Req.	String	Body	Parent organization No., which consists of up to 64 characters.
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.

Request Example

```
{
  "parentOrgIndexCode": "1",
  "pageNo": 1,
  "pageSize": 10
}
```

Response Parameters

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

Parameter	Req. or Opt.	Data Type	Description
			to Status or Error Code for details); it consists of up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. It consists of up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Organization information list.
list[0]	Opt.	Object	Information of an organization in the list. See details in OrgInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 2,
    "pageNo": 1,
    "pageSize": 10,
    "list": [
      {
        "orgIndexCode": "2",
        "orgName": "test",
        "parentOrgIndexCode": "1"
      },
      {
        "orgIndexCode": "3",
        "orgName": "name_test",
        "parentOrgIndexCode": "1"
      }
    ]
  }
}
```

POST /artemis/api/resource/v1/org/rootOrg

Get the root organization information.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/org/rootOrg](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/org/rootOrg)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Root organization information. See details in OrgInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "orgIndexCode": "1",
    "orgName": "root",
    "parentOrgIndexCode": "0"
}
```

```

}
}
```

POST /artemis/api/resource/v1/org/single/add

Add an organization.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/org/single/add](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/org/single/add)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	which consists of up to 32 characters, but cannot contain special characters like ' / \ : * ? " < >
parentIndexCode	Req.	String	Body	Parent organization ID, which consists of up to 64 characters.
orgName	Req.	String	Body	Organization name, which consists of up to 64 characters.

Request Example

```
{
  "orgName": "name",
  "parentIndexCode": "1"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details); it consists of up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for

Parameter	Req. or Opt.	Data Type	Description
			details. It consists of up to 256 characters.
data	Opt.	Object	Organization information. See details in <u>OrgInfo</u> .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "orgIndexCode": "4",
    "orgName": "name",
    "parentOrgIndexCode": "1"
  }
}
```

POST /artemis/api/resource/v1/org/single/delete

Delete an organization.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/org/single/delete](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/org/single/delete)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
orgIndexCode	Req.	String	Body	Organization ID, which consists of up to 64 characters.
adminPassword	Opt.	String	Body	The admin password, which consists of up to 64 characters, but cannot contain special characters like '/ \ : * ? " < >

Request Example

```
{
  "orgIndexCode": "4",
  "adminPassword": "12345"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details); it consists of up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. It consists of up to 256 characters.
data	Opt.	Info	Response data. If succeeded, this field is null. If the admin password is incorrect, the number of remaining attempts will be returned.

Table 5-1 Info Object Description

Parameter	Req. or Opt.	Data Type	Description
remainLockNumber	Opt.	Number	Number of remaining attempts. This field will be returned when the admin password is incorrect. The IP will be locked when the maximum attempts reached.

Response Example

```
{
  "code": "2",
  "msg": "Incorrect request parameter",
  "data":{
    "remainLockNumber": 4
  }
}
```

POST /artemis/api/resource/v1/org/single/update

Edit the information of an organization.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/org/single/update](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/org/single/update)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
parentIndexCode	Req.	String	Body	Parent organization ID, which consists of up to 64 characters.
orgIndexCode	Req.	String	Body	Organization ID, which consists of up to 64 characters.
orgName	Req.	String	Body	Organization name, which consists of up to 64 characters.

Request Example

```
{
  "orgName": "name_test",
  "orgIndexCode": "4",
  "parentIndexCode": "1"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Returned status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code consists of up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the

Parameter	Req. or Opt.	Data Type	Description
			code, refer to Status or Error Code for details. Each description consists of up to 256 characters.
data	Opt.	String	Returned result, if succeeded, this field is null.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

5.3.5 Access Point Information

POST /artemis/api/resource/v1/acsDoor/region/acsDoorList

Get the information list of access points in a specified area by area ID, and the information is returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/acsDoor/region/acsDoorList](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/acsDoor/region/acsDoorList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
regionIndexCode	Req.	String	Body	Area ID, which consists of up to 64 characters.

Request Example

```
{
  "regionIndexCode": "f182356d-8647-4fd8-96d0-cf635e9293cd",
  "pageNo": 1,
  "pageSize": 2
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Access point information list.
list[0]	Opt.	Object	Information of an access point in the list. See details in DoorInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 1,
    "pageNo": 1,
    "pageSize": 2,
    "list": [
      {
        "doorIndexCode": "938",
        "acsDevIndexCode": "46",
        "regionIndexCode": "77",
        "doorNo": "6",
        "doorName": "Door 01",
        "doorState": 4,
        "doorOutState": 4
      }
    ]
  }
}
```

POST /artemis/api/resource/v1/acsDoor/indexCode/acsDoorInfo

Get the information of a specified access point by access point ID.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/acsDoor/indexCode/acsDoorInfo](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/acsDoor/indexCode/acsDoorInfo)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
doorIndexCode	Req.	String	Body	Access point ID, which consists of up to 64 characters.

Request Example

```
{
  "doorIndexCode": "938"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Access point information. See details in DoorInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "doorIndexCode": "938",
    "acsDevIndexCode": "46",
    "regionIndexCode": "77",
    "doorNo": "6",
    "doorName": "Door 01",
    "doorState": 4,
    "doorOutState": 4
  }
}
```

POST /artemis/api/resource/v1/acsDoor/acsDoorList

Get the information list of all access points, and all information is returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/acsDoor/acsDoorList](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/acsDoor/acsDoorList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 2
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.

Parameter	Req. or Opt.	Data Type	Description
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Access point information list.
list[0]	Opt.	Object	Information of an access point in the list. See details in DoorInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 6,
    "pageNo": 1,
    "pageSize": 2,
    "list": [
      {
        "doorIndexCode": "938",
        "acsDevIndexCode": "46",
        "regionIndexCode": "77",
        "doorNo": "6",
        "doorName": "Door 01",
        "doorState": 4
      },
      {
        "doorIndexCode": "920",
        "acsDevIndexCode": "37",
        "regionIndexCode": "75",
        "doorNo": "5",
        "doorName": "Door1",
        "doorState": 0,
        "doorOutState": 0
      }
    ]
  }
}
```

POST /artemis/api/resource/v1/acsDoor/advance/acsDoorList

Set search condition (i.e., access point name, access control device ID, and area ID) to search the specified access point, and fuzzy search is supported; if the search condition is not configured, the information of all access points will be returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/acsDoor/advance/acsDoorList](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/acsDoor/advance/acsDoorList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
doorName	Opt.	String	Body	Access point name, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
acsDevIndexCode	Opt.	String	Body	Access control device ID, which consists of up to 64 characters.
regionIndexCode	Req.	String	Body	Area ID, which consists of up to 64 characters.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 2,
  "doorName": "Door 01",
  "acsDevIndexCode": "46",
  "regionIndexCode": "77"
}
```

Response Parameters

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

Parameter	Req. or Opt.	Data Type	Description
			to <i>Status or Error Code</i> for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to <i>Status or Error Code</i> for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Access point information list.
list[0]	Opt.	Object	Information of an access point in the list. See details in <i>DoorInfo</i> .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 1,
    "pageNo": 1,
    "pageSize": 2,
    "list": [
      {
        "doorIndexCode": "938",
        "acsDevIndexCode": "46",
        "regionIndexCode": "77",
        "doorNo": "6",
        "doorName": "Door 01",
        "doorState": 4,
        "doorOutState": 4
      }
    ]
  }
}
```

POST /artemis/api/resource/v1/reader/search

Get card reader information.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/reader/search](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/reader/search)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
doorIndexCode	Req.	String	Body	Access point ID, which consists of up to 64 characters.
readerIndexCode	Opt.	String	Body	Card reader ID, which consists of up to 64 characters.

Request Example

```
{
  "doorIndexCode": "938"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.

Parameter	Req. or Opt.	Data Type	Description
total	Opt.	Number	Total number of search results.
list	Opt.	Array	List of card reader information.
list[0]	Opt.	Object	Information of a card reader. See details in ReaderInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 2,
    "list": [
      {
        "indexCode": "5",
        "name": "Cardreader 01",
        "enable": 0
      },
      {
        "indexCode": "6",
        "name": "Cardreader 02",
        "enable": 0
      }
    ]
  }
}
```

5.3.6 Vehicle Information

POST /artemis/api/resource/v1/vehicleGroup/vehicleGroupList

Get the information list of all vehicle groups, and all information is returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/vehicleGroup/vehicleGroupList](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/vehicleGroup/vehicleGroupList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.

Request Example

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

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.

Parameter	Req. or Opt.	Data Type	Description
list	Opt.	Array	Vehicle group information list.
list[0]	Opt.	Object	Information of a vehicle group in the list. See details in <u>VehicleGroupInfo</u> .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 2,
    "pageNo": 1,
    "pageSize": 10,
    "list": [
      {
        "vehicleGroupIndexCode": "3",
        "vehicleGroupName": "group_one",
        "description": ""
      },
      {
        "vehicleGroupIndexCode": "2",
        "vehicleGroupName": "1",
        "description": ""
      }
    ]
  }
}
```

POST /artemis/api/resource/v1/vehicleGroup/single/add

Add a vehicle group.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/vehicleGroup/single/add](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/vehicleGroup/single/add)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
vehicleGroupName	Req.	String	Body	Vehicle group name, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
description	Opt.	String	Body	Description, which consists of 1 to 128 characters, but cannot contain special characters like '/ \ : * ? " < >

Request Example

```
{
  "vehicleGroupName": "test",
  "description": "test"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Returned status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Vehicle group information, refer to VehicleGroupInfo for details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
```

```

"data": {
    "vehicleGroupIndexCode": "4",
    "vehicleGroupName": "test",
    "description": "test"
}
}

```

POST /artemis/api/resource/v1/vehicleGroup/single/update

Edit the information of a vehicle group.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/vehicleGroup/single/update](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/vehicleGroup/single/update)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
vehicleGroupIndexCode	Req.	String	Body	Vehicle group ID, which consists of 1 to 64 characters.
vehicleGroupName	Req.	String	Body	Vehicle group name, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
description	Opt.	String	Body	Description, which consists of 1 to 128 characters, but cannot contain special characters like '/ \ : * ? " < >

Request Example

```

{
    "vehicleGroupIndexCode": "4",
    "vehicleGroupName": "test_mod",
    "description": "test_mod"
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Returned status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	/	/

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

POST /artemis/api/resource/v1/vehicleGroup/single/delete

Delete a vehicle group.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/vehicleGroup/single/delete](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/vehicleGroup/single/delete)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
vehicleGroupIndexCode	Req.	String	Body	Vehicle group ID, which consists of 1 to 64 characters.

Request Example

```
{
  "vehicleGroupIndexCode": "4"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Returned status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	/	/

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

POST /artemis/api/resource/v1/vehicle/vehicleList

Get the information list of all vehicles, and all information is returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/vehicle/vehicleList](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/vehicle/vehicleList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
vehicleGroupIndexCode	Req.	String	Body	Vehicle group ID, which consists of up to 32 characters.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 10
  "vehicleGroupIndexCode": "1"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.

Parameter	Req. or Opt.	Data Type	Description
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Vehicle information list.
list[0]	Opt.	Object	Information of a vehicle in the list. See details in <u>VehicleInfo</u> .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 1,
    "pageNo": 1,
    "pageSize": 10,
    "list": [
      {
        "vehicleId": "7",
        "plateNo": "888",
        "plateCategory": "123",
        "plateArea": 258,
        "plateAreaName": "DXB",
        "personName": "1 2",
        "personFamilyName": "2",
        "personGivenName": "1",
        "phoneNo": "",
        "vehicleColor": 0,
        "vehicleGroupIndexCode": "1",
        "effectiveDate": "2022-03-21T00:00:00+08:00",
        "expiredDate": "2023-03-25T23:59:59+08:00"
      }
    ]
  }
}
```

POST /artemis/api/resource/v1/vehicle/indexCode/vehicleInfo

Get the information of a specified vehicle by vehicle ID.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/vehicle/indexCode/vehicleInfo](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/vehicle/indexCode/vehicleInfo)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
vehicleIndexCode	Req.	String	Body	Vehicle ID, which consists of up to 32 characters.

Request Example

```
{
  "vehicleIndexCode": "7"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Vehicle information. See details in VehicleInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "vehicleId": "7",
    "plateNo": "AB5555",
    "plateCategory": "123",
    "plateArea": 258,
    "plateAreaName": "DXB",
    "personName": "1 2",
    "phoneNo": "",
    "vehicleColor": 0,
```

```

"vehicleGroupIndexCode": "1"
"effectiveDate": "2022-03-21T00:00:00+08:00",
"expiredDate": "2023-03-25T23:59:59+08:00"
}

```

POST /artemis/api/resource/v1/vehicle/advance/vehicleList

Set search condition (i.e., license plate number, vehicle owner name, and owner contact number) to search the specified vehicles, and fuzzy search is supported; if the search condition is not configured, the information of all vehicles will be returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/vehicle/advance/vehicleList](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/vehicle/advance/vehicleList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
plateNo	Opt.	String	Body	License plate number, which consists of up to 64 characters.
personName	Opt.	String	Body	Vehicle owner name, which consists of up to 64 characters.
phoneNo	Opt.	String	Body	Contact number of vehicle owner, which consists of up to 64 characters.
vehicleGroupIndexCode	Req.	String	Body	Vehicle group ID, which consists of up to 64 characters.
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 10,
  "personName": "",
  "plateNo": "N746",
  "phoneNo": "",
  "vehicleGroupIndexCode": "1"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Vehicle information list.
list[0]	Opt.	Object	Information of a vehicle in the list. See details in VehicleInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 1,
    "pageNo": 1,
    "pageSize": 10,
    "list": [
      {
        "id": "12345678901234567890123456789012",
        "plateNo": "N746",
        "personName": "John Doe",
        "vehicleGroupIndexCode": "1"
      }
    ]
  }
}
```

```
{
    "vehicleId": "20",
    "plateNo": "NN7464",
    "plateCategory": "123",
    "plateArea": 258,
    "plateAreaName": "DXB",
    "personName": "test test",
    "personFamilyName": "test",
    "personGivenName": "test",
    "phoneNo": "",
    "vehicleColor": 3,
    "vehicleGroupIndexCode": "1",
    "effectiveDate": "2022-03-21T00:00:00+08:00",
    "expiredDate": "2023-03-25T23:59:59+08:00"
}
]
```

Remarks

The search conditions, i.e., license plate number, vehicle owner name, and owner contact number, are mutually exclusive. That is, they cannot be configured for search at same time.

POST /artemis/api/resource/v1/vehicle/single/add

Add a vehicle.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/vehicle/single/add](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/vehicle/single/add)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
plateNo	Req.	String	Body	License plate number, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
personId	Opt.	String	Body	Person ID, which consists of up to 128 characters.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
personGivenName	Opt.	String	Body	Person's given name, which consists of 1 to 256 characters, but cannot contain special characters like '/ \ : * ? < >
personFamily Name	Opt.	String	Body	Person's family name, which consists of 1 to 256 characters, but cannot contain special characters like '/ \ : * ? < >
phoneNo	Opt.	String	Body	Person's contact number, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? < >
plateCategory	Opt.	String	Body	License plate type, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? < >
plateArea	Opt.	Number	Body	Area of the license plate: 0-not supported, 60-BHR, 62-LEB, 66-UAE, 68-OMN, 72-QAT, 77-KSA, 84-KUW, 85-SYR, 90-IRQ, 93-YMN, 94-JOR, 104-EGY, 256-AUH, 257-FUJ, 258-DXB, 259-RAK, 260-AJM, 261-SHJ, 262-UAQ, 263-FED.
vehicleColor	Opt.	Number	Body	Vehicle color code: 0-other color, 1-white, 2-sliver, 3-grey, 4-black, 5-red, 6-dark blue, 7-blue, 8-yellow, 9-green, 10-brown, 11-pink, 12-purple, 13-dark blue, 14-cyan.
vehicleGroupIndexcode	Req.	String	Body	Vehicle group ID, which consists of up to 64 characters.
effectiveDate	Req.	String	Body	Start time of vehicle validity, in ISO 8601 format, which is represented by "yyyy- MM-

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				ddTHH:mm:ss+current time zone", e.g., "2018-07-26T15:00:00 + 08:00".
expiredDate	Req.	String	Body	Vehicle expiry date, 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".

Request Example

```
{
  "plateNo": "NN7464",
  "plateCategory": "123",
  "plateArea": 258,
  "personId": "1149",
  "phoneNo": "111111",
  "vehicleColor": 3,
  "vehicleGroupIndexCode": "1",
  "personGivenName": "ma",
  "personFamilyName": "jack",
  "effectiveDate": "2022-03-21T00:00:00+08:00",
  "expiredDate": "2023-03-25T23:59:59+08:00"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Returned status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for

Parameter	Req. or Opt.	Data Type	Description
			details. Each description can contain up to 256 characters.
data	Opt.	Object	Vehicle information, refer to VehicleInfo for details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "vehicleId": "20",
    "plateNo": "NN7464",
    "plateCategory": "123",
    "plateArea": 258,
    "plateAreaName": "DXB",
    "personName": "test test",
    "phoneNo": "",
    "vehicleColor": 3,
    "vehicleGroupIndexCode": "1",
    "effectiveDate": "2022-03-21T00:00:00+08:00",
    "expiredDate": "2023-03-25T23:59:59+08:00"
  }
}
```

POST /artemis/api/resource/v1/vehicle/single/update

Edit information of a vehicle.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/vehicle/single/update](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/vehicle/single/update)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
vehicleId	Req.	String	Body	Vehicle ID, which consists of up to 65 characters.
vehicleGroupIndexcode	Req.	String	Body	Vehicle group ID, which consists of up to 64 characters.
plateNo	Req.	String	Body	License plate number, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
plateCategory	Opt.	String	Body	License plate type, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
plateArea	Opt.	Number	Body	Area of the license plate: 0-not supported, 60-BHR, 62-LEB, 66-UAE, 68-OMN, 72-QAT, 77-KSA, 84-KUW, 85-SYR, 90-IRQ, 93-YMN, 94-JOR, 104-EGY, 256-AUH, 257-FUJ, 258-DXB, 259-RAK, 260-AJM, 261-SHJ, 262-UAQ, 263-FED.
personId	Opt.	String	Body	Person ID, which consists of up to 128 characters.
personGivenName	Opt.	String	Body	Person's given name, which consists of 1 to 256 characters, but cannot contain special characters like '/ \ : * ? " < >
personFamilyName	Opt.	String	Body	Person's family name, which consists of 1 to 256 characters, but cannot contain special characters like '/ \ : * ? " < >
phoneNo	Opt.	String	Body	Person's contact number, which consists of 1 to 32 characters, but cannot contain

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				special characters like ' / \ : * ? " < >
vehicleColor	Opt.	Number	Body	Vehicle color code: 0-other color, 1-white, 2-sliver, 3-grey, 4-black, 5-red, 6-dark blue, 7-blue, 8-yellow, 9-green, 10-brown, 11-pink, 12-purple, 13-dark blue, 14-cyan.
effectiveDate	Req.	String	Body	Start time of vehicle validity, 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".
expiredDate	Req.	String	Body	Vehicle expiry date, 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".

Request Example

```
{
  "vehicleId": "21",
  "plateNo": "74651544B",
  "plateCategory": "123",
  "plateArea": 258,
  "plateAreaName": "DXB",
  "personId": "1149",
  "phoneNo": "111111111111",
  "vehicleColor": 3,
  "vehicleGroupIndexCode": "1",
  "personFamilyName": "dong",
  "personGivenName": "zhaod",
  "effectiveDate": "2022-03-21T00:00:00+08:00",
  "expiredDate": "2023-03-25T23:59:59+08:00"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Returned status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	/	/

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

POST /artemis/api/resource/v1/vehicle/single/delete

Delete a vehicle

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/vehicle/single/delete](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/vehicle/single/delete)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
vehicleId	Req.	String	Body	Vehicle ID, which consists of up to 65 characters.

Request Example

```
{
  "vehicleId": "12"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Returned status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	/	/

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

5.3.7 Vehicle Linked to On-Board Device

POST /artemis/api/resource/v1/mobilevehicle/mobilevehicleList

Get the list of vehicles linked to on-board devices. The returned results will be displayed in page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/mobilevehicle/mobilevehicleList](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/mobilevehicle/mobilevehicleList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.

Request Example

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

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	PageInfo	Vehicle information structure.

PageInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	<u>MobilevehicleInfo</u>	List of vehicles linked to on-board devices.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 2,
    "pageNo": 1,
    "pageSize": 10,
    "list": [
      {
        "mobilevehicleIndexCode": "3",
        "mobilevehicleName": "zhe123",
        "DevIndexCode": "28",
        "regionIndexCode": "1",
        "status": "1",
        "plateNo": "zhe123",
        "personName": "ljf",
        "personFamilyName": "l",
        "personGivenName": "jf",
        "phoneNo": "2345346",
        "vehicleColor": "1",
        "vehicleType": "1",
        "vehicleBrand": "1"
      }
    ]
  }
}
```

POST /artemis/api/resource/v1/mobileVehicle/indexCode/mobileVehicleInfo

Get the information of a vehicle linked to the on-board device according to the vehicle ID.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/mobileVehicle/indexCode/mobileVehicleInfo](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/mobileVehicle/indexCode/mobileVehicleInfo)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
mobilevehicleIndexCode	Req.	String	Body	ID of vehicle linked to the on-board device. The maximum length is 256 characters.

Request Example

```
{
  "mobilevehicleIndexCode": "1"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Req.	MobilevehivleInfo	Response data details.

Response Example

```
{
  "code": "0",
  "msg": "Success"
}
```

```

"msg": "Success",
"data": {
    "mobilevehicleIndexCode": "1",
    "mobilevehicleName": "zhe123",
    "regionIndexCode": "1",
    "status": 2,
    "DevIndexCode": "1",
    "plateNo": "zhe123",
    "personFamilyName": "",
    "personGivenName": "",
    "personName": "",
    "phoneNo": "",
    "vehicleType": -1,
    "vehicleBrand": -1,
    "vehicleColor": -1
}
}

```

POST /artemis/api/resource/v1/mobilevehicle/advanced/mobilevehicleList

Search the list of vehicles linked to on-board devices by condition. The returned results will be displayed in page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/mobilevehicle/advanced/mobilevehicleList](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/mobilevehicle/advanced/mobilevehicleList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
mobilevehicle Name	Opt.	String	Body	Name of vehicle linked to the on-board device. This field consists of up to 32 characters,

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				but cannot contain special characters like '/ \ : * ? " < >. Fuzzy search is supported.
devIndexCode	Opt.	String	Body	Device ID. When this field is set, results of vehicles which are linked to the specific on-board device will be returned. The maximum length is 64 characters.
regionIndexCode	Opt.	String	Body	Area ID, which consists of up to 64 characters.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 10,
  "mobilevehicleName":"10.18.68.12",
  "devIndexCode":"1"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	PageInfo	Vehicle information structure.

PageInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	MobilevehicleInfo	Response data details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 2,
    "pageNo": 1,
    "pageSize": 10,
    "list": [
      {
        "mobilevehicleIndexCode": "3",
        "mobilevehicleName": "zhe123",
        "DevIndexCode": "28",
        "regionIndexCode": "1",
        "status": "1",
        "plateNo": "zhe123",
        "personName": "ljf",
        "personFamilyName": "l",
        "personGivenName": "jf",
        "phoneNo": "2345346",
        "vehicleColor": "1",
        "vehicleType": "1",
        "vehicleBrand": "1"
      }
    ]
  }
}
```

5.3.8 Person Information

POST /artemis/api/resource/v1/person/personList

Get the information list of all persons, and all information is returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/person/personList](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/person/personList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
appendInfo	Opt.	appendInfo []	Body	Extra person information to be returned as needed. Currently supported values: 6-room No., 19-floor No. To get room No. and floor No. information, enter [6, 19] for this field.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 2,
  "appendInfo": [6, 19]
}
```

Response Parameters

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

Parameter	Req. or Opt.	Data Type	Description
			Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to <u>Status or Error Code</u> for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Person information list.
list[0]	Opt.	Object	Information of a person in the list. See details in <u>PersonInfo</u> .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 37,
    "pageNo": 1,
    "pageSize": 2,
    "list": [
      {
        "personId": "1149",
        "personCode": "3536895491",
        "orgIndexCode": "1",
        "personName": "test test",
        "personFamilyName": "test",
        "personGivenName": "test",
        "gender": 0,
        "phoneNo": "",
        "personPhoto": {
          "picUri": ""
        },
        "email": "",
        "remark": "",
        "beginTime": "2021-04-25T16:19:27+08:00",
        "endTime": "2031-04-25T16:19:27+08:00",
        "cards": [

```

```
{  
    "cardNo": "234324"  
}  
,  
"customFieldList": [  
    {  
        "id": "12",  
        "customFiledName": "Home Addrress",  
        "customFieldType": 0,  
        "customFieldValue": ""  
    },  
    {  
        "id": "13",  
        "customFiledName": "Salary",  
        "customFieldType": 0,  
        "customFieldValue": ""  
    },  
    {  
        "id": "14",  
        "customFiledName": "time",  
        "customFieldType": 2,  
        "customFieldValue": ""  
    }  
]  
,  
{  
    "personId": "1135",  
    "personCode": "2357358552",  
    "orgIndexCode": "1",  
    "personName": "John",  
    "personFamilyName": "",  
    "personGivenName": "John",  
    "gender": 0,  
    "phoneNo": "",  
    "personPhoto": {  
        "picUri": "0B4E92A30AF914C1285613A4FBD9F761F"  
    },  
    "email": "",  
    "remark": "",  
    "beginTime": "2021-04-15T17:07:41+08:00",  
    "endTime": "2031-04-15T17:07:41+08:00",  
    "customFieldList": [  
        {  
            "id": "12",  
            "customFiledName": "Home Addrress",  
            "customFieldType": 0,  
            "customFieldValue": ""  
        },  
        {  
            "id": "13",  
            "customFiledName": "Salary",  
            "customFieldType": 0,  
            "customFieldValue": ""  
        }  
    ]  
}
```

```

    "customFieldValue": """",
    },
    {
      "id": "14",
      "customFiledName": "time",
      "customFieldType": 2,
      "customFieldValue": """
    }
  ]
}
]
}
}
}

```

POST /artemis/api/resource/v1/person/personId/personInfo

Get the information of a specified person by person ID.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/person/personId/personInfo](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/person/personId/personInfo)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
personId	Req.	String	Body	Person ID, which consists of up to 64 characters.
appendInfo	Opt.	<u>appendInfo</u> []	Body	Extra person information to be returned as needed. Currently supported values: 6-room No., 19-floor No. To get room No. and floor No. information, enter [6, 19] for this field.

Request Example

```
{
  "personId": "1149",
  "appendInfo": [6, 19]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Person information. See details in PersonInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "personId": "1149",
    "personCode": "3536895491",
    "personName": "test test",
    "gender": 0,
    "orgIndexCode": "1",
    "personPhoto": {
      "picUri": ""
    },
    "phoneNo": "",
    "email": "",
    "remark": "",
    "beginTime": "2021-04-25T16:19:27+08:00",
    "endTime": "2031-04-25T16:19:27+08:00",
    "personFamilyName": "test",
    "personGivenName": "test",
    "cards": [
      {
        "cardNo": "234324"
      }
    ],
    "customFieldList": [
      {
        "id": "12",
        "customFiledName": "Home Address"
      }
    ]
  }
}
```

```

    "customFieldType": 0,
    "customFieldValue": ""
},
{
  "id": "13",
  "customFiledName": "Salary",
  "customFieldType": 0,
  "customFieldValue": ""
},
{
  "id": "14",
  "customFiledName": "time",
  "customFieldType": 2,
  "customFieldValue": ""
}
]
}
}

```

POST /artemis/api/resource/v1/person/personCode/personInfo

Get person information according to person code.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/person/personCode/personInfo](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/person/personCode/personInfo)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
personCode	Req.	string	Body	Person code, a customized employee ID when you add the person, which cannot be modified once set. The maximum length is 64.
appendInfo	Opt.	<u>appendInfo</u> []	Body	Extra person information to be returned as needed. Currently supported values: 6-room No., 19-floor No. To get room No.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				and floor No. information, enter [6, 19] for this field.

Request Example

```
{
  "personCode": "3536895491",
  "appendInfo": [6, 19]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Person information. See details in PersonInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "personId": "1149",
    "personCode": "3536895491",
    "personName": "test test",
    "personFamilyName": "test",
    "personGivenName": "test",
    "gender": 0,
    "orgIndexCode": "1",
    "personPhoto": {
      "picUri": ""
    }
},
```

```
"phoneNo": "",  
"email": "",  
"remark": "",  
"beginTime": "2021-04-25T16:19:27+08:00",  
"endTime": "2031-04-25T16:19:27+08:00",  
"cards": [  
    {  
        "cardNo": "234324"  
    }  
,  
    "CustomField": [  
        {  
            "id": "12",  
            "customFieldName": "Home Address",  
            "customFieldType": 0,  
            "customFieldValue": ""  
        },  
        {  
            "id": "13",  
            "customFieldName": "Salary",  
            "customFieldType": 0,  
            "customFieldValue": ""  
        },  
        {  
            "id": "14",  
            "customFieldName": "time",  
            "customFieldType": 2,  
            "customFieldValue": ""  
        }  
    ]  
}
```

POST /artemis/api/resource/v1/person/advance/personList

Set search condition (i.e., person name) to search the specified person, and fuzzy search is supported; if the search condition is not configured, the information of all persons will be returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/person/advance/personList](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/person/advance/personList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
personName	Opt.	String	Body	Person name, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
appendInfo	Opt.	<u>appendInfo</u> []	Body	Extra person information to be returned as needed. Currently supported values: 6-room No., 19-floor No. To get room No. and floor No. information, enter [6, 19] for this field.
cardNo	Opt.	String	Body	Card number, which consists of up to 32 characters, and should contain digits or letters.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 10,
  "personName": "test",
  "appendInfo": [6, 19]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Person information list.
list[0]	Opt.	Object	Information of a person in the list. See details in PersonInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 1,
    "pageNo": 1,
    "pageSize": 10,
    "list": [
      {
        "personId": "1149",
        "personCode": "3536895491",
        "orgIndexCode": "1",
        "personName": "test test",
        "personFamilyName": "test",
        "personGivenName": "test",
        "gender": 0,
        "phoneNo": "",
        "personPhoto": {
          "picUri": ""
        }
      }
    ]
  }
}
```

```
    },
    "email": "",
    "remark": "",
    "beginTime": "2021-04-25T16:19:27+08:00",
    "endTime": "2031-04-25T16:19:27+08:00",
    "cards": [
        {
            "cardNo": "234324"
        }
    ],
    "customFieldList": [
        {
            "id": "12",
            "customFiledName": "Home Address",
            "customFieldType": 0,
            "customFieldValue": ""
        },
        {
            "id": "13",
            "customFiledName": "Salary",
            "customFieldType": 0,
            "customFieldValue": ""
        },
        {
            "id": "14",
            "customFiledName": "time",
            "customFieldType": 2,
            "customFieldValue": ""
        }
    ]
}
```

POST /artemis/api/resource/v1/person/picture_data

Get the URI of profile picture uploaded when adding person, and then download the picture from Recording Server according to the URI.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/person/picture_data](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/person/picture_data)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
domainId	Opt.	Number	Header	Domain ID, which consists of up to 32 characters: 0-LAN, 1-WAN.
picUri	Req.	String	Body	Relative URI of picture, which is returned when adding persons. And the URI contains up to 256 characters.
personId	Opt.	String	Body	Person ID, which is returned when adding persons. And the ID contains up to 64 characters. It is mutually exclusive with personCode , and only one of them is allowed.
personCode	Opt.	String	Body	Person code, which consists of up to 16 characters, and only digits or letters are allowed. It is mutually exclusive with personId , and only one of them is allowed.

Request Example

```
{
  "personId": "1135",
  "picUri": "0B4E92A30AF914C1285613A4FBD9F761F"
}
```

Response Parameters

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

Parameter	Req. or Opt.	Data Type	Description
			Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	String	Returned picture data.

Response Example

```
"data:image/jpeg;base64,/9j/4AAQSkzFYSEbxpSTWII7lb2dtYSUW4zd9E/K/U+h9Ls
49L0y20yFyy29ukSs3UhVAB/SigyEjFFG5+2RioRUV0P/2Q=="
"data:image/jpeg;base64,/9j/4AAQSkzFYSEbxpSTWII7lb2dtYSUW4zd9E/K/U+h9Ls4
9L0y20yFyy29ukSs3UhVAB/SigyEjFFG5+2RioRUV0P/2Q=="
```

POST /artemis/api/resource/v1/person/single/add

Add a person.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/person/single/add](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/person/single/add)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
personCode	Opt.	String	Body	Person code, a customized employee ID when you add the person, which cannot be modified once set. The maximum length is 16.
personGivenName	Req.	String	Body	Person name, which consists of up to 256 characters.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
personFamily Name	Req.	String	Body	Person's last name, which consists of up to 256 characters.
gender	Opt.	String	Body	1-male, 2-female, 0-unknown.
orgIndexCode	Req.	String	Body	Person's organization ID.
phoneNo	Opt.	String	Body	Person's mobile phone number.
email	Opt.	String	Body	Person's email address.
faces	Opt.	Array	Body	Face information list.
faces[0]	Opt.	Object	Body	Information of a face in the list, refer to face for details.
fingerPrint	Opt.	Array	Body	Fingerprint information list.
fingerPrint[0]	Opt.	Object	Body	Information of a fingerprint in the list, refer to FingerPrint for details.
remark	Opt.	String	Body	Remarks, which consists of up to 128 characters.
cards	Opt.	Array	Body	Card information list.
cards[0]	Opt.	Object	Body	Information of a card in the list, refer to Card for details.
beginTime	Opt.	String	Body	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". The maximum length is 64 bytes.
endTime	Opt.	String	Body	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". The maximum length is 64 bytes.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
residentRoom No	Opt.	Number	Body	Resident room No.: [1, 9999].
residentFloor No	Opt.	Number	Body	Resident floor No.: [1, 999].

Request Example

```
{
  "personCode": "123245214",
  "personFamilyName": "LI",
  "personGivenName": "person0",
  "gender": 1,
  "orgIndexCode": "1",
  "remark": "description",
  "phoneNo": "13000110011",
  "email": "person1@qq.com",
  "cards": [
    {
      "cardNo": "123456"
    }
  ],
  "beginTime": "2020-05-26T15:00:00+08:00",
  "endTime": "2030-05-26T15:00:00+08:00"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	String	Added person ID.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": "1150"
}
```

POST /artemis/api/resource/v1/person/single/update

Edit a person's information.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/person/single/update](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/person/single/update)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
personId	Req.	String	Body	Person ID, GUID allocated by system and for internal use. The maximum length is 16.
personCode	Opt.	String	Body	Person code, a customized employee ID when you add the person, which cannot be modified once set. The maximum length is 16.
personGivenName	Opt.	String	Body	Person name, which consists of up to 256 characters.
personFamilyName	Opt.	String	Body	Person's last name, which consists of up to 256 characters.
gender	Opt.	Number	Body	1-male, 2-female, 0-unknown.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
orgIndexCode	Opt.	String	Body	Person's organization ID. This field is not required when editing the person's name.
phoneNo	Opt.	String	Body	Person's mobile phone number.
email	Opt.	String	Body	Person's email address.
remark	Opt.	String	Body	Remarks, which consists of up to 128 characters.
cards	Opt.	Array	Body	Card information list.
cards[0]	Opt.	Object	Body	Information of a card in the list, refer to Card for details.
beginTime	Opt.	String	Body	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". The maximum length is 64 bytes.
endTime	Opt.	String	Body	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". The maximum length is 64 bytes.
residentRoom No	Opt.	Number	Body	Resident room No.: [1, 999].
residentFloor No	Opt.	Number	Body	Resident floor No.: [1, 999].

Request Example

```
{
  "personId": "1150",
  "personCode": "123245214",
  "personFamilyName": "Li",
  "personGivenName": "person0",
  "orgIndexCode": "1",
  "gender": 1,
  "phoneNo": "13000110011",
```

```

"remark": "description",
"email": "person1000@qq.com",
"cards": [
  {
    "cardNo": "123456"
  }
],
"beginTime": "2022-05-26T15:00:00+08:00",
"endTime": "2030-05-26T15:00:00+08:00"
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	String	Response result, if succeeded, this field is null.

Response Example

```
{
  "code": "0",
  "msg": "ok",
  "data": ""
}
```

POST /artemis/api/resource/v1/person/single/delete

Delete a person.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/person/single/delete](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/person/single/delete)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
personId	Opt.	String	Body	Person ID, which is returned when adding person and consists of up to 64 characters. If this field is not configured, the platform will automatically generate an ID. It is mutually exclusive with personCode , and only one of them is allowed.
personCode	Opt.	String	Body	Person code, which consists of up to 16 characters, and only digits or letters are allowed. It is mutually exclusive with personId , and only one of them is allowed.
adminPassword	Opt.	String	Body	The admin password, which consists of up to 64 characters, but cannot contain special characters like '/ \ : * ? " < >

Request Example

```
{
  "personId": "1",
  "adminPassword": "12345"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Info	Response data details, if succeeded, this field is null. If the admin password is incorrect, the number of remaining attempts will be returned.

Table 5-2 Info Object Description

Parameter	Req. or Opt.	Data Type	Description
remainLockNumber	Opt.	Number	Number of remaining attempts. This field will be returned when the admin password is incorrect. The IP will be locked when the maximum attempts reached.

Response Example

```
{
  "code": "2",
  "msg": "Incorrect request parameter",
  "data":{
    "remainLockNumber": 4
  }
}
```

POST /artemis/api/resource/v1/person/face/update

Edit the information of face linked with the person.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/person/face/update](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/person/face/update)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like ' / \ : * ? " < >
personId	Opt.	String	Body	Person ID, which is returned when adding person and consists of up to 16 characters. If this field is not configured, the platform will automatically generate an ID. It is mutually exclusive with personCode , and only one of them is allowed.
faceData	Req.	String	Body	Face information of the person encoded by Base64.
personCode	Opt.	String	Body	Person code, which consists of up to 16 characters, and only digits or letters are allowed. It is mutually exclusive with personId , and only one of them is allowed.

Request Example

```
{
  "personId": "1",
  "faceData": "AQSkzFYSEbxpSTWII7lb2dtYSUW4"
}
```

Response Parameters

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

Parameter	Req. or Opt.	Data Type	Description
			Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	String	Response result, if succeeded, this field is null.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

POST /artemis/api/resource/v1/person/fingerPrints/update

Edit the information of fingerprints linked with the person.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/person/fingerPrints/update](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/person/fingerPrints/update)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like ' / \ : * ? " < >
personId	Opt.	String	Body	Person ID, which is returned when adding person and consists of up to 16 characters. If this field is not configured, the

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				platform will automatically generate an ID. It is mutually exclusive with personCode , and only one of them is allowed.
personCode	Opt.	String	Body	Person code, which consists of up to 16 characters, and only digits or letters are allowed. It is mutually exclusive with personId , and only one of them is allowed.
fingerPrint	Opt.	Array	Body	Fingerprint information list.
fingerPrint[0]	Opt.	Object	Body	Information of a fingerprint in the list, refer to FingerPrint for details.

Request Example

```
{
  "personId": "1",
  "fingerPrint": [
    {
      "fingerPrintIndexCode": "1",
      "fingerPrintName": "fringe_pringt_01",
      "fingerPrintData": "228697F1AD0146C8D00",
      "relatedCardNo": "1123"
    }
  ]
}
```

Response Parameters

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

Parameter	Req. or Opt.	Data Type	Description
			Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Array	List of fingerprint updating results.
data[0]	Opt.	Object	A fingerprint updating result in the list, see details in fingerPrintUpdateResult .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

POST /artemis/api/resource/v1/person/customFields

Get the person's custom information list, and all the information is returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/person/customFields](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/person/customFields)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483648.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 2
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Persons' custom information list.
list[0]	Opt.	Object	Custom information about a person. See details in CustomField .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 3,
    "pageNo": 1,
    "pageSize": 2,
    "list": [
      {
        "id": "12",
        "customFieldName": "Home Address",
        "customFieldType": 0
      },
      {
        "id": "13",
        "customFieldName": "Salary",
        "customFieldType": 0
      }
    ]
  }
}
```

POST /artemis/api/resource/v1/person/personId/customFieldsUpdate

Edit the person's custom information.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/person/personId/customFieldsUpdate](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/person/personId/customFieldsUpdate)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
personId	Opt.	String	Body	Person ID, which is returned when adding person and consists of up to 16 characters.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				It is mutually exclusive with personCode , and only one of them is allowed.
list	Opt.	Array	Body	List of person custom information.
list[0]	Opt.	Object	Body	Custom information of a person. See details in <u>CustomField</u> .
personCode	Opt.	String	Body	Person code, which contains up to 16 characters, and only digits or letters are allowed. It is mutually exclusive with personId , and only one of them is allowed.

Request Example

```
{
  "personId": "1150",
  "list": [
    {
      "id": "12",
      "customFilledName": "ssss",
      "customFieldType": 2,
      "customFieldValue": "2354"
    }
  ]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to <u>Status or Error Code</u> for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to

Parameter	Req. or Opt.	Data Type	Description
			<i>Status or Error Code</i> for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

POST /artemis/api/acs/v1/faceCheck

Verify the validity of face picture (a few seconds are required for verifying a picture). Currently, the API is only supported by the MinMoe devices and the barrier gates (only when the barrier gate is linked to MinMoe). It is used for linking face picture to the person when adding a person.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/acs/v1/faceCheck](https://[serverAddress]:[serverPort]/artemis/api/acs/v1/faceCheck)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like ' / \ : * ? " < >
faceData	Req.	String	Body	Face picture data (Base64).
acsDevIndexCode	Req.	String	Body	Access control device ID, which consists of up to 64 characters.

Request Example

```
{
  "faceData": "4AAQSkzFYSEbxpSTWII7lb2dtYSUW4zd9E/K",
  "acsDevIndexCode": "1"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

POST /artemis/api/visitor/v1/auth/reapplication

Apply persons' access level settings or information (person ID, person name, face picture, fingerprint, card No., validity, etc. according to device capability) to device when the persons' access level or person information changed.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/visitor/v1/auth/reapplication](https://[serverAddress]:[serverPort]/artemis/api/visitor/v1/auth/reapplication)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
orderId	Req.	String	Body	Currently not in use.
ImmediateDownload	Opt.	Integer	Body	0-immediately apply persons, including those which have failed, 1-immediately apply persons, excluding those which have failed
personIds	Opt.	String	Body	Person ID list. Multiple items are separated by comma.
doorIndexCodes	Opt.	String	Body	Door ID list. Multiple items are separated by comma.

Response Example

```
{
  "ImmediateDownload": 0,
  "personIds": "1",
  "doorIndexCodes": "2"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code contains up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description contains up to 256 characters.
data	Opt.	String	Response data.

Response Example

```
{
  "code": "0",
  "msg": "ok",
  "data": ""
}
```

POST /artemis/api/acs/v1/auth/applicationResult

Get status details of applying person information or persons' access level settings to device. Currently, the returned status details are about applying failure and waiting to be applied.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/acs/v1/auth/applicationResult](https://[serverAddress]:[serverPort]/artemis/api/acs/v1/auth/applicationResult)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < > .
applicationResultType	Req.	Number	Body	Applying result type: 1-get statistics data, 2-get error information.
pageNo	Opt.	Number	Body	The current page No., which is between 1 and 2147483647. The maximum length is 10 bytes. This parameter is valid only when the value of applicationResultType is 2.
pageSize	Opt.	Number	Body	Number of records on each page, which is between 1 and 500. The maximum length is 4 bytes. This parameter is valid

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				only when the value of applicationResultType is 2.
type	Req.	Number	Body	Access level type: 1 (access control), 2 (visitor).

Request Example

```
{
  "applicationResultType": 1,
  "pageNo": 1,
  "pageSize": 2,
  "type": 1
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Applying result details.
statisticResult	Opt.	Object	Statistics results, see details in StatisticResult . This parameter will be returned when the value of applicationResultType is 1.
applicationErrorResult	Opt.	Object	Applying failure information, see details in ApplicationErrorResult . This parameter will be returned when the value of applicationResultType is 2.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "statisticResult": {
      "unApplicationCount": 3,
      "applicationFailCount": 2,
      "editAndUnApplicationCount": 1
    }
  }
}
```

POST /artemis/api/resource/v1/person/customFields/single/add

Add a custom field.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/person/customFields/single/add](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/person/customFields/single/add)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
customFieldList	Opt.	CustomField []	Body	List of custom fields. See details in CustomField .

Request Example

```
{
  "customFieldList": {
    "customField": [
      {
        "customFieldName": "123",
        "customFieldType": 0,
        "presetValueList": {
          "presetValue": [
            {
              "value": "0",
              "ID": "1"
            }
          ]
        }
      }
    ]
  }
}
```

```

        }
    ],
    "isPublic": 0,
    "isShow": 1
}
]
}
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data":{
    "Id": "1",
    "customFieldName": "www",
    "customFieldType": 0,
    "isPublic": 0
  }
}
```

POST /artemis/api/resource/v1/person/customFields/single/modify

Edit the custom field information.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/person/customFields/single/modify](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/person/customFields/single/modify)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
customFieldList	Opt.	CustomField []	Body	List of custom fields. See details in <u>CustomField</u> .

Request Example

```
{
  "customFieldList": {
    "customField": [
      {
        "customFieldId": "1",
        "customFieldName": "123",
        "isShow": 1,
        "customFieldName": 3,
        "presetValueList": {
          "presetValue": [
            {
              "value": "0",
              "ID": "1"
            }
          ]
        }
      }
    ]
  }
}
```

Response Parameters

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

Parameter	Req. or Opt.	Data Type	Description
			Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to <u>Status or Error Code</u> for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

POST /artemis/api/resource/v1/person/customFields/single/delete

Delete a custom field. Custom fields related to person information in the AD domain cannot be deleted.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/person/customFields/single/delete](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/person/customFields/single/delete)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
customFieldId	Req.	String	Body	Custom field ID.

Request Example

```
{
  "customFieldId": "1"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

POST /artemis/api/resource/v1/person/qrcodeconfig/get

Get the QR code configuration of persons in the current HikCentral Professional system: whether to use static or dynamic QR code globally.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/person/qrcodeconfig/get](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/person/qrcodeconfig/get)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >

Request Example

```
{
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
/data/type	Opt.	Integer	QR code type: 0-static QR code, 1-dynamic QR code.
/data/validTime	Opt.	Integer	Validity of dynamic QR code: 1 to 10080 minutes.
/data/validTimeUnit	Opt.	Integer	Validity unit of dynamic QR code (valid only when it is a dynamic QR code, and for interface display only): 0-minute, 1-hour, 2-day.

Response Example

```
{
  "data": {
    "type": 0,
    "validTime": 0,
    "validTimeUnit": 0
  },
  "code": "",
  "msg": ""
}
```

POST /artemis/api/resource/v1/person/qrcodeconfig/update

Edit the QR code configuration of persons in the current HikCentral Professional system: whether to use static or dynamic QR code globally.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/person/qrcodeconfig/update](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/person/qrcodeconfig/update)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like ' / \ : * ? " < >
data	Req.	Object	Body	Data to be edited.
/data/type	Req.	Integer	Body	QR code type: 0-static QR code, 1-dynamic QR code.
/data/validTime	Req.	Integer	Body	Validity of dynamic QR code (valid only when it is an dynamic QR code): 1 to 10080 minutes; when /data/validTimeUnit is hour, the value should be divided by 60; /data/validTimeUnit is day, the value will be should be divided by 1440. If the

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				value is not an integer, error will be returned.
/data/ validTimeU nit	Req.	Integer	Body	Validity unit of dynamic QR code (valid only when it is an dynamic QR code, and for interface display only): 0-minute, 1-hour, 2-day.

Request Example

```
"data": {
    "type": 0,
    "validTime": 0,
    "validTimeUnit": 0
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.

Response Example

```
{
    "code": "",
    "msg": ""
}
```

POST /artemis/api/resource/v1/person/staticqrcode/get

Get the static QR code of persons in system. The static QR code is generated according to the person's card No. and returned in Base64 encoding format. The QR code is usually used for opening door via access control devices (that support static QR code parsing).

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/person/staticqrcode/get](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/person/staticqrcode/get)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
data	Req.	Object	Body	Data information.
/data/cardNo	Req.	Integer	Body	Person's card No.

Request Example

```
{
  "data": {
    "cardNo": ""
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for

Parameter	Req. or Opt.	Data Type	Description
			details. Each description can contain up to 256 characters.
data	Req.	Object	Response data details.
/data/qrcode	Req.	String	QR code data encoded by Base64.

Response Example

```
{
  "data": {
    "qrcode": ""
  },
  "code": "",
  "msg": ""
}
```

POST /artemis/api/resource/v1/person/dynamicqrcode/get

Get the dynamic QR code of persons in system. The static QR code is generated according to the person's employee No. and returned in Base64 encoding format. The QR code is usually used for opening door via access control devices (that support dynamic QR code parsing).

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/person/dynamicqrcode/get](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/person/dynamicqrcode/get)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like ' / \ : * ? " < >
data	Req.	Object	Body	Data information.
/data/employeeID	Req.	String	Body	Person's employee No.
/data/validity	Req.	Integer	Body	Expiry time, timed once the API is called, 1 to 10080 minutes, 0 by default.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
/data/openLockTimes	Req.	Integer	Body	Maximum unlocking times: [1, 255], 1 by default.
/data/qrType	Opt.	Integer	Body	Type of returned data: 0 (default value, QR code data), 1 (QR code picture).

Request Example

```
{
  "data": {
    "employeeID": "123456",
    "validity": 60,
    "openLockTimes": 1,
    "qrType": 0
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
/data/qrcode	Opt.	String	QR code data encoded by Base64.

Response Example

```
{
  "data": {
    "qrcode": ""
  },
  "code": "0",
  "msg": "Success"
}
```

POST /artemis/api/resource/v1/person/deleteconfig/get

Get the double authentication configuration of person/department deleting. When the double authentication is enabled, the admin password is required for deleting a person/department.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/person/deleteconfig/get](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/person/deleteconfig/get)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
data	Opt.	Object	Body	

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Req.	Object	See the table below.

Table 5-3 data Object Description

Parameter	Req. or Opt.	Data Type	Description
enable	Req.	integer	Whether the double authentication is enabled: 0-disable, 1-enable.

Response Example

```
{
  "data": {
    "enable": "0"
  },
  "code": "0",
  "msg": "Success"
}
```

5.3.9 Face Picture Library

POST /artemis/api/frs/v1/face/group

Set search condition (i.e., group ID and group name) to search the specified face picture libraries, and fuzzy search is supported; if the search condition is not configured, the information of all face picture libraries will be returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/frs/v1/face/group](https://[serverAddress]:[serverPort]/arTEMIS/api/frs/v1/face/group)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
indexCodes	Opt.	Array	Body	A set of face picture library IDs, currently, only one ID is supported. And each ID consists of up to 64 characters.
indexCodes[0]	Opt.	String	Body	A face picture library ID in the list.
name	Opt.	String	Body	Name of face picture library, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >. It is for fuzzy search.

Request Example

```
{
  "indexCodes": [
    "2"
  ],
  "name": ""
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code consists of up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description consists of up to 256 characters.
data	Opt.	Array	Information list of face picture libraries.
data[0]	Opt.	Object	Information of a face picture library in the list. See details in FaceGroupInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "list": [
      {
        "indexCode": "2",
        "name": "test_group",
        "description": ""
      }
    ]
  }
}
```

POST /artemis/api/frs/v1/face/group/batch/deletion

Delete a face picture library by library ID.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/frs/v1/face/group/batch/deletion](https://[serverAddress]:[serverPort]/artemis/api/frs/v1/face/group/batch/deletion)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? < >
indexCode	Req.	Array of String	Body	Array of face picture library IDs, but currently, only one ID can be set in the array. If no ID or multiple IDs are specified, error will be returned.

Request Example

```
{
  "indexCodes": [
    "1"
  ]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code consists of up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for

Parameter	Req. or Opt.	Data Type	Description
			details. Each description consists of up to 256 characters.
data	Opt.	String	Response details, if succeeded, this field is null.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

Remarks

The validity of face picture library ID will be checked when deleting by ID, if the ID is invalid, error will be returned.

POST /artemis/api/frs/v1/face/group/single/addition

Add a face picture library, and the library ID will be returned after adding.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/frs/v1/face/group/single/addition](https://[serverAddress]:[serverPort]/arTEMIS/api/frs/v1/face/group/single/addition)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
name	Req.	String	Body	Name of face picture library, which consists of 1 to 32 characters, but cannot contain

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				special characters like ' / \ : * ? " < >. It is for fuzzy search.
description	Opt.	String	Body	Description of face picture library, which contains 1 to 128 characters, but cannot contain special characters like ' / \ : * ? " < >

Request Example

```
{
  "name": "name",
  "description": "test"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code consists of up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description consists of up to 256 characters.
data	Opt.	Array	Information list of face picture libraries.
data[0]	Opt.	Object	Information of a face picture library in the list. See details in FaceGroupInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
```

```

    "indexCode": "1",
    "name": "name",
    "description": "test"
  }
}

```

POST /artemis/api/frs/v1/face/group/single/update

Edit information of a face picture library.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/frs/v1/face/group/single/update](https://[serverAddress]:[serverPort]/arTEMIS/api/frs/v1/face/group/single/update)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
indexCode	Req.	String	Body	Face picture library IDs, which can be obtained by searching for face picture libraries by condition. The ID consists of up to 10 characters.
name	Req.	String	Body	Name of face picture library, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >. It is for fuzzy search.
description	Opt.	String	Body	Description of face picture library, which contains 1 to 128 characters, but cannot contain special characters like '/ \ : * ? " < >. This field will be set to null if no value is transmitted to.

Request Example

```
{
  "indexCode": "1",
  "name": "name_mod",
  "description": "test_mod"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code consists of up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description consists of up to 256 characters.
data	Opt.	String	Response details, if succeeded, this field is null.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

Remarks

If the face picture library to be edited is already added to the identification schedule, after editing, the changed information will also be applied to device.

POST /artemis/api/frs/v1/face/groupList

Get face picture library list.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/frs/v1/face/groupList](https://[serverAddress]:[serverPort]/artemis/api/frs/v1/face/groupList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 6
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.

Parameter	Req. or Opt.	Data Type	Description
list	Opt.	Array	Information list of face picture libraries.
list[0]	Opt.	Object	Information of a face picture library in the list. See details in FaceGroupInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 2,
    "pageNo": 1,
    "pageSize": 500,
    "list": [
      {
        "indexCode": "2",
        "name": "test_group",
        "description": ""
      },
      {
        "indexCode": "1",
        "name": "1111@@@@@@@",
        "description": "erryttttttttttttttttttttttttt###"
      }
    ]
  }
}
```

POST /artemis/api/frs/v1/plan/recognition/black/restart

Apply information of all face pictures from the face picture library to the linked device.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/frs/v1/plan/recognition/black/restart](https://[serverAddress]:[serverPort]/arTEMIS/api/frs/v1/plan/recognition/black/restart)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
indexCode	Req.	String	Body	Array of face picture library IDs, but currently, only one ID can be set in the array. If no ID or multiple IDs are specified, error will be returned.

Request Example

```
{
  "indexCodes": "1"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code consists of up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description consists of up to 256 characters.
data	Opt.	String	Response details, if succeeded, this field is null.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

5.3.10 Face Information

POST /artemis/api/frs/v1/application/picture

Download the picture according to the specified URL.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/frs/v1/application/picture](https://[serverAddress]:[serverPort]/arTEMIS/api/frs/v1/application/picture)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? < >
url	Req.	String	Body	Picture URL, which should start with "Dev://", "Server//", and "Vsm://". The URL consists of up to 256 characters.
isHumanSearchPic	Opt.	Number	Body	Device used for search of matched human bodies/faces: 0-default value when this field is not configured, and value for circumstances except for 1, 2, or 3; 1-Intelligent Fusion Server; 2-DeepinMind NVR accessed via SDK; 3-DeepinMind NVR accessed via ISUP.
encodeDeviceCode	Opt.	String	Body	ID of DeepinMind NVR device accessed by SDK protocol, specially used for search via picture comparison.

Request Example

```
{
  "url": "Dev://picture/Streaming/tracks/303/?name=405812&size=405812&DEVICE=26&TYPE=0&VSM=0",
```

```
"isHumanSearchPic": 0
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code consists of up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description consists of up to 256 characters.
data	Opt.	/	Picture data.

Response Example

```
"data:image/jpeg;base64,/9j/4AAQSkzFYSEbxpSTWII7lb2dtYSUW4zd9E/K/U+h9Ls49L0y20yFyy29ukSs3UhVAB/
SigyEjFFG5+2RioRUVOP/2Q=="
"data:image/jpeg;base64,/9j/4AAQSkzFYSEbxpSTWII7lb2dtYSUW4zd9E/K/U+h9Ls49L0y20yFyy29ukSs3UhVAB/
SigyEjFFG5+2RioRUVOP/2Q=="
```

POST /artemis/api/frs/v1/face

Search for face picture information in a specified face picture library.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/frs/v1/face](https://[serverAddress]:[serverPort]/artemis/api/frs/v1/face)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
faceGroupIndexCode	Req.	String	Body	Face picture library ID, which can be obtained by getting face picture library by condition.
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.

Request Example

```
{
  "faceGroupIndexCode": "1",
  "pageNo": 1,
  "pageSize": 20
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.

Parameter	Req. or Opt.	Data Type	Description
list	Opt.	Array	Face information list.
list[0]	Opt.	Object	Information of a face in the list. See details in FaceInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 1
    "pageNo": 1,
    "pageSize": 20,
    "list": [
      {
        "indexCode": "4",
        "faceInfo": {
          "personGivenName": "san",
          "personFamilyName": "zhang",
          "sex": "1"
        },
        "facePic": {
          "faceUrl": "/9j/4AAQSkZJRgABAQEAAAAAAAD/4QBCRXhpZgAATU"
        }
      }
    ]
  }
}
```

POST /artemis/api/frs/v1/face/deletion

Remove the information of a face picture from a specified face picture library.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/frs/v1/face/deletion](https://[serverAddress]:[serverPort]/artemis/api/frs/v1/face/deletion)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
indexCodes	Req.	Array of String	Body	Array of person IDs, but currently, only one ID can be set in the array. If no ID or multiple IDs are specified, error will be returned.
faceGroupIndexCode	Req.	String	Body	Face picture library ID, which can be obtained by getting face picture library by condition.
deleteFromOrg	Opt.	String	Body	Whether to remove from the organization: "0" or null-no, "1"-yes.

Request Example

```
{
  "indexCodes": [
    "4"
  ],
  "faceGroupIndexCode": "1",
  "deleteFromOrg": "0"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code consists of up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for

Parameter	Req. or Opt.	Data Type	Description
			details. Each description consists of up to 256 characters.
data	Opt.	String	Response details, if succeeded, this field is null.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

POST /artemis/api/frs/v1/face/single/addition

Add the information of a face picture.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/frs/v1/face/single/addition](https://[serverAddress]:[serverPort]/arTEMIS/api/frs/v1/face/single/addition)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
personIndexCode	Opt.	String	Body	Person ID in the person list, if this field is configured, the person to be added is from the person list, and the fields faceInfo and facePic are invalid.
faceGroupIndexCode	Req.	String	Body	ID of face picture library that the face picture information to be added to. The ID can be

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				obtained by getting face picture library by condition.
faceInfo	Opt.	Object	Body	Face information. See details in <u>FaceInfo</u> .
facePic	Req.	Object	Body	Face picture data. See details in <u>facePic</u> .

Request Example

```
{
  "personIndexCode": "1",
  "faceGroupIndexCode": "1",
  "faceInfo": {
    "personGivenName": "san",
    "personFamilyName": "zhang",
    "sex": "1"
  },
  "facePic": {
    "faceBinaryData": "/9j/4AAQSkZJRgABAQEAQAAAAAD/4QBCRXhpZgAATU"
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to <u>Status or Error Code</u> for details). Each code consists of up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to <u>Status or Error Code</u> for details. Each description consists of up to 256 characters.
data	Req.	Object	Response data details.
indexCode	Req.	String	Face ID.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "indexCode": "4"
  }
}
```

5.3.11 Alarm Input/Output Information

POST /artemis/api/resource/v1/alarmInput/advance/alarmInputList

Set search condition (input alarm name, device ID, area ID, etc.) to search for the alarm input information; if the search condition is not configured, all alarm input information will be returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/alarmInput/advance/alarmInputList](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/alarmInput/advance/alarmInputList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483648.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
alarmInputName	Opt.	String	Body	Alarm input name, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
deviceType	Opt.	String	Body	Device type (mobileDevice, encodeDevice (default), acsDevice), which consists of up to 128 characters. Use comma to separate multiple items.
devIndexCode	Opt.	String	Body	Device ID, which consists of up to 64 characters. If the ID is specified, only the cameras of the current level will be searched for.
regionIndexCode	Opt.	String	Body	Area ID, which consists of up to 64 characters.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 2,
  "alarmInputName": "D1_0.0.0.0",
  "devIndexCode": "85",
  "regionIndexCode": "95"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.

Parameter	Req. or Opt.	Data Type	Description
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Alarm input information list.
list[0]	Opt.	Object	A specific alarm input information. See details in AlarmInputInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 1,
    "pageNo": 1,
    "pageSize": 2,
    "list": [
      {
        "alarmInputIndexCode": "1215",
        "alarmInputName": "D1_0.0.0.0",
        "regionIndexCode": "95",
        "devIndexCode": "85",
        "devResourceType": "encodeDevice",
        "networkStatus": 2
      }
    ]
  }
}
```

POST /artemis/api/resource/v1/alarmInputs

Get the alarm input information list, and all the information is returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/alarmInputs](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/alarmInputs)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483648.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
deviceType	Opt.	String	Body	Device type (mobileDevice, encodeDevice (default), acsDevice), which consists of up to 128 characters. Use comma to separate multiple items.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 2
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.

Parameter	Req. or Opt.	Data Type	Description
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Alarm input information list.
list[0]	Opt.	Object	Specific alarm input information. See details in <u>AlarmInputInfo</u> .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 129,
    "pageNo": 1,
    "pageSize": 2,
    "list": [
      {
        "alarmInputIndexCode": "1215",
        "alarmInputName": "D1_0.0.0.0",
        "regionIndexCode": "95",
        "devIndexCode": "85",
        "devResourceType": "encodeDevice",
        "networkStatus": 2
      },
      {
        "alarmInputIndexCode": "1214",
        "alarmInputName": "A1",
        "regionIndexCode": "95",
        "devIndexCode": "85",
        "devResourceType": "encodeDevice",
        "networkStatus": 2
      }
    ]
  }
}
```

POST /artemis/api/resource/v1/alarmInputs/indexCode

Get the alarm input information according to alarm input ID.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/alarmInputs/indexCode](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/alarmInputs/indexCode)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
alarmInputIndexCode	Req.	String	Body	Alarm input ID, which consists of up to 64 characters.

Request Example

```
{
  "alarmInputIndexCode": "1215"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Alarm input information. See details in AlarmInputInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
```

```

"data": {
    "alarmInputIndexCode": "1215",
    "alarmInputName": "D1_0.0.0.0",
    "regionIndexCode": "95",
    "devIndexCode": "85",
    "devResourceType": "encodeDevice",
    "networkStatus": 2
}
}

```

POST /artemis/api/resource/v1/alarmOutput/advance/alarmOutputList

Set search condition (output alarm name, device ID, area ID, etc.) to search for the alarm output information; if the search condition is not configured, all alarm output information will be returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/alarmOuput/advance/](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/alarmOuput/advance/alarmOutputList)
[alarmOutputList](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/alarmOuput/advance/alarmOutputList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483648.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
alarmOutputName	Opt.	String	Body	Alarm output name, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? < >
deviceType	Opt.	String	Body	Device type (mobileDevice, encodeDevice (default), acsDevice), which consists of up to 128 characters. Use

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				comma to separate multiple items.
devIndexCode	Opt.	String	Body	Device ID, which consists of up to 64 characters. If the ID is specified, only the cameras of the current level will be searched for.
regionIndexCode	Opt.	String	Body	Area ID, which consists of up to 64 characters.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 10,
  "alarmOutputName": "0.0.0.0",
  "devIndexCode": "85",
  "regionIndexCode": "95"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.

Parameter	Req. or Opt.	Data Type	Description
list	Opt.	Array	Alarm output information list.
list[0]	Opt.	Object	A specific alarm output information. See details in <u>AlarmOutputInfo</u> .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 2,
    "pageNo": 1,
    "pageSize": 10,
    "list": [
      {
        "alarmOutputIndexCode": "1218",
        "alarmOutputName": "D2_0.0.0.0",
        "regionIndexCode": "95",
        "devIndexCode": "85",
        "devResourceType": "encodeDevice",
        "status": -1
      },
      {
        "alarmOutputIndexCode": "1217",
        "alarmOutputName": "D1_0.0.0.0",
        "regionIndexCode": "95",
        "devIndexCode": "85",
        "devResourceType": "encodeDevice",
        "status": -1
      }
    ]
  }
}
```

POST /artemis/api/resource/v1/alarmOutput/controlling

Control alarm output.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/alarmOutput/controlling](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/alarmOutput/controlling)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
alarmOutputIndexCode	Req.	String	Body	Alarm output ID, which consists of up to 64 characters.
action	Req.	Number	Body	Operation: 0-disable alarm output, 1-enable alarm output.

Request Example

```
{
  "alarmOutputIndexCode": "1",
  "action": 1
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
```

```

    "data": ""
}
```

POST /artemis/api/resource/v1/alarmOutputs

Get the alarm output information list, and all the information is returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/resource/v1/alarmOutputs](https://[serverAddress]:[serverPort]/artemis/api/resource/v1/alarmOutputs)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483648.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
deviceType	Opt.	String	Body	Device type (mobileDevice, encodeDevice (default), acsDevice), which consists of up to 128 characters. Use comma to separate multiple items.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 2
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Alarm output information list.
list[0]	Opt.	Object	Specific alarm output information. See details in AlarmOutputInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 81,
    "pageNo": 1,
    "pageSize": 2,
    "list": [
      {
        "alarmOutputIndexCode": "1218",
        "alarmOutputName": "D2_0.0.0.0",
        "regionIndexCode": "95",
        "devIndexCode": "85",
        "devResourceType": "encodeDevice",
        "status": -1
      },
      {
        "alarmOutputIndexCode": "1217",
        "alarmOutputName": "D1_0.0.0.0",
        "regionIndexCode": "95",
        "devIndexCode": "85",
        "devResourceType": "encodeDevice",
        "status": -1
      }
    ]
  }
}
```

```

        "regionIndexCode": "95",
        "devIndexCode": "85",
        "devResourceType": "encodeDevice",
        "status": -1
    }
]
}
}

```

POST /artemis/api/resource/v1/alarmOutputs/indexCode

Get the alarm output information according to alarm output ID.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/resource/v1/alarmOutputs/indexCode](https://[serverAddress]:[serverPort]/arTEMIS/api/resource/v1/alarmOutputs/indexCode)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
alarmOutputIndexCode	Req.	String	Body	Alarm output ID, which consists of up to 64 characters.

Request Example

```
{
    "alarmOutputIndexCode": "1218"
}
```

Response Parameters

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

Parameter	Req. or Opt.	Data Type	Description
			Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to <u>Status or Error Code</u> for details. Each description can contain up to 256 characters.
data	Opt.	Object	Alarm output information. See details in <u>AlarmOutputInfo</u> .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "alarmOutputIndexCode": "1218",
    "alarmOutputName": "D2_0.0.0.0",
    "regionIndexCode": "95",
    "devIndexCode": "85",
    "devResourceType": "encodeDevice",
    "status": -1
  }
}
```

5.4 Video API

Here provides APIs for getting streaming URL for live view, playback, and two-way audio, preset management, patrol management, PTZ control, getting real-time people counting statistics, and so on.

5.4.1 POST /artemis/api/aiapplication/v1/people/statisticsTotalNumByTime

Get people counting statistics of a specified camera by minute, hour, day, and month.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/aiapplication/v1/people/statisticsTotalNumByTime](https://[serverAddress]:[serverPort]/artemis/api/aiapplication/v1/people/statisticsTotalNumByTime)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < > .
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
cameraIndexCodes	Req.	String	Body	Camera ID, and the maximum length is 1024 bytes. For multiple IDs, each two ones should be separated by comma and up to 10 IDs are allowed.
statisticsType	Req.	Number	Body	Statistics type: 0-by hour, 1-by day, 2-by month, 4-by minute.
startTime	Req.	String	Body	Start time in ISO 8601 format of search, which is represented by "yyyy-MM-ddTHH:mm:ss +current time zone", e.g., "2018-07-26T15:00:00+08:00". The maximum length is 64 bytes.
endTime	Req.	String	Body	End time in ISO 8601 format of search, which is represented by "yyyy-MM-ddTHH:mm:ss +current time zone", e.g., "2018-07-26T15:00:00+08:00". The maximum length is 64 bytes.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 20,
```

```

"cameraIndexCodes": "1",
"statisticsType": 0,
"startTime": "2018-07-26T15:00:00+08:00",
"endTime": "2018-07-26T16:00:00+08:00"
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
completeness	Opt.	Number	Whether the data is complete: 0-no, 1-yes.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	People counting statistics list.
list[0]	Opt.	Object	People counting statistics of an item in the list. See details in PeopleCountInfo .

Response Example

```

{
  "code": "0",
  "msg": "Success",
  "data": {
    "completeness": 1,
    "pageNo": 1,
    "pageSize": 20,
    "list": [
      {
        "time": "2018-07-26T15:00:00+08:00",
        "cameraIndexCode": "1",
        ...
      }
    ]
  }
}

```

```

    "exitNum": 5,
    "enterNum": 1
}
]
}
}

```

5.4.2 POST /artemis/api/aiapplication/v1/people/resourceGroupRealTimeCount

Get the real-time statistics of resource groups.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/aiapplication/v1/people/resourceGroupRealTimeCount](https://[serverAddress]:[serverPort]/artemis/api/aiapplication/v1/people/resourceGroupRealTimeCount)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
resourceGroupIndexCodes	Req.	String	Body	Resource group ID, the maximum length is 1024 characters. Up to 10 group IDs are allowed. Use comma to separate different IDs.

Request Example

```
{
  "resourceGroupIndexCodes":"1"
}
```

Response Parameters

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

Parameter	Req. or Opt.	Data Type	Description
			Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to <u>Status or Error Code</u> for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
list	Opt.	Array	List of the real-time statistics of resource groups.
list[0]	Opt.	<u>RealPeopleCountInfo</u>	The real-time statistics of a resource group.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "list": [
      {
        "time": "2018-07-26T15:00:00+08:00",
        "cameraIndexCode": "1",
        "exitNum": 5,
        "enterNum": 1
      }
    ]
  }
}
```

5.4.3 POST /artemis/api/aiapplication/v1/people/advance/resourceGroupList

Get the list of resource groups.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/aiapplication/v1/people/advance/resourceGroupList](https://[serverAddress]:[serverPort]/artemis/api/aiapplication/v1/people/advance/resourceGroupList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
siteIndexCode	Opt.	String	Body	Site ID, which consists of up to 64 characters.
name	Opt.	String	Body	Name of the resource group.
resourceGroupIndexCodes	Opt.	String	Body	Resource group ID. Use comma to separate different IDs.

Request Example

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

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.

Parameter	Req. or Opt.	Data Type	Description
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of matched results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	List of resource groups.
list[0]	Opt.	<i>ResourceGroupInfo</i> <i>o</i>	Information about a resource group.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 2,
    "pageNo": 1,
    "pageSize": 10,
    "list": [
    ]
  }
}
```

5.4.4 POST /artemis/api/aiapplication/v1/people/statisticsHeatMapByTime

Get the heat map information of a specific camera.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/aiapplication/v1/people/statisticsHeatMapByTime](https://[serverAddress]:[serverPort]/artemis/api/aiapplication/v1/people/statisticsHeatMapByTime)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
cameraIndexCode	Req.	String	Body	Camera ID, which consists of up to 1024 characters.
statisticsType	Req.	Number	Body	Heat map type: 0 (dwell duration), 1 (number of people).
beginTime	Req.	String	Body	Start time of search, 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". The maximum length is 64 bytes.
endTime	Req.	String	Body	End time of search, 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". The maximum length is 64 bytes.

Request Example

```
{
  "cameraIndexCode": "1",
  "statisticsType": 0,
  "beginTime": "2022-02-16T15:00:00+08:00",
  "endTime": "2022-02-16T16:00:00+08:00"
}
```

Response Parameters

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

Parameter	Req. or Opt.	Data Type	Description
			Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Req.	PageInfo	Response data details.

PageInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
maxValue	Req.	Number	The maximum heat value.
minValue	Req.	Number	The minimum heat value.
arrayLine	Req.	Number	Average heat value.
arrayLine	Req.	Number	Row value of map pixels. When this field is 0, the pixel data information does not exist.
arrayColum	Req.	Number	Column value of map pixels. When this field is 0, the pixel data information does not exist.
buffer	Opt.	String	Heat map pixel data information (base64). The calculation method of buffer : Convert the matrix array from integer to string, and encode it by Base64. In this way, to get the matrix array, the buffer can be decoded by Base64 first, and then each 4 byte can be converted to an integer to form a matrix array.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "maxValue": -1,
```

```

    "minValue": -1,
    "averageValue": -1,
    "arrayLine": -1,
    "arrayColum": -1,
    "buffer": ""
}
}

```

5.4.5 POST /artemis/api/video/v1/cameras/playbackURLs

Get the streaming URL for playback.



Note

- During playback by RTSP_s, RTMP or HLS, follow the following format: URL + "&beginTime=2022-06-24T22:59:48.000-07:00&endTime=2022-06-25T00:46:36.000-07:00".
- As the time format returned by default does contain the millisecond, the millisecond ".000" should be added for URL encapsulating; the time format returned by OpenAPI when **internationalStandardTime** is 1 comes with the millisecond already, therefore, further processing is not required.
- Audio playback via HLS and RTMP only supports Advanced Audio Coding (AAC).
- Get the streaming URL for playback via the following protocols: RTSP, RTSP_S, WebSocket, WebSocket_S, RTMP (H.264 video encoding only), and HLS (Cloud Storage 2.2.8 above and CVR 3.2.8 above (5.x is excluded) ; H.264 video encoding only)
- Supports searching by device time in DST in ISO 8601 format, which is represented by "yyyy-MMddTHH:mm:ss+current time difference". When you are searching by the same time in and out of DST, you can differentiate them by the current time difference, e.g., searching for recordings from 2022-11-06T01:10:00-07:00 to 2022-11-06T01:10:00-08:00 means searching for recordings from 1:10 in DST and 1:10 out of DST, i.e., the duration is an hour.
- Supports streaming from cameras on remote sites. For cascaded streaming via two streaming media, only RTSP and RTSP_S are supported.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/video/v1/cameras/playbackURLs](https://[serverAddress]:[serverPort]/artemis/api/video/v1/cameras/playbackURLs)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
domainId	Opt.	Number	Header	Domain ID: 0-LAN, 1-WAN.
cameraIndexCode	Req.	String	Body	Camera ID, which consists of up to 64 characters.
recordType	Req.	String	Body	Recording types, i.e., "0" (main recording) and "1" (auxiliary recording). And this field can contain up to 32 characters.
protocol	Opt.	String	Body	Streaming protocol (application layer protocol) types: "rtsp" (default) and "websocket" (for JsDecoder SDK), "rtsp_s" (for getting stream via standard RTSP), "websocket_s", "hls", "rtmp". And this field can contain up to 64 characters.
transmode	Opt.	Number	Body	Transfer protocol types: 0-UDP, 1-TCP (default). And this field is valid when the protocol is set to "rtsp".
beginTime	Req.	String	Body	Start time of search, which is in ISO 8601 standard time format: yyyy-MM-dd'T'HH:mm:ss.SSSzzz, e.g., 2018-07-26T15:00:00 + 08:00. And the time consists of up to 64 characters.
endTime	Req.	String	Body	End time of search, which is in ISO 8601 standard time format: yyyy-MM-dd'T'HH:mm:ss.SSSzzz, e.g., 2018-07-26T15:00:00 + 08:00. And the time consists of up to 64 characters.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
uuid	Opt.	String	Body	ID for searching by page, which consists of up to 64 characters. This UUID is returned after the previous search and it is used for the next search of remaining videos. By default, it is "null".
mergeSegment	Opt.	Number	Body	Whether to merge returned recordings according to the request time parameter: 0-(by default) return recordings by the recording time on device, 1-return recordings by the time from request parameters (auto-segmented by the min. valid interval).
storageLocation	Opt.	Number	Body	Storage location of the camera on the remote site, valid for searching for playback URL of cameras on remote sites: 0-central storage (by default), 1-remote storage.
internationalStandardTime	Opt.	Number	Body	Whether to return time information in international standard time format when it is the standard protocol: 1-yes, 2-no (by default). The international standard time format is represented by "yyyy-MM-ddTHH:mm:ssZ".



The days between start time and end time should be no more than 31 days.

Request Example

```
{
  "beginTime": "2021-04-26T00:00:00+08:00",
  "endTime": "2021-04-26T01:00:00+08:00",
```

```

"cameraIndexCode": "19",
"recordType": "0",
"protocol": "rtsp",
"transmode": "1",
"uuid": "",
"mergeSegment": 0,
"storageLocation": 0,
"internationalStandardTime": 0
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Playback URL and video segment information. See details in PlaybackUrlVideoInfo and VideoInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "url": "[sms:playback]rtsp://10.41.13.178:554/file/dvr://10.41.7.143:8001/0/channels/33?tcpport=10000",
    "authentication": "J3mnUxvJ4vcJ5vdN25FrX/Xru/5fhLD7DbVcYjWNobrt6NhHuwqYwWxulqfWcFPWhRyeWPi7V4bqkbEiVj9NEuRyrx5Vkg0ZRF9vrR6MJAcref96KJfnBEdfKgVbPB0sF4nSelxEIU5oEE2dBWJMsrKETW7QAhMQXcB2e/SY6NXcHZ/QmE4v27j3H2Y3eJWjrFwfMSITcThZJPhv1nLGYZ+BVo+zSTKaVX6VP3DeTeiDpQtX0Dvq82+zyAyNBVvehAht3QKVf5DCosr8o65o8HEEdq+e/mvrZ4N3EcxadJrMcJmbtln2Ykm7SAbxrCQw2hrnwwDhi0nKYSJJszfvA==",
    "uuid": "",
    "recordLocation": 1
  }
}
```

5.4.6 POST /artemis/api/video/v1/cameras/previewURLs

Get the streaming URL for live view via protocols including RTSP, RTSP_S, WebSocket, WebSocket_S, RTMP, and HLS. Streaming via RTMP and HLS only supports H.264 video encoding. Audio streaming only supports Advanced Audio Coding (AAC).



Note

Supports streaming from cameras on remote sites. For cascaded streaming via two streaming media, only RTSP and RTSP_S are supported.

Request URL

`https://[serverAddress]:[serverPort]/arTEMIS/api/video/v1/cameras/previewURLs`

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
domainId	Opt.	Number	Header	Domain ID, which consists of up to 32 characters: 0-LAN, 1-WAN.
cameraIndexCode	Req.	String	Body	Camera ID, which consists of up to 64 characters.
streamType	Opt.	Number	Body	Stream types: 0-main stream (default), 1-sub-stream.
protocol	Opt.	String	Body	Streaming protocol (application layer protocol) types: "rtsp" (default), "websocket" (for JsDecoder SDK), "rtsp_s" (for getting stream via standard RTSP), "websocket_s", "hls", "rtmp". And this field can contain up to 16 characters.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
transmode	Opt.	Number	Body	Transfer protocol types: 0-UDP, 1-TCP (default).
requestWebsocketProtocol	Opt.	Number	Body	Streaming type of websocket: 0-ws, 1-wss. This parameter is required when the value of protocol is "websocket".

Request Example

```
{
  "cameraIndexCode": "1",
  "streamType": 0,
  "protocol": "rtsp",
  "transmode": 1
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Streaming URL information. See details in UrlInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "url": "[sms:preview]rtsp://10.41.13.178:554/hikvision://10.41.7.66:8001:0:0",
    "authentication": "Fsd8eugj2+RYG6EKEgN8/EHy6o5XPdkxD8t7Dy+EH6moE4G0X9+60C7PucJ8TlZOJHpXIM0y"
}
```

```
+DwPdkSiALHgLmcWShmtWnKnfD5lhfDSMakMUxtlqfqOalXw5AAcSxoz76LkR8qzI8IKncuhXO9RslvYiCOUJN/
b3tmwUH999oWgJbX6jd3mN/p3FPgi4NtkbADKKnmjEY8NI9cPDcHaMfV+oJCYFOaVCjl3BU9AnPY="
}
```

5.4.7 POST /artemis/api/video/v2/cameras/previewURLs

Batch get streaming URLs for live view via protocols including RTSP, RTSP_S, WebSocket, WebSocket_S, RTMP, and HLS. Streaming via RTMP and HLS only supports H.264 video encoding. Audio streaming only supports Advanced Audio Coding (AAC).



Supports streaming from cameras on remote sites. For cascaded streaming via two streaming media, only RTSP and RTSP_S are supported.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/video/v2/cameras/previewURLs](https://[serverAddress]:[serverPort]/artemis/api/video/v2/cameras/previewURLs)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
domainId	Opt.	Number	Header	Domain ID, which consists of up to 32 characters: 0-LAN, 1-WAN.
cameraIndexCodes	Req.	String	Body	Camera IDs, which consist of up to 1024 characters.
streamType	Opt.	Number	Body	Stream types: 0-main stream (default), 1-sub-stream. And this field can contain up to 32 characters.
protocol	Opt.	String	Body	Streaming protocol (application layer protocol) types: "rtsp" (default), "websocket" (for JsDecoder SDK), "rtsp_s" (for

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				getting stream via standard RTSP), "websocket_s", "hls", "rtmp". And this field can contain up to 16 characters.
transmode	Opt.	Number	Body	Transfer protocol types: 0-UDP, 1-TCP (default). And this field can contain up to 32 characters.

Request Example

```
{
  "cameraIndexCode": "1",
  "streamType": 0,
  "protocol": "rtsp",
  "transmode": 1,
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Streaming URL information. See details in UrlInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
```

```

"list": [
    {
        "url": "[sms:preview]rtsp://10.19.131.67:554/hikvision://10.14.67.204:8000:0:0?bandwidth=4",
        "authentication": "Fsd8eugi2+RYG6EKEgN8/EHy6o5XPdkxD8t7Dy
+Eh6n0ECvdKuvVH5xFnTYOEuACuTyjZTCemXqQf6bzYDmvszxZmoGM2j/b2EzE
+96DduQT2+tt4jaSxWVkPcEHli3IH6kWp/EerFa/TKSohluDk3nw7QoNMKLOsJpCqizP/
OIhr8Qv6L0cJoFBw8KSd9J6APaTb7I9dHVStExL/R6NHmNBH9dfjcSgKOCEQRz9A="
    },
    {
        "url": "[sms:preview]rtsp://10.19.131.67:554/hikvision://10.41.7.98:8089:0:0?bandwidth=2",
        "authentication": "J3mnUvx4vcJ5vdN25FrXxtO+7SQkYajdcztnn8uDbQ3XXPpnNaZjVNzzmf84oM3tO/
TzJUoEh3SEXJfcADJK0XlpPUAFNxNVbO2N5Wx1ueJwloQ94oxWjBNqcUfgqdwu/jc27BGG6U8J
+FvLPoi0GMtb93I50+LBinpwPAn9T5M
+NyTyU7mwGUkjKcaE5auVkgQ8wSh1VJSNvEyChctp8OjU4ldY8RWMLS1WWoBSk="
    }
]
}

```

5.4.8 POST /artemis/api/video/v1/cameras/talkURLs

Get streaming URL of two-way audio for the camera.



Supports streaming from cameras on remote sites. For cascaded streaming via two streaming media, only RTSP is supported and EHOMe devices are not supported.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/video/v1/cameras/talkURLs](https://[serverAddress]:[serverPort]/artemis/api/video/v1/cameras/talkURLs)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
domainId	Opt.	Number	Header	Domain ID, which consists of up to 32 characters: 0-LAN, 1-WAN.
cameraIndexCode	Req.	String	Body	Camera ID, which consists of up to 64 characters.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
protocol	Opt.	String	Body	Streaming protocol (application layer protocol) types: "rtsp" (default), "websocket_s". And this field can contain up to 64 characters.
transmode	Opt.	Number	Body	Transfer protocol types: 0-UDP, 1-TCP (default). And this field can contain up to 32 characters.

Request Example

```
{
  "cameraIndexCode": "1",
  "transmode": 1
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Streaming URL information. Refer to UrlInfo for details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "url": "[sms:voicetalk]rtsp://10.41.13.178:554/voicetalk://10.41.7.66:8001:0:0",
  }
}
```

```

"authentication":"Fsd8eugj2+RYG6EKEgN8/EHy6o5XPdkxD8t7Dy+EH6moE4G0X9+60C7PucJ8TlZOJHpXIM0y
+DwPdkSiALHgLmcWShmtWnKnfD5lhfDSMakMUxtlqfqOalXw5AAcSxoz76LkR8qzI8lKncuhXO9RslvYiCOUJN/
b3tmwUH999oWgJbX6jd3mN/p3FPgi4NtkbADKKnmjEY8NI9cPDcHaMfV+oJCYF0aVCjl3BU9AnPY="
}
}

```

5.4.9 POST /artemis/api/video/v1/device/talkURLs

Get streaming URL of two-way audio for the device.



- Call this API for on-board devices.
- Streaming from cameras on remote sites is supported only for first streaming server.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/video/v1/device/talkURLs](https://[serverAddress]:[serverPort]/artemis/api/video/v1/device/talkURLs)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
domainId	Opt.	Number	Header	Domain ID, which consists of up to 32 characters: 0-LAN, 1-WAN.
cameraIndexCode	Req.	String	Body	ID of any one of the cameras linked with the device, consisting of up to 64 characters.
protocol	Opt.	String	Body	Streaming protocol (application layer protocol) types: "rtsp" (default), "websocket_s". And this field can contain up to 64 characters.
transmode	Opt.	Number	Body	Transfer protocol types: 0-UDP, 1-TCP (default). And this field

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				can contain up to 32 characters.

Request Example

```
{
  "cameraIndexCode": "1",
  "transmode": 1
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Streaming URL information. Refer to UrlInfo for details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "url": "[sms:voicetalk]rtsp://10.41.13.178:554/voicetalk://10.41.7.66:8001:0:0",
    "authentication": "Fsd8eugj2+RYG6EKEgN8/EHy6o5XPdkxD8t7Dy+EH6moE4G0X9+60C7PucJ8TlZOJHpXIM0y
+DwPdkSiALHgLmcWShmtWnKnfD5lhfDSMakMUxtlqfqOalXw5AAcSxoz76LkR8qzI8IkncuhXO9RslvYiCOUJN/
b3tmwUH999oWgJbX6jd3mN/p3FPgi4NtkbADKKnmjEY8NI9cPDcHaMfV+oJCYF0aVCjl3BU9AnPY="
  }
}
```

5.4.10 POST /artemis/api/video/v1/patrols/addition

Add a patrol to a camera.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/video/v1/patrols/addition](https://[serverAddress]:[serverPort]/arTEMIS/api/video/v1/patrols/addition)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
cameraIndexCode	Req.	String	Body	Camera ID, which consists of up to 64 characters.
patrolName	Opt.	String	Body	Patrol name, which consists of up to 128 characters.
patrolIndex	Req.	Number	Body	Patrol No., which ranges from 1 to 8. And the No. consists of up to 64 characters.
patrolPointInfoList	Req.	Array	Body	Preset information list of the patrol.
patrolPointInfoList[0]	Req.	Object	Body	Information of a preset in the preset list of the patrol. Refer to <u>PatrolPointInfo</u> for details.

Request Example

```
{
  "cameraIndexCode": "89",
  "patrolIndex": 1,
  "patrolName": "1",
  "patrolPointInfoList": [
    {
      "presetIndex": 1,
      "speed": 1,
      "dwellTime": 15
    }
  ]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	/	Set it to null.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

5.4.11 POST /artemis/api/video/v1/patrols/deletion

Delete a patrol of a camera.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/video/v1/patrols/deletion](https://[serverAddress]:[serverPort]/arTEMIS/api/video/v1/patrols/deletion)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
cameraIndexCode	Req.	String	Body	Camera ID, which consists of up to 64 characters.
patrolIndex	Req.	Number	Body	Patrol No., which ranges from 1 to 8. And the No. consists of up to 64 characters.

Request Example

```
{
  "cameraIndexCode": "89",
  "patrolIndex":1
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	/	Set it to null.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

5.4.12 POST /artemis/api/video/v1/patrols/patrolIndex/patrolInfo

Get the patrol information of a camera by patrol No.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/video/v1/patrols/patrolIndex/patrolInfo](https://[serverAddress]:[serverPort]/arTEMIS/api/video/v1/patrols/patrolIndex/patrolInfo)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
cameraIndexCode	Req.	String	Body	Camera ID, which consists of up to 64 characters.
patrolIndex	Req.	Number	Body	Patrol No., which consists of up to 64 characters.

Request Example

```
{
  "cameraIndexCode": "89",
  "patrolIndex": 1
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for

Parameter	Req. or Opt.	Data Type	Description
			details. Each description can contain up to 256 characters.
data	Opt.	Object	Patrol information. See details in PatrollInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "patrollIndex": 1,
    "patrolName": "1"
  }
}
```

5.4.13 POST /artemis/api/video/v1/patrols/searches

Search for the patrol information of a camera.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/video/v1/patrols/searches](https://[serverAddress]:[serverPort]/artemis/api/video/v1/patrols/searches)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
cameraIndexCode	Req.	String	Body	Camera ID, which consists of up to 64 characters.

Request Example

```
{
  "cameraIndexCode": "89"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
list	Opt.	Array	Patrol information list.
list[0]	Opt.	Object	Information of a patrol in the list. Refer to PatrolInfo for details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 1,
    "list": [
      {
        "patrolName": "1",
        "patrolIndex": 1
      }
    ]
  }
}
```

5.4.14 POST /artemis/api/video/v1/presets/addition

Add a preset to a camera.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/video/v1/presets/addition](https://[serverAddress]:[serverPort]/artemis/api/video/v1/presets/addition)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
cameraIndexCode	Req.	String	Body	Camera ID, which consists of up to 64 characters.
presetName	Req.	String	Body	Preset name, which can be duplicated. And it consists up of up to 128 characters.
presetIndex	Req.	Number	Body	Preset No., which ranges from 1 to 256. And the No. consists of up to 64 characters.

Request Example

```
{
  "cameraIndexCode": "89"
  "presetName": "2",
  "presetIndex": 2
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.		Set it to null.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

5.4.15 POST /artemis/api/video/v1/presets/deletion

Delete a preset of a camera.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/video/v1/presets/deletion](https://[serverAddress]:[serverPort]/artemis/api/video/v1/presets/deletion)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
cameraIndexCode	Req.	String	Body	Camera ID, which consists of up to 64 characters.
presetIndex	Req.	Number	Body	Preset No., which ranges from 1 to 256. And each No. consists of up to 64 characters.

Request Example

```
{
  "cameraIndexCode": "89",
  "presetIndex": 1
}
```

Response Parameters

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

Parameter	Req. or Opt.	Data Type	Description
			to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	/	Set it to null.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

5.4.16 POST /artemis/api/video/v1/presets/searches

Search for the preset information of a camera.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/video/v1/presets/searches](https://[serverAddress]:[serverPort]/artemis/api/video/v1/presets/searches)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
cameraIndexCode	Req.	String	Body	Camera ID, which consists of up to 64 characters.

Request Example

```
{
  "cameraIndexCode": "89"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
list	Opt.	Array	Preset information list.
list[0]	Opt.	Object	Information of a preset in the list. Refer to PresetInfo for details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 1,
    "list": [
      {
        "presetName": "1",
        "presetIndex": 1
      }
    ]
  }
}
```

5.4.17 POST /artemis/api/video/v1/ptzs/controlling

Control the PTZ after starting live view.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/video/v1/ptzs/controlling](https://[serverAddress]:[serverPort]/artemis/api/video/v1/ptzs/controlling)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? < >
cameraIndexCode	Req.	String	Body	Camera ID, which consists of up to 64 characters.
action	Req.	Number	Body	Start or stop control: 0-start, 1-stop.
command	Req.	String	Body	PTZ control commands (case insensitive): "LEFT" (pan left), "RIGHT" (pan right), "UP" (tilt up), "DOWN" (tilt down), "ZOOM_IN" (zoom in), "ZOOM_OUT" (zoom out), "LEFT_UP" (pan left and tilt up), "LEFT_DOWN" (pan left and tilt down), "RIGHT_UP" (pan right and tilt up), "RIGHT_DOWN" (pan right and tilt down), "FOCUS_NEAR" (focus +), "FOCUS_FAR" (focus -), "IRIS_ENLARGE" (iris +), "IRIS_REDUCE" (iris -), "GOTO_PRESET" (call preset), and "RUN_PATROL" (call patrol). The field can contain up to 16 characters.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
speed	Opt.	Number	Body	<p>PTZ control speed, which ranges from 20 and 60, and the default speed is 40.</p> <p> Note</p> <p>This field is Opt. only when the control commands are "GOTO_PRESET" and "RUN_PATROL". For other commands, this field is Req..</p>
presetIndex	Opt.	Number	Body	<p>Preset No., which ranges from 1 to 256.</p> <p> Note</p> <p>This field is Req. when the control command is "GOTO_PRESET".</p>
patrollIndex	Opt.	Number	Body	<p>Patrol No., which ranges from 1 to 8.</p> <p> Note</p> <p>This field is Req. when the control command is "RUN_PATROL".</p>

Request Example

```
{
  "cameraIndexCode": "89",
  "command": "GOTO_PRESET",
  "presetIndex": 1,
  "action": 0,
  "speed": 40,
  "PatrollIndex": 1
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	/	Set it to null.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

5.4.18 POST /artemis/api/video/v1/camera/capture

Capture real-time pictures via camera. The resolution is determined by the device environment. For devices accessed via EHOME protocol, picture capture depends on the device capability and if the picture storage has been enabled and configured.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/video/v1/camera/capture](https://[serverAddress]:[serverPort]/artemis/api/video/v1/camera/capture)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
cameraIndexCode	Req.	String	Body	Camera ID, which consists of up to 1024 characters.

Request Example

```
{
  "cameraIndexCode": "1"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	String	Returned picture information encoded by Base64.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/
2wBDAAYEBAUEBAYFBQUHBgYHCRAKCQgICRMOdgsQFxQYGBYUFhYZHCQfGRsiGxYWICsgliYnKSkpGB4tMCwoMCQoKSf
/2wBDAQYHBwkICRIKChInGhYaJycnJycnJycnJycnJycnJycnJycnJycnJy"
}
```

5.4.19 POST /artemis/api/video/v1/download

Download recordings by obtained playback URL, authentication information, start and end time, and video format.



The length of the recording should not exceed one minute.

Request URL

`https://[serverAddress]:[serverPort]/arTEMIS/api/video/v1/download`

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
url	Req.	String	Body	Playback URL, obtained via <i>POST /arTEMIS/api/video/v1/cameras/playbackURLS</i> .
authentication	Req.	String	Body	Authentication information for streaming, obtained via <i>POST /arTEMIS/api/video/v1/cameras/playbackURLS</i> .
beginTime	Req.	String	Body	Start time of the recording, in ISO 8601 format, which is represented by "yyyy-MMddTHH:mm:ss+current time zone", e.g., "2018-07-26T15:00:00 + 08:00". The maximum length is 64.
endTime	Req.	String	Body	End time of the recording, in ISO 8601 format, which is represented by "yyyy-MMddTHH:mm:ss+current time zone", e.g., "2018-07-

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				26T15:00:00 + 08:00". The maximum length is 64.
videoType	Opt.	Number	Body	Video format: 0-AVI (default), 1-MP4.

Request Example

```
{
  "url": "rtsp://10.18.66.12:554/sms/Eurl/commonvideobiz_yL3BB0IJEfmxZqcbVjpen
%2BT1uYbybvT38kqzRR6XaakK2GcRosSrW4A9o%2FFtIeHzaYm3O%2Fmn
%2FWOZwbNhwk9eTw1oi8YFyIY5tLp5CJu7RnoINpei1W22NqnwyDt
%2FcNLNZEEnXoejzLazu9A0oXWVwxjsV99%2FtZXqJx8K7601%2BywBbErC80PzfVyFWd5HKmEz8NVdNCVT2fqokL8868ffQ
i8uMYNLXYSEOFEsqunLs%3D",
  "authentication": "Fsd8eugj2+RYG6EKEgN8/EHy6o5XPdkxD8t7Dy
+EH6moE4G0X9+60C7PucJ8TlZOdGIK3IH5W7JDFrerclsiJb1bl9Y52PGA/K/QXIff+84XMQ=",
  "beginTime": "2022-09-07T19:38:16+08:00",
  "endTime": "2022-09-07T19:38:16+08:00",
  "videoType": 1
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	PageInfo	Download information structure.

Table 5-4 PageInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
downloadID	Req.	String	Download ID (valid for 10 minutes). Get download progress and download URL by the download ID. The maximum length is 32.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "downloadID": "F704686D84CD4E34A2181A915862FE3F"
  }
}
```

5.4.20 POST /artemis/api/video/v1/downloadURL

Get download progress and download URL by the download ID.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/video/v1/downloadURL](https://[serverAddress]:[serverPort]/arTEMIS/api/video/v1/downloadURL)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like ' / \ : * ? " < >
downloadID	Req.	String	Body	Obtained from POST /arTEMIS/api/video/v1/download . The maximum length is 32.

Request Example

```
{
  "downloadID": "1"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	PageInfo	Download information structure.

Table 5-5 PageInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
percent	Req.	String	Download progress (unit: %). The maximum length is 32.
url	Opt.	String	Download URL.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "percent": "1",
    "url": "http://10.18.66.12/download/20221017204905_F704686D84CD4E34A2181A915862FE3F.avi"
  }
}
```

5.4.21 POST /artemis/api/video/v1/event/searchLabels

Get the tags of the person/vehicle-detected videos recorded by cameras.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/video/v1/event/searchLabels](https://[serverAddress]:[serverPort]/artemis/api/video/v1/event/searchLabels)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No. The maximum length is 32.
pageSize	Req.	Number	Body	Number of records on each page. The maximum length is 32.
cameraIndexCode	Req.	String	Body	Camera ID, which consists of up to 64 characters.
startTime	Req.	String	Body	Start time of search, which is in ISO 8601 standard time format: yyyy-MMdd'T'HH:mm:ss.SSSzzz, e.g., 2018-07-26T15:00:00 + 08:00. And the time consists of up to 64 characters.
endTime	Req.	String	Body	End time of search, which is in ISO 8601 standard time format: yyyy-MMdd'T'HH:mm:ss.SSSzzz, e.g., 2018-07-26T15:00:00 + 08:00. And the time consists of up to 64 characters.
eventLabel	Req.	Enum	Body	1 (person/vehicle-detection tag), 2 (person-detection tag), 4 (vehicle-detection tag).

Request Example

```
{
  "pageNo": 1,
```

```

"pageSize": 2,
"cameraIndexCode": "1",
"startTime": "2022-08-06T09:58:39+08:00",
"endTime": "2022-08-06T09:58:39+08:00",
"eventLabel": 1
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	PageInfo	Structure for getting the tag.

Table 5-6 PageInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
totalNum	Req.	Number	Number of tags. The maximum length is 32.
pageNo	Req.	Number	The current page No. The maximum length is 32.
pageSize	Req.	Number	Number of records on each page. The maximum length is 32.
labelList	Opt.	labelListInfo[]	Get the list of event tags. See details in eventLabelList .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "totalNum": 8,
    "pageNo": 1,
    "labelList": [
      {
        "label": "Event A"
      },
      ...
    ]
  }
}
```

```

"pageSize": 100,
"labelList": [
    "labelCode": "35",
    "labelEvent": 2,
    "startTime": "2022-10-20T15:56:13+08:00",
    "endTime": "2022-10-20T15:56:23+08:00"
]
}
}

```

5.4.22 POST /artemis/api/body/v1/application/pictureRecognition

Detect the human body in the picture encoded by Base64 and get the coordinates of the body in the picture, which is the first part of search for matched human bodies on Intelligent Fusion Server and DeepinMind NVR. DeepinMind NVR accessed via ISUP supports configuring picture storage to the local PC, CVR, or pStor storage. Supports pictures in JPG and JPEG format, but not in PNG format; pictures in BMP format is supported by the DeepinMind Series NVR but not supported by the Intelligent Fusion Server.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/body/v1/application/pictureRecognition](https://[serverAddress]:[serverPort]/artemis/api/body/v1/application/pictureRecognition)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? < >
protocolType	Req.	Number	Body	Device type to be accessed: 0-Intelligent Fusion Server (by default; when this field is not configured), 1-DeepinMind NVR.
intelligentServerIndexCode	Opt.	String	Body	ID for Intelligent Fusion Server on the HikCentral Professional platform. The maximum length is 32.
encodeDeviceIndexCode	Opt.	String	Body	DeepinMind NVR device ID on the HikCentral Professional

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				platform. This field is required and valid when protocolType is 1.
pictureData	Req.	String	Body	Picture data encoded by Base64.

Request Example

```
{
  "protocolType": 1,
  "intelligentServerIndexCode": "3",
  "encodeDeviceIndexCode": "1",
  "pictureData": "base64"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	PageInfo	Response data.

Table 5-7 PageInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
Rect	Opt.	bodyRecord[]	List of detected human body information. See details in bodyRect .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "Rect": [
      {
        "height": "0.81",
        "width": "0.15",
        "x": "0.12",
        "y": "0.21"
      }
    ]
  }
}
```

5.4.23 POST /artemis/api/body/v1/application/pictureModel

Model human body in the picture encoded by Base64 and get the modeling data, which is the second part of search for matched human bodies on Intelligent Fusion Server and DeepinMind NVR. DeepinMind NVR accessed via ISUP supports configuring picture storage to the local PC, CVR, or pStor storage.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/body/v1/application/pictureModel](https://[serverAddress]:[serverPort]/artemis/api/body/v1/application/pictureModel)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
protocolType	Req.	Number	Body	Device type to be accessed: 0-Intelligent Fusion Server (by default; when this field is not configured), 1-DeepinMind NVR.
intelligentServerIndexCode	Opt.	String	Body	ID for Intelligent Fusion Server on the HikCentral Professional

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				platform. The maximum length is 32.
encodeDeviceIndexCode	Opt.	String	Body	DeepinMind NVR device ID on the HikCentral Professional platform. This field is required and valid when protocolType is 1.
pictureData	Req.	String	Body	Picture data encoded by Base64.
data	Req.	Object	Body	Detected human body information.

Table 5-8 PageInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
bodyRect	Req.	Object	Normalized x-coordinate from the upper-left corner to the right and y-coordinate from the upper-left corner to the downward. Range of value: [0.000, 1.000].
height	Req.	String	Height of detected human body in the picture, normalized to [0.000, 1.000].
width	Req.	String	Width of detected human body in the picture, normalized to [0.000, 1.000].
x	Req.	String	Normalized x-coordinate from the upper-left corner to the right. Range of value: [0.000, 1.000].
y	Req.	String	Normalized y-coordinate from the upper-left corner to the downward. Range of value: [0.000, 1.000].

Request Example

```
{
  "protocolType": 1,
  "intelligentServerIndexCode": "1",
  "encodeDeviceIndexCode": "1",
```

```

"pictureData": "test",
"data": {
    "Rect": {
        "height": "0.81",
        "width": "0.15",
        "x": "0.21",
        "y": "0.12"
    }
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data.

Table 5-9 PageInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
ModelData	Opt.	String	Human body modeling data.

Response Example

```

{
    "code": "0",
    "msg": "Success",
    "data": {
        "ModelData": "test"
    }
}

```

5.4.24 POST /artemis/api/body/v1/application/captureSearch

Get matched human bodies in a specified time period by a specified camera by body picture comparison according to the human body modeling data, which is the third part of search for matched human bodies on Intelligent Fusion Server and DeepinMind NVR. DeepinMind NVR accessed via ISUP supports configuring picture storage to the local PC, CVR, or pStor storage.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/body/v1/application/captureSearch](https://[serverAddress]:[serverPort]/artemis/api/body/v1/application/captureSearch)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? < >
protocolType	Req.	Number	Body	Device type to be accessed: 0-Intelligent Fusion Server (by default; when this field is not configured), 1-DeepinMind NVR.
intelligentServerIndexCode	Opt.	String	Body	ID of Intelligent Fusion Server on the HikCentral Professional platform. The maximum length is 32.
encodeDeviceIndexCode	Opt.	String	Body	DeepinMind NVR device ID on the HikCentral Professional platform. This field is required and valid when protocolType is 1.
cameraIndexCodes	Req.	String	Body	ID of camera under Intelligent Fusion Server or NVR, and the maximum length is 32. Multiple IDs are separated by comma and up to 10 IDs are allowed.
modeldata	Req.	String	Body	Human body modeling data.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
startTime	Req.	String	Body	Start time of search, which is in ISO 8601 standard time format: yyyy-MMdd'T'HH:mm:ss.SSSzzz, e.g., 2018-07-26T15:00:00 + 08:00. And the time consists of up to 64 characters.
endTime	Req.	String	Body	End time of search, which is in ISO 8601 standard time format: yyyy-MMdd'T'HH:mm:ss.SSSzzz, e.g., 2018-07-26T15:00:00 + 08:00. And the time consists of up to 64 characters.
similarity	Req.	String	Body	Similarity of the searched pictures. The maximum length is 32.
sortType	Req.	String	Body	Sort type of search results: sort by time or sort by similarity. The maximum length is 64.
maxResults	Req.	Number	Body	Max. number of search results.
searchResultPosition	Opt.	Number	Body	The start position of the search result in the result list.
modelMaxNum	Opt.	Number	Body	Max. number of returned models. The max number is 100.

Request Example

```
{
  "protocolType": 1,
  "intelligentServerIndexCode": "1",
  "encodeDeviceIndexCode": "1",
  "cameraIndexCodes": "1,2,3",
  "modelData": "test",
  "startTime": "2022-08-13T17:30:08+08:00",
  "endTime": "2022-08-13T17:30:08+08:00",
  "similarity": "0.89",
  "sortType": "time",
```

```

    "maxResults": 100,
    "searchResultPosition": 0,
    "modelMaxNum": 100
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	PageInfo	Response data.

Table 5-10 PageInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
totalNum	Req.	Number	Number of matched human bodies.
targetInfo	Opt.	targetInfo []	Searched human body information. See details in bodyTargetInfo .

Response Example

```

{
  "data": {
    "totalNum": 1,
    "targetInfo": [
      {
        "monitorPointIndexCode": "1",
        "captureTime": "2022-05-03T17:30:08+08:00",
        "cameraIndexCode": "1",
        "similarity": "0.89",
        "picUrl": "test",
        "subPicUrl": "test",
        "targetRect": {
          "height": "0.89",
          "width": "0.2",
          "x": "0.15",
        }
      }
    ]
  }
}

```

```

        "y": "0.21"
    },
    "gender": 0,
    "bag": 0,
    "jacketType": 0,
    "trousersType": 0,
    "ageGroup": 0,
    "hairStyle": 0,
    "jacketColor": 0,
    "trousersColor": 0,
    "things": 0,
    "mask": 0
}
]
}
}

```

5.4.25 POST /artemis/api/frs/v1/application/pictureRecognitionModel

Detect and model faces in the picture encoded by Base64 and get the modeling data, which is the first part of search for matched faces on Intelligent Fusion Server and DeepinMind NVR. Multiple faces in the picture can be detected and the modeling data for different faces can be identified by the corresponding recognized coordinates. DeepinMind NVR accessed via ISUP supports configuring picture storage to the local PC, CVR, or pStor storage. Supports pictures in JPG and JPEG format, but not in PNG format; pictures in BMP format is supported by the DeepinMind Series NVR but not supported by the Intelligent Fusion Server.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/frs/v1/application/pictureRecognitionModel](https://[serverAddress]:[serverPort]/artemis/api/frs/v1/application/pictureRecognitionModel)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? < >
protocolType	Req.	Number	Body	Device type to be accessed: 0-Intelligent Fusion Server (by default; when this field is not configured), 1-DeepinMind NVR.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
intelligentServerIndexCode	Opt.	String	Body	ID for Intelligent Fusion Server on the HikCentral Professional platform. The maximum length is 32.
encodeDeviceIndexCode	Opt.	String	Body	DeepinMind NVR device ID on the HikCentral Professional platform. This field is required and valid when protocolType is 1.
pictureData	Req.	String	Body	Picture data encoded by Base64.

Request Example

```
{
  "protocolType": 1,
  "intelligentServerIndexCode": "3",
  "encodeDeviceIndexCode": "1",
  "pictureData": "base64"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	PageInfo	Response data.

Table 5-11 PageInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
targets	Req.	faceTargets[]	Face modeling data. See details in faceTargets .

Response Example

```
{
  "code": "0",
  "msg": "success",
  "data": {
    "targets": [
      {
        "targetModelData": "test",
        "faceRect": {
          "height": "0.89",
          "width": "0.15",
          "x": "0.12",
          "y": "0.21"
        }
      }
    ]
  }
}
```

5.4.26 POST /artemis/api/frs/v1/application/captureSearch

Get matched faces in a specified time period by a specified camera by face picture comparison according to the face modeling data, which is the second part of search for matched faces on Intelligent Fusion Server and DeepinMind NVR. DeepinMind NVR accessed via ISUP supports configuring picture storage to the local PC, CVR, or pStor storage.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/frs/v1/application/captureSearch](https://[serverAddress]:[serverPort]/artemis/api/frs/v1/application/captureSearch)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
protocolType	Req.	Number	Body	Device type to be accessed: 0-Intelligent Fusion Server (by default; when this field is not configured), 1-DeepinMind NVR.
intelligentServerIndexCode	Opt.	String	Body	ID for Intelligent Fusion Server on the HikCentral Professional platform. The maximum length is 32.
encodeDeviceIndexCode	Opt.	String	Body	DeepinMind NVR device ID on the HikCentral Professional platform. This field is required and valid when protocolType is 1.
cameraIndexCodes	Req.	String	Body	ID of camera under Intelligent Fusion Server or NVR. The maximum length is 32. Multiple IDs are separated by comma and up to 10 IDs are allowed.
targetModelData	Req.	String	Body	Face modeling data.
maxResults	Req.	Number	Body	Max. number of search results.
startTime	Req.	String	Body	Start time of search, which is in ISO 8601 standard time format: yyyy-MMdd'T'HH:mm:ss.SSSzzz, e.g., 2018-07-26T15:00:00 + 08:00. And the time consists of up to 64 characters.
endTime	Req.	String	Body	End time of search, which is in ISO 8601 standard time format: yyyy-MMdd'T'HH:mm:ss.SSSzzz, e.g., 2018-07-

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				26T15:00:00 + 08:00. And the time consists of up to 64 characters.
similarityMin	Req.	Number	Body	Min. similarity of the searched pictures.
similarityMax	Req.	Number	Body	Max. similarity of the searched pictures.
sortType	Req.	String	Body	Sort type of search results: sort by time or sort by similarity. The maximum length is 64.
searchResultPosition	Opt.	Number	Body	The start position of the search result in the result list.
modelMaxNum	Opt.	Number	Body	Max. number of returned models. The max number is 100.

Request Example

```
{
  "intelligentServerIndexCode": "3",
  "cameraIndexCodes": "1,2,3",
  "targetModelData": "test",
  "maxResults": 100,
  "startTime": "2022-08-15T17:30:08+08:00",
  "endTime": "2022-08-18T17:30:08+08:00",
  "similarityMin": "0.01",
  "similarityMax": "0.98",
  "sortType": "time",
  "searchResultPosition": 0,
  "modelMaxNum": 100
}
```

Response Parameters

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

Parameter	Req. or Opt.	Data Type	Description
			Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to <u>Status or Error Code</u> for details. Each description can contain up to 256 characters.
data	Opt.	PageInfo	Response data.

Table 5-12 PageInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
totalNum	Req.	Number	Number of match results from face picture comparison.
targets	Opt.	targetInfo []	Information of matched faces. See details in <u>faceTargetInfo</u> .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "totalNum": 1,
    "targets": [
      {
        "code": 1,
        "captureTime": "2022-05-03T17:30:08+08:00",
        "monitorPointIndexCode": "1",
        "picUrl": "test",
        "subpicUrl": "test",
        "similarity": 1,
        "faceRect": {
          "height": "0.8",
          "width": "0.3",
          "x": "0.21",
          "y": "0.12"
        },
        "currTemperature": "36.7",
        "thermometryUnit": 0,
        "mask": 1,
        "gender": 1,
        "glasses": 1,
        "smile": 1,
      }
    ]
  }
}
```

```

        "ageGroup": 1
    }
]
}
}
```

5.4.27 POST /artemis/api/video/v1/intelligentRecognition/tasks

Get the list of created intelligent recognition tasks.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/video/v1/intelligentRecognition/tasks](https://[serverAddress]:[serverPort]/artemis/api/video/v1/intelligentRecognition/tasks)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
pageNo	Req.	Number	Header	The current page No., [1, 2147483647].
pageSize	Req.	Number	Body	Number of records on each page, [1,100].
taskType	Req.	Number	Body	Intelligent analysis task type: 1-face picture comparison, 2-human body.
analyzeDeviceType	Opt.	Number	Body	Analysis device type: 2-NVR, 3-Intelligent Fusion Server.

Request Example

```
{
    "pageNo": 1,
    "pageSize": 100,
    "taskType": 1,
    "analyzeDeviceType": 3
}
```

Response Parameters

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

Parameter	Req. or Opt.	Data Type	Description
			to <u>Status or Error Code</u> for details). Each code can contain up to 32 characters.
msg	Opt.	String	Status or error description, which is in one-to-one correspondence with the code, refer to <u>Status or Error Code</u> for details. Each description can contain up to 256 characters.
data	Opt.	PageInfo	Response data details.

Table 5-13 PageInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
total	Req.	Number	Number of search results.
pageNo	Req.	Number	The current page No.
pageSize	Req.	Number	Number of records on each page.
list	Opt.	AnalyzeTask	Object list.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 0,
    "pageNo": 0,
    "pageSize": 0,
    "list": [
      {
        "taskID": "",
        "taskName": "",
        "taskType": 0,
        "analyzeDeviceList": [
          {
            "analyzeDeviceID": "",
            "analyzeDeviceName": "",
            "analyzeDeviceType": 1
            "analyzeCameraList": [
              {
                "analyzeCameraID": "",
                "analyzeCameraName": "",
                "analyzeCameraStatus": 0
              }
            ]
          }
        ]
      }
    ]
  }
}
```

```

        }
    ]
},
"faceMatchGroupList": [
{
    "faceMatchGroupID": "",
    "faceMatchGroupName": "",
    "faceMatchGroupStatus": 0
}
]
}
}
}
}
```

5.4.28 POST /artemis/api/frs/v1/application/oneToOne

Compare face pictures in one versus one mode.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/frs/v1/application/oneToOne](https://[serverAddress]:[serverPort]/artemis/api/frs/v1/application/oneToOne)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
intelligentServerIndexCode	Req.	String	Header	Intelligent fusion server ID. The maximum length is 64.
targetModelData	Req.	String	Body	Target model data.
contrastModelData	Req.	String	Body	Comparison target model data.

Request Example

```
{
    "intelligentServerIndexCode": "1",
    "targetModelData": "test",
    "contrastModelData": "test"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Opt.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Opt.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Similarity information.
similarity	Opt.	String	The similarity between 2 face pictures. The value ranges from 0 to 1.

Response Example

```
{
  "code": "0",
  "msg": "success",
  "data": {
    "similarity": "0"
  }
}
```

5.4.29 POST /artemis/api/frs/v1/application/oneToMany

Verify identity in one versus multiple mode.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/frs/v1/application/oneToMany](https://[serverAddress]:[serverPort]/artemis/api/frs/v1/application/oneToMany)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
minSimilarity	Req.	String	Header	Min. similarity to be specified for search, which ranges from 0 to 1.
facePicModelData	Req.	String	Body	Face modeling data, which is obtained via API <i>/api/frs/v1/application/pictureRecognitionModel</i>
faceGroupIndexCodes	Req.	String	Body	Face picture library ID(s) to be specified for search. Multiple items are separated by comma. Up to 16 groups are allowed for each search.  Note The face picture libraries should be configured for face picture comparison analysis tasks using the Intelligent Fusion Server.

Request Example

```
{
  "minSimilarity": "0.5",
  "facePicModelData": "dfhgsrtASgfd",
  "faceGroupIndexCodes": "1,2"
}
```

Response Parameters

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

Parameter	Req. or Opt.	Data Type	Description
			<u>Code</u> for details). Each code can contain up to 32 characters.
msg	Opt.	String	Status or error description, which is in one-to-one correspondence with the code, refer to <u>Status or Error Code</u> for details. Each description can contain up to 256 characters.
data	Opt.	Object	PageInfo object.

Table 5-14 PageInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
total	Opt.	Number	Total number of search results.
list	Opt.	<u>IdentityFace</u> []	The results of identity verification in one versus multiple mode.

Response Example

```
{
  "code": "0",
  "msg": "success",
  "data": {
    "total": 0,
    "list": [
      {
        "similarity": "0.9",
        "faceGroupIndexCode": "1",
        "faceInfo": {
          "indexCode": "1",
          "personGivenName": "alan",
          "personFamilyName": "liu",
          "sex": 0.1,
          "facePic": {
            "faceUrl": "dfhertheasW"
          }
        }
      }
    ]
  }
}
```

5.5 Alarm and Event API

Here provides APIs for event and alarm search, getting event and alarm picture, alarm acknowledgment, event subscription, generic event rule management, and so on.

5.5.1 POST /artemis/api/eventService/v1/eventRecords/controlling

Acknowledge the alarm.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/eventService/v1/eventRecords/controlling](https://[serverAddress]:[serverPort]/arTEMIS/api/eventService/v1/eventRecords/controlling)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
eventIndexCode	Req.	String	Body	Event ID, which consists of up to 64 characters.
controlType	Req.	Number	Body	Operation type: 1-acknowledge alarm

Request Example

```
{
  "eventIndexCodes": "1f276203e5234bdca08f7d99e1097bba",
  "controlType": 1
}
```

Response Parameters

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

Parameter	Req. or Opt.	Data Type	Description
			Each code contains up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to <u>Status or Error Code</u> for details. Each description contains up to 256 characters.
data	Opt.	String	No data returned.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

5.5.2 POST /artemis/api/eventService/v1/eventRecords/page

Set search conditions (e.g., event ID, event source, event type, etc.) to search for alarm or event details, and the search results will be returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/eventService/v1/eventRecords/page](https://[serverAddress]:[serverPort]/arTEMIS/api/eventService/v1/eventRecords/page)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
eventIndexCode	Opt.	String	Body	Event ID, which consists of up to 64 characters. If this field is not configured, the eventTypes , srcType , or

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				srcIndexes fields must be configured.
eventTypes	Req.	String	Body	Event type, which can be separated by comma if there are multiple types, refer to <u>Event Types or Alarm Categories</u> for details. And the field can contain up to 1024 characters.
srcType	Req.	String	Body	Event source type: "acsDevice" (access controller), "door" (access point), "encodeDevice" (encoding device), "camera", "ioIn" (alarm input), "generalEventRule" (general event). And the field can contain up to 64 characters. Refer to <u>Event Types or Alarm Categories</u> for details.
srcIndexes	Req.	String	Body	Event source No., which can be separated by command if there are multiple No.s. And the No. consists of up to 1024 characters.
subSrcType	Opt.	String	Body	Event source type. Available for license plate matched or mismatched event search. The maximum length is 64 bytes. Refer to <u>Event Types or Alarm Categories</u> for details.
subSrcIndexes	Opt.	String	Body	Event source No., which is available for license plate matched or mismatched event search. The vehicle group ID is returned. Each two No. should be separated by comma. The maximum length is 1024 bytes.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
startTime	Req.	String	Body	Start time of search, which is in ISO 8601 standard time format: yyyy-MM-ddTHH:mm:ss +current zone, e.g., 2018-07-26T15:00:00+08:00. And the time contains up to 64 characters.
endTime	Req.	String	Body	End time of search, which is in ISO 8601 standard time format: yyyy-MM-ddTHH:mm:ss +current zone, e.g., 2018-07-26T15:00:00+08:00. And the time contains up to 64 characters.
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
sortField	Opt.	String	Body	Sort by the triggering time ("TriggeringTime").
orderType	Opt.	Number	Body	Order type. 0 (in ascending order); 1 (default, in descending order).



The days between start time and end time should be no more than 31 days.

Request Example

```
{
  "eventIndexCode": "1",
  "eventTypes": "131329,131330,131331",
  "srcType": "camera",
  "srcIndexes": "1,2",
  "startTime": "2019-08-26T15:00:00+08:00",
  "endTime": "2019-09-26T16:00:00+08:00",
  "pageNo": 1,
  "pageSize": 100,
```

```

"subSrcType": "LPRVehicleList",
"subSrcIndexs": "1,2,3,4",
"sortField": "TriggeringTime",
"orderType": 1
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Event record list.
list[0]	Opt.	Object	Information of an event record in the list. See details in EventRecord .

Response Example

```

{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 1,
    "pageNo": 1,
    "pageSize": 15,
    "list": [
      {
        "eventIndexCode": "12321432154316547",
        "eventType": "131329",
        "srcType": "camera",
        "srcIndex": "1",
        "description": "abc",
        ...
      }
    ]
  }
}

```

```
"startTime": "2018-07-26T15:00:00+08:00",
"stopTime": "2018-07-26T16:00:00+08:00",
"eventPicUri": "0B4E92A30AF914C1285613A4FBD9F761F",
"linkCameralIndexCode": "2"
"vehicleBrand": 5,
"vehicleType": 2,
"vehicleColor": 3,
"country": 5,
"vehicleDirectionType": 1,
"ownerName": "alan liu",
"contact": "6879095",
"vehicleSpeed": 50
}
]
}
}
```

5.5.3 POST /artemis/api/eventService/v1/eventSubscriptionByEventTypes

Subscribe to events by event type. Repeated subscriptions from the same user will be automatically deduplicated by the API; when errors occur within the OpenAPI service, the event will be subscribed again for the partner after the restart of the OpenAPI service. Event subscription is available for alarm event, on-board monitoring, face picture match, access control card swiping, and ANPR.



After the event callback is enabled, there might be exceptions in 3 circumstances.

- OpenAPI exception: Restart the OpenAPI service and the event records during the exception period will be pushed from the HikCentral Professional platform to the partner again.
- Third party service or network exception: The pushed events (max. number: 500) will be cached by OpenAPI for 1 day at most.
- HikCentral Professional exception: Pushing events is not supported.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/eventService/v1/eventSubscriptionByEventTypes](https://[serverAddress]:[serverPort]/arTEMIS/api/eventService/v1/eventSubscriptionByEventTypes)

Request URL

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
eventTypes	Req.	Number	Body	Event type code, which is a decimal integer, refer to Event Types or Alarm Categories for details. Up to 256 types are supported, whose codes are between 100000 and 2147483647.
eventDest	Req.	String	Body	<p>Address to receive event information, which consists of up to 1024 characters. The address adopts RESTful callback mode, and supports HTTP and HTTPS, its format is "http://ip:port/eventRcv" or "https://ip:port/eventRcv".</p> <p> Note</p> <p>Refer to Event Message Format for the event details received in the address.</p>
token	Opt.	String	Body	Enter this parameter for event subscription. For subsequent event/alarm push, the HTTP header of messages will contain this token for verification.
passBack	Opt.	Number	Body	Whether to enable event callback: 0-no (by default), 1-yes.

Request Example

```
{  
    "eventTypes": [131329, 131330, 131331],  
    "eventDest": "https://10.18.66.21:8080/eventRcv",  
    "token": "anything"  
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code contains up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description contains up to 256 characters.

Response Example

```
{  
    "code": 0,  
    "msg": "Success"  
}
```

5.5.4 POST /artemis/api/eventService/v1/eventSubscriptionView

Search for event subscription details by user.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/eventService/v1/eventSubscriptionView](https://[serverAddress]:[serverPort]/artemis/api/eventService/v1/eventSubscriptionView)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >

Request Example

```
uri : /api/eventService/v1/eventSubscriptionView
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code contains up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description contains up to 256 characters.
data	Opt.	Detail	Response data details.

Table 5-15 Detail Object Description

Parameter	Req. or Opt.	Data Type	Description
detail	Req.	SubscriptionInfo[]	Details of a subscribed event. Refer to SubscriptionInfo for details.

Response Example

```
{
  "code": 0,
  "msg": "Success",
  "data": {
    "detail":
```

```

        [
        {
            "eventTypes": [131329, 131330, 131331],
            "eventDest": "https://10.18.66.21:8080 /eventRcv",
            "passBack": 0
        }
    ]
}

```

5.5.5 POST /artemis/api/eventService/v1/eventUnSubscriptionByEventTypes

Cancel subscribing events by event type.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/eventService/v1/
eventUnSubscriptionByEventTypes](https://[serverAddress]:[serverPort]/arTEMIS/api/eventService/v1/eventUnSubscriptionByEventTypes)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
eventTypes	Req.	Number	Body	Event type code, which is a decimal integer, refer to Event Types or Alarm Categories for details. Up to 256 types are supported, whose codes are between 100000 and 2147483647.

Request Example

```
{
    "eventTypes": [131329, 131330, 131331]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code contains up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description contains up to 256 characters.

Response Example

```
{
  "code": 0,
  "msg": "Success",
}
```

5.5.6 POST /artemis/api/eventService/v1/generalEventRule/generalEventRuleList

Get the information list of generic events.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/eventService/v1/generalEventRule/generalEventRuleList](https://[serverAddress]:[serverPort]/artemis/api/eventService/v1/generalEventRule/generalEventRuleList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483648.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 1
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.

Parameter	Req. or Opt.	Data Type	Description
list	Opt.	Array	Information list of generic events.
list[0]	Opt.	Object	Information about a specific generic event. See details in <i>GeneralEventRule</i> .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 3,
    "pageNo": 1,
    "pageSize": 1,
    "list": [
      {
        "generalEventRuleIndexCode": "1",
        "generalEventRuleName": "1",
        "transportType": 0,
        "matchType": 0,
        "expression": "\"1\" AND \"1\"",
        "regularExpression": "(1.*1|1.*1)"
      }
    ]
  }
}
```

5.5.7 POST /artemis/api/eventService/v1/generalEventRule/single/add

Customize the expression to add a generic event.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/eventService/v1/generalEventRule/single/add](https://[serverAddress]:[serverPort]/artemis/api/eventService/v1/generalEventRule/single/add)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
generalEventRuleName	Req.	String	Body	Name of the generic event, which consists of up to 32 characters.
transportType	Req.	Number	Body	Transmission type: 0-TCP, 1-UDP, 2-HTTP, 3-HTTPS. The maximum length is 32 characters.
matchType	Req.	Number	Body	Match type: 0-search (the received data package must contain the text specified in expression , but may also have more content), 1-match (the received data package must contain exactly the text specified in expression , and nothing else). The maximum length is 64 characters.
expression	Req.	String	Body	Description of the regular expression, which consists of up to 256 characters.
regularExpression	Req.	String	Body	Regular expression of the generic event, which consists of up to 256 characters.

Request Example

```
{
  "generalEventRuleName": "name1",
  "transportType": 0,
  "matchType": 0,
  "expression": "\'1\' AND \'2\'",
  "regularExpression": "(1.*2|2.*1)"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

5.5.8 POST /artemis/api/eventService/v1/generalEventRule/single/delete

Delete a generic event.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/eventService/v1/generalEventRule/single/delete](https://[serverAddress]:[serverPort]/arTEMIS/api/eventService/v1/generalEventRule/single/delete)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
generalEventRuleIndexCode	Req.	String	Body	Generic event ID, which consists of up to 64 characters.

Request Example

```
{
  "generalEventRuleIndexCode": "1"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

5.5.9 POST /artemis/api/eventService/v1/generalEventRule/single/update

Edit a generic event.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/eventService/v1/generalEventRule/single/update](https://[serverAddress]:[serverPort]/arTEMIS/api/eventService/v1/generalEventRule/single/update)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
generalEventRuleIndexCode	Req.	String	Body	Generic event ID, which consists of up to 64 characters.
generalEventRuleName	Req.	String	Body	Generic event name, which consists of up to 32 characters.
transportType	Req.	Number	Body	Transmission type: 0-TCP, 1-UDP, 2-HTTP, 3-HTTPS. The maximum length is 32 characters.
matchType	Req.	Number	Body	Match type: 0-search (the received data package must contain the text specified in expression , but may also have more content), 1-match (the received data package must contain exactly the text specified in expression , and nothing else). The maximum length is 64 characters.
expression	Req.	String	Body	Description of the regular expression, which consists of up to 256 characters.
regularExpression	Req.	String	Body	Regular expression of the generic event, which consists of up to 256 characters.

Request Example

```
{
  "generalEventRuleIndexCode": "1",
  "generalEventRuleName": "name2",
  "transportType": 0,
  "matchType": 0,
```

```

"expression": "\"1\" AND \"2\"",
"regularExpression": "(1.*2|2.*1)"
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

5.5.10 POST /artemis/api/eventService/v1/generalEventRule/triggerAlarm

Configure parameters to enable receiving the generic events By default, the recipient is admin and the linked camera is the one with storage configured.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/eventService/v1/generalEventRule/triggerAlarm](https://[serverAddress]:[serverPort]/artemis/api/eventService/v1/generalEventRule/triggerAlarm)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
generalEventRuleIndexCodes	Req.	String	Body	Generic event ID (separate multiple items with comma, currently only one ID is supported). The maximum length is 32 characters.
description	Req.	String	Body	Description. The maximum length is 128 characters.
alarmPriority	Req.	Number	Body	Alarm priority: 1-high, 2-medium, 3-low. The maximum length is 64 characters.
triggerPopupWindows	Opt.	Number	Body	Whether it triggers pop-up window: 0-no, 1-yes. The maximum length is 256 characters.
linkCameraList	Opt.	Array	Body	List of linked camera.
linkCameraList[0]	Opt.	Object	Body	Information of linked camera.
cameraIndexCode	Req.	String	Body	Camera ID.
recordType	Opt.	Number	Body	Recording type: 0-main recording, 1-auxiliary recording.
defaultPlayType	Opt.	Number	Body	Default type of video play: 0-live view, 1-playback.

Request Example

```
{
  "generalEventRuleIndexCodes": "1",
  "description": "descriptioninfo",
  "alarmPriority": 1,
  "triggerPopupWindows": 0,
  "linkCameraList": [
    {
      "cameraIndexCode": "1",
      "linkCameraList": [
        {
          "cameraIndexCode": "1"
        }
      ]
    }
  ]
}
```

```

    "recordType": 0
  }
],
"defaultPlayType": 0
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

5.5.11 POST /artemis/api/eventService/v1/image_data

Get alarm pictures from the searched alarm or event information by picture URL.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/eventService/v1/image_data](https://[serverAddress]:[serverPort]/artemis/api/eventService/v1/image_data)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
domainId	Opt.	String	Header	Domain ID, which is used in the streaming URL and consists of up to 16 characters: 0-LAN, 1-WAN. If this field is not configured, the value will be determined by the request.
picUri	Req.	String	Body	Picture URL, which consists of up to 256 characters.

Request Example

```
{
  "picUri": "/pic?=d7ei703i10cd*73a-d5108a--22cd0c9d6592aiid="
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code contains up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description contains up to 256 characters.
data	Opt.	String	Data encoded by Base64 in the response.

Response Example

```
"data:image/jpeg;base64,/9j/4AAQSkzFYSEbxpSTWII7lb2dtYSUW4zd9E/K/U+h9Ls49L0y20yFyy29ukSs3UhVAB/SigyEjFFG5+2RioRUVOP/2Q=="
```

5.5.12 POST /artemis/api/eventService/v1/deviceApplicationEvent

Search for AIOP and HEOP event lists by condition.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/eventService/v1/deviceApplicationEvent](https://[serverAddress]:[serverPort]/artemis/api/eventService/v1/deviceApplicationEvent)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageSize	Req.	String	Body	Number of records on each page.
pageIndex	Req.	String	Body	The current page No.
criteria	Req.	Object	Body	Search conditions, including event type and event name.
sort	Req.	Object	Body	Sort type and sort order.

Table 5-16 criteria Object Description

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
eventCategory	Req.	Number	Body	Event types (100651-HEOP event, 100652-AIOP event).
eventName	Opt.	String	Body	Search by event name. Get all events when this field is empty.

Table 5-17 sort Object Description

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
sortField	Req.	String	Body	Sort by one field: eventName, rawEventName, or description.
orderType	Req.	Number	Body	0-ascending order, 1-descending order.

Request Example

```
{
  "pageIndex": 1,
  "pageSize": 10,
  "criteria": {
    "eventCategory": 100652,
    "eventName": "name"
  },
  "sort": {
    "sortField": "EventName",
    "orderType": 0
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code contains up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description contains up to 256 characters.
data	Opt.	PageInfo	Response data.

Table 5-18 PageInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
totalNum	Req.	Number	Number of search results from search of face picture via picture comparison.
pageIndex	Req.	Number	The current page No.
pageSize	Req.	Number	Number of records on each page.
event	Req.	eventInfo []	Event information. See details in eventList .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "totalNum": 1,
    "pageIndex": 1,
    "pageSize": 10,
    "event": [
      {
        "eventCode": 1,
        "eventType": 1,
        "eventName": "name",
        "rawEventName": "rawname",
        "description": "test",
        "eventCategory": 100652
      }
    ]
  }
}
```

5.6 Intelligent Analysis API

5.6.1 POST /artemis/api/aiapplication/v1/face/faceMatchRecord

Search for the face picture comparison information by camera.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/aiapplication/v1/face/faceMatchRecord](https://[serverAddress]:[serverPort]/artemis/api/aiapplication/v1/face/faceMatchRecord)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
cameraIndexCodes	Opt.	String	Body	Camera ID, the maximum length is 1024 characters. Use comma to separate multiple items. Up to 10 IDs are allowed.
personIndexCodes	Opt.	String	Body	Person ID, the maximum length is 1024 characters. Use comma to separate multiple items. Up to 10 IDs are allowed.
faceGroupIndexCodes	Opt.	String	Body	Face picture library ID, the maximum length is 1024 characters. Use comma to separate multiple items. Up to 10 IDs are allowed.
startTime	Req.	String	Body	Start time of search, which is in ISO 8601 standard time format: yyyy-MM-dd'T'HH:mm:ss.SSSzzz, e.g., 2018-07-26T15:00:00 + 08:00. And the time consists of up to 64 characters.
endTime	Req.	String	Body	End time of search, which is in ISO 8601 standard time format: yyyy-MM-dd'T'HH:mm:ss.SSSzzz, e.g.,

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				2018-07-26T15:00:00 + 08:00. And the time consists of up to 64 characters.
temperatureStatus	Opt.	Number	Body	Temperature status: -1 (all), 0 (unknown), 1 (normal), 2 (exception).
maskStatus	Opt.	Number	Body	Mask status: -1 (all), 0 (unknown), 1 (wearing mask), 2 (no mask).
temperatureThreshold	Opt.	String	Body	Temperature threshold.
sortField	Opt.	String	Body	Sorting field. Currently only one field "MatchedTime" (matching time) is supported.
orderType	Opt.	Number	Body	Sorting type: 0-ascending, 1-descending (by default).

Request Example

```
{
  "pageNo": 1,
  "pageSize": 10,
  "startTime": "2019-08-26T15:00:00+08:00",
  "endTime": "2019-09-16T15:00:00+08:00",
  "cameraIndexCodes": "1",
  "personIndexCodes": "1",
  "faceGroupIndexCodes": "1",
  "temperatureStatus": -1,
  "temperatureThreshold": "36",
  "maskStatus": -1,
  "sortField": "MatchedTime",
  "orderType": 1
}
```

Response Parameters

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

Parameter	Req. or Opt.	Data Type	Description
			to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	List of face picture comparison information.
list[0]	Opt.	FaceMatchRecord	Face picture comparison information.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "pageSize": 500,
    "pageNo": 1,
    "totalNum": 1,
    "list": [
      {
        "recordIndexCode": "28",
        "cameraInfo": {
          "cameraIndexCode": "148",
          "cameraName": "overseas07"
        },
        "faceGroupInfo": {
          "faceGroupIndexCodes": "1",
          "faceGroupName": "Key Personnel"
        },
        "personInfo": {
          "personId": "961",
          "personCode": "6234847952",
          "personGivenName": "Daoke",
          "personFamilyName": "Lai",
          "personName": "Daoke Lai"
        },
        "similarity": 95,
      }
    ]
  }
}
```

```
"faceTime": "2024-03-25T09:42:25+08:00",
"snapFacePicUrl": "Vsm://PHQG#20240325#20240325_091933586.d:68236986:121902",
"bkgPicUrl": "Vsm://PHQG#20240325#20240325_091933586.d:68236986:121902",
"faceRect": {
    "x": 293,
    "y": 63,
    "width": 300,
    "height": 664
},
"bkgRect": {
    "x": 293,
    "y": 63,
    "width": 300,
    "height": 664
},
"wearMaskStatus": 0,
"temperatureStatus": 0,
"temperatureData": "",
"gender": 0,
"ageGroup": 0,
"glasses": 0,
"smile": 1
}
]
}
```

5.7 Visitor API

5.7.1 POST /artemis/api/visitor/v1/appointment

Add a visitor's information for checking in.

Remark

We recommend that you use the API ([POST /artemis/api/visitor/v1/registerment](#)), which will take the place of the old one ([POST /artemis/api/visitor/v1/appointment](#)).

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/visitor/v1/appointment](https://[serverAddress]:[serverPort]/artemis/api/visitor/v1/appointment)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
receptionistId	Opt.	String	Body	ID of the person to be visited, which consists of up to 64 characters.
visitStartTime	Req.	String	Body	Check-in 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". The maximum length is 64 bytes.
visitEndTime	Req.	String	Body	Check-out 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". The maximum length is 64 bytes. Once the visitor checked out, all permissions assigned to this visitor will be unassigned but the visitor information will be retained.
visitPurposeType	Req.	Number	Body	Visiting purpose type: 0-business, 1-training, 2-visit, 3-meeting, 4-others.
visitPurpose	Opt.	String	Body	Visiting purpose, which consists of up to 128 characters.
visitorInfoList	Req.	Object	Body	List of visitor information, which consists of up to 128 characters. Currently, it only

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				supports adding visitor at a time. See details in <u>VisitorInfo</u> .
watchListInfo	Req.	Object	Body	Visitor monitoring list information. See details in <u>watchListInfo</u> .

Request Example

```
{
    "receptionistId": "",
    "visitStartTime": "2018-07-26T15:00:00+08:00",
    "visitEndTime": "2018-07-26T16:00:00+08:00",
    "visitPurposeType": 0,
    "visitPurpose": "visitor",
    "visitorInfoList": [
        {
            "VisitorInfo": {
                "visitorFamilyName": "san",
                "visitorGivenName": "zhang",
                "visitorGroupName": "Visitors",
                "gender": 1,
                "email": "999999@qq.com",
                "phoneNo": "13600000000",
                "plateNo": "A666",
                "companyName": "AAA",
                "certificateType": 111,
                "certificateNo": "null",
                "remark": "visitor",
                "accessInfo": {
                    "electrostaticDetectionType": 0,
                    "qrCodeValidNum": 0
                },
                "watchListInfo": [
                    {
                        "enableRegister": 1,
                        "ID": "0",
                        "Type": "1"
                    }
                ],
                "faces": [
                    {
                        "faceData": "/9j/4AAQSkZRgABAQEAAAAAAAD/4QBCRXhpZgAATU.."
                    }
                ],
                "fingerPrint": [
                    {

```

```

        "fingerPrintIndexCode": "1",
        "fingerPrintName": "fringe_pringt_01",
        "fingerPrintData": "46504D228697F1AD0146C8D00",
        "relatedCardNo": "123456"
    }
],
"cards": [
{
    "cardNo": "123456"
}
]
}
]
}
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
appointRecordId	Opt.	String	Reservation record ID, which consists of up to 64 characters.
visitorId	Opt.	String	Visitor ID, which consists of up to 64 characters.
qrCodeImage	Opt.	String	Visitor QR code, encoded by Base64; represented by "data:image/png;base64".

Response Example

```
{
    "code": "0",
    "msg": "Success",
    "data": {

```

```

    "appointRecordId": "1",
    "visitorId": "'2"
}
}

```

5.7.2 POST /artemis/api/visitor/v1/appointment/update

Edit a visitor's information for checking in. Currently, editing visitors in a batch is not supported.

Remark

We recommend that you use the API ([*POST /artemis/api/visitor/v1/registerment/update*](#)), which will take the place of the old one ([*POST /artemis/api/visitor/v1/appointment/update*](#)).

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/visitor/v1/appointment/update](https://[serverAddress]:[serverPort]/artemis/api/visitor/v1/appointment/update)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
appointRecordId	Req.	String	Body	Reservation record ID, which consists of up to 64 characters.
receptionistId	Opt.	String	Body	ID of the person to be visited, which consists of up to 16 characters.
visitStartTime	Req.	String	Body	Check-in 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". The maximum length is 64 bytes.
visitEndTime	Req.	String	Body	Check-out time in ISO 8601 format, which is represented by "yyyy-MM-ddTHH:mm:ss +current time zone", e.g.,

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				"2018-07-26T15:00:00+08:00". The maximum length is 64 bytes. Once the visitor checked out, all permissions assigned to this visitor will be unassigned but the visitor information will be retained.
visitPurposeType	Req.	Number	Body	Visiting purpose type: 0-business, 1-training, 2-visit, 3-meeting, 4-others.
visitPurpose	Opt.	String	Body	Visiting purpose.
visitorInfoList	Req.	Array	Body	List of visitor information, which consists of up to 128 characters. Currently, it only supports one visitor at a time. See details in VisitorInfo .

Request Example

```
{
  "appointRecordId": "1",
  "receptionistId": "1",
  "visitStartTime": "2018-07-26T15:00:00+08:00",
  "visitEndTime": "2018-07-26T16:00:00+08:00",
  "visitPurposeType": 0,
  "visitPurpose": "visitor",
  "visitorInfoList": [
    {
      "VisitorInfo": {
        "visitorFamilyName": "san",
        "visitorGivenName": "zhang",
        "visitorGroupName": "Visitors",
        "gender": 1,
        "email": "null",
        "phoneNo": "13600000000",
        "plateNo": "BBBA",
        "companyName": "AAA",
        "certificateType": 111,
        "certificateNo": "null",
        "remark": "null",
        "accessInfo": {
          "electrostaticDetectionType": 0,
          "qrCodeValidNum": 0
        }
      }
    }
  ]
}
```

```
{
  "faces": [
    {
      "faceData": "/9j/4AAQSkZJRgABAQEAAAAAAD/4QBCRXhpZgAATU.."
    }
  ],
  "fingerPrint": [
    {
      "fingerPrintIndexCode": "1",
      "fingerPrintName": "fringe_pringt_01",
      "fingerPrintData": "46504D228697F1AD0146C8D00",
      "relatedCardNo": "123456"
    }
  ],
  "cards": [
    {
      "cardNo": "123456"
    }
  ]
}
]
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
appointRecordId	Opt.	String	Reservation record ID, which will change each time the visitor information is updated. The maximum length is 64 characters.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": []
}
```

5.7.3 POST /artemis/api/visitor/v1/registerment

Check in a visitor.

Remark

We recommend that you use the API ([***POST /artemis/api/visitor/v1/registerment***](#)), which will take the place of the old one ([***POST /artemis/api/visitor/v1/appointment***](#)), for checking in a visitor.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/visitor/v1/registerment](https://[serverAddress]:[serverPort]/artemis/api/visitor/v1/registerment)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
receptionistId	Opt.	String	Body	ID of the person to be visited, which consists of up to 64 characters.
appId	Opt.	String	Body	Reservation record ID, which consists of up to 64 characters.
visitorId	Opt.	String	Body	Visitor ID, which consists of up to 64 characters.
visitStartTime	Req.	String	Body	Check-in time in ISO 8601 format, which is represented by "yyyy-MM-ddTHH:mm:ss +current time zone", e.g., "2018-07- 26T15:00:00

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				+ 08:00". The maximum length is 64 characters.
visitEndTime	Req.	String	Body	Check-out 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". The maximum length is 64 characters. Once the visitor checked out, all permissions assigned to this visitor will be unassigned but the visitor information will be retained.
visitPurposeType	Req.	Number	Body	Visiting purpose type: 0-business, 1-training, 2-visit, 3-meeting, 4-others.
visitPurpose	Opt.	String	Body	Visiting purpose, which consists of up to 128 characters.
visitorInfoList	Req.	VisitorInfo[]	Body	List of visitor information, which consists of up to 128 characters. Currently, it only supports one visitor at a time. See details in <u>VisitorInfo</u> .
watchListInfo	Req.	Object	Body	Visitor monitoring list information. See details in <u>watchListInfo</u> .

Request Example

```
{
  "receptionistId": "",
  "visitStartTime": "2018-07-26T15:00:00+08:00",
  "visitEndTime": "2018-07-26T16:00:00+08:00",
  "visitPurposeType": 0,
  "visitPurpose": "visitor",
  "visitorInfoList": [
    {
      "VisitorInfo": {
        "visitorFamilyName": "san",
        "visitorGivenName": "san"
      }
    }
  ]
}
```

```

"visitorGivenName": "zhang",
"visitorGroupName": "Visitors",
"gender": 1,
"email": "999999@qq.com",
"phoneNo": "13600000000",
"plateNo": "A666",
"companyName": "AAA",
"certificateType": 111,
"certificateNo": "null",
"remark": "visitor",
"accessInfo": {
    "electrostaticDetectionType": 0,
    "qrCodeValidNum": 0
},
"watchListInfo": [
    {
        "enableRegister": 1,
        "ID": "0",
        "Type": "1"
    }
],
"faces": [
    {
        "faceData": "/9j/4AAQSkZRgABAQEAAAAAAAD/4QBCRXhpZgAATU.."
    }
],
"fingerPrint": [
    {
        "fingerPrintIndexCode": "1",
        "fingerPrintName": "fringe_pringt_01",
        "fingerPrintData": "46504D228697F1AD0146C8D00",
        "relatedCardNo": "123456"
    }
],
"cards": [
    {
        "cardNo": "123456"
    }
]
}
}
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for

Parameter	Req. or Opt.	Data Type	Description
			details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
appointRecordId	Opt.	String	Reservation record ID, which consists of up to 64 characters.
visitorId	Opt.	String	Visitor ID, which consists of up to 64 characters.
qrCodeImage	Opt.	String	Visitor QR code, encoded by Base64; represented by "data:image/png;base64".

Request Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "appointRecordId": "1",
    "visitorId": "2"
    "qrCodeImage": "iVBORw0KGgoAAAANSUhEUg"
  }
}
```

5.7.4 POST /artemis/api/visitor/v1/registerment/update

Edit a visitor's information for checking in.

Remark

We recommend that you use the API ([**POST /artemis/api/visitor/v1/registerment/update**](#)), which will take the place of the old one ([**POST /artemis/api/visitor/v1/appointment/update**](#)).

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/visitor/v1/registerment/update](https://[serverAddress]:[serverPort]/arTEMIS/api/visitor/v1/registerment/update)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
appointRecordId	Req.	String	Body	Reservation record ID, which consists of up to 64 characters.
receptionistId	Opt.	String	Body	ID of the person to be visited, which consists of up to 16 characters.
visitStartTime	Req.	String	Body	Check-in 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". The maximum length is 64 characters.
visitEndTime	Req.	String	Body	Check-out 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". The maximum length is 64 characters. Once the visitor checked out, all permissions assigned to this visitor will be unassigned but the visitor information will be retained.
visitPurposeType	Req.	Number	Body	Visiting purpose type: 0-business, 1-training, 2-visit, 3-meeting, 4-others.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
visitPurpose	Opt.	String	Body	Visiting purpose. The maximum length is 128 characters.
visitorInfoList	Req.	VisitorInfo[]	Body	List of visitor information, which consists of up to 128 characters. Currently, it only supports one visitor at a time. See details in VisitorInfo .

Request Example

```
{
  "appointRecordId": "1",
  "receptionistId": "1",
  "visitStartTime": "2018-07-26T15:00:00+08:00",
  "visitEndTime": "2018-07-26T16:00:00+08:00",
  "visitPurposeType": 0,
  "visitPurpose": "visitor",
  "visitorInfoList": [
    {
      "VisitorInfo": {
        "visitorFamilyName": "san",
        "visitorGivenName": "zhang",
        "visitorGroupName": "Visitors",
        "gender": 1,
        "email": "null",
        "phoneNo": "13600000000",
        "plateNo": "BBBA",
        "companyName": "AAA",
        "certificateType": 111,
        "certificateNo": "null",
        "remark": "null",
        "accessInfo": {
          "electrostaticDetectionType": 0,
          "qrCodeValidNum": 0
        },
        "faces": [
          {
            "faceData": "/9j/4AAQSkZJRgABAQEAAAAAAAD/4QBCRXhpZgAATU.."
          }
        ],
        "fingerPrint": [
          {
            "fingerPrintIndexCode": "1",
            "fingerPrintName": "fringe_pringt_01",
            "fingerPrintData": "46504D228697F1AD0146C8D00",
            "relatedCardNo": "123456"
          }
        ]
      }
    }
  ]
}
```

```
        }
    ],
    "cards": [
        {
            "cardNo": "123456"
        }
    ]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
appointRecordId	Opt.	String	Reservation record ID, which will change each time you edit the visitor information. The maximum length is 64 characters.

Request Example

```
{
    "code": "0",
    "msg": "Success",
    "data": []
}
```

5.7.5 POST /artemis/api/visitor/v2/appointment

Make a reservation for a visitor.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/visitor/v2/appointment](https://[serverAddress]:[serverPort]/artemis/api/visitor/v2/appointment)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
receptionistId	Opt.	String	Body	ID of the person to be visited, which can be obtained via <u>POST /artemis/api/resource/v1/person/advance/personList</u> and consists of up to 64 characters.
appointStartTime	Req.	String	Body	Expected time of arrival 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". The maximum length is 64 characters.
appointEndTime	Req.	String	Body	Expected time of leaving 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". The maximum length is 64 characters. If the visitor has checked out, all permissions assigned to the visitor will be unassigned.
visitReasonType	Req.	Number	Body	Visiting purpose type: 0-business, 1-training, 2-visit, 3-meeting, 4-others.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
visitReasonDetail	Opt.	String	Body	Visiting purpose, this parameters is required when the value of visitReasonType is 4. The maximum length is 128 characters.
visitorInfoList	Req.	Array	Body	List of visitor information, which consists of up to 128 characters. Currently, it only supports adding one visitor at a time.
visitorInfoList[0]	Req.	VisitorInfo[]	Body	List of visitor information, which consists of up to 128 characters. Currently, it only supports one visitor at a time. See details in VisitorInfo .
accessInfo	Opt.	Object	Body	Visitor's access permission. See details in accessInfo . The maximum length is 128.
watchListInfo	Opt.	watchListInfo[]	Body	Monitoring list information. See details in watchListInfo . The maximum length is 128.

Request Example

```
{
    "receptionistId": "2",
    "appointStartTime": "2021-05-09T15:00:00+08:00",
    "appointEndTime": "2021-05-14T15:00:00+08:00",
    "visitReasonType": 0,
    "visitReasonDetail": "null",
    "visitorInfoList": [
        {
            "VisitorInfo": {
                "visitorFamilyName": "mmm",
                "visitorGivenName": "yyyy",
                "visitorGroupName": "Visitors",
                "gender": 1,
                "email": "1@qq.com",
                "phoneNo": "13600000000",
                "plateNo": "Zhe A",
                "companyName": "hik",
            }
        }
    ]
}
```

```
"certificateType":111,
"certificateNo":"dddd2234",
"remark":"null",
"accessInfo": {
    "electrostaticDetectionType": 0,
    "qrCodeValidNum": 0,
    "accessLevelList": [
        {
            "accessLevel": {
                "id": 1,
                "baseInfo": {
                    "name": "1"
                }
            }
        }
    ],
    "watchListInfo": [
        {
            "enableRegister": 1,
            "ID": "0",
            "Type": "1"
        }
    ],
    "faces": [
        {
            "faceData":"/9j/4AAQSkZRgABAQEAAAAAAAD/4QBCRXhpZgAATU.."
        }
    ],
    "identiPhoto": [
        {
            "identiPhoto":"/9j/4AAQSkZRgABAQEAAAAAAAD/4QBCRXhpZgAATU.."
        }
    ],
    "customField": [
        {
            "customID": "1",
            "customFieldName": "",
            "customFieldType": 0,
            "customFieldValue": ""
        }
    ]
},
"accessInfo": {
    "accessLevelList": [
        {
            "accessLevel": {
                "id": 1,
                "baseInfo": {
                    "name": "1"
                }
            }
        }
    ]
}
```

```

        }
    }
}
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
appointRecordId	Opt.	String	Reservation record ID, which consists of up to 64 characters.
visitorId	Opt.	String	Visitor ID, which consists of up to 64 characters.
appointCode	Opt.	String	Reservation code, which consists of up to 64 characters.
qrCodeImage	Opt.	String	Visitor QR code, encoded by Base64; represented by "data:image/png;base64".
ApprovalFlowCode	Req.	String	Approval flow code of visitor reservation.
watchListInfo	Opt.	watchListInfo fo []	Monitoring list information.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "appointRecordId": "1",
    "visitorId": "2",
    "qrCodeImage": "iVBORw0KGgoAAAQMAAAAFVwwBAAA",
    "AppointCode": "5080",
    "watchListInfo": [
      ...
    ]
  }
}
```

```
{
    "enableRegister": true,
    "id": 0,
    "type": "1",
    "visitorType": "",
    "type": "",
    "remark": "",
    "visitorTypeName": "",
    "identiFicationType": "",
    "identiFiyCode": "",
    "haveVisitorHeadPic": 0,
    "haveVisitorIdentPic": 0,
}
]
}
}
```

5.7.6 POST /artemis/api/visitor/v1/appointment/single/delete

Delete a visitor's reservation record.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/visitor/v1/appointment/single/delete](https://[serverAddress]:[serverPort]/artemis/api/visitor/v1/appointment/single/delete)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? < >
appointRecordId	Req.	String	Body	Reservation record ID, which consists of up to 64 characters.

Request Example

```
{
    "appointRecordId": "5"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.

Request Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

5.7.7 POST /artemis/api/visitor/v2/appointment/update

Edit a visitor's reservation record.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/visitor/v2/appointment/update](https://[serverAddress]:[serverPort]/artemis/api/visitor/v2/appointment/update)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
appointRecordId	Req.	String	Body	Reservation record ID, which consists of up to 64 characters.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
receptionistId	Opt.	String	Body	ID of the person to be visited, which consists of up to 64 characters.
appointStartTime	Req.	String	Body	Expected time of arrival 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". The maximum length is 64 characters.
appointEndTime	Req.	String	Body	Expected time of leaving 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". The maximum length is 64 characters. If the visitor has checked out, all permissions assigned to the visitor will be unassigned.
visitReasonType	Req.	Number	Body	Visiting purpose type: 0-business, 1-training, 2-visit, 3-meeting, 4-others.
visitReasonDetail	Opt.	String	Body	Visiting purpose, this parameters is required when the value of visitReasonType is 4. The maximum length is 128 characters.
visitorInfoList	Req.	Array	Body	List of visitor information, which consists of up to 128 characters. Currently, it only supports editing one visitor's

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				information at a time. See details in <u>VisitorInfo</u> .
accessInfo	Opt.	Object	Body	Visitor's access permission. See details in <u>accessInfo</u> . The maximum length is 128.

Request Example

```
{
    "receptionistId":"",
    "appointStartTime":"2020-10-26T15:00:00+08:00",
    "appointEndTime":"2020-10-29T15:00:00+08:00",
    "visitReasonType":0,
    "visitReasonDetail":"null",
    "visitorInfoList":[{
        "VisitorInfo":{
            "visitorFamilyName":"null",
            "visitorGivenName":"null",
            "visitorGroupName": "Visitors",
            "gender":1,
            "email":"",
            "phoneNo":"13600000000",
            "plateNo":"A",
            "companyName":"hik",
            "certificateType":111,
            "certificateNo":"null",
            "remark":"null",
            "accessInfo": {
                "electrostaticDetectionType": 0,
                "qrCodeValidNum": 0,
                "accessLevelList": [
                    {
                        "accessLevel": {
                            "id": 1,
                            "baseInfo": {
                                "name": "1"
                            }
                        }
                    }
                ]
            },
            "faces": "null",
            "customField":[
                {
                    "customID":"1",
                    "customFieldName":""}
    ]}}
```

```

        "customFieldType":0,
        "customFieldValue": ""
    }
]
}
]
}
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
appointRecordId	Opt.	String	Reservation record ID, which will change each time you edit the visitor information. The maximum length is 64 characters.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "appointRecordId": "6",
    "visitorId": "5",
    "appointCode": "6582"
  }
}
```

5.7.8 POST /artemis/api/visitor/v1/visitor/out

Check out a visitor and the visitor's access permission will be revoked.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/visitor/v1/visitor/out](https://[serverAddress]:[serverPort]/artemis/api/visitor/v1/visitor/out)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
appointRecord Id	Req.	String	Body	Reservation record ID.

Request Example

```
{
  "appointRecordId": "1"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
```

```
"data":  
}
```

5.7.9 POST /artemis/api/visitor/v1/appointment/appointmentlist

Get the list of reservation records.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/visitor/v1/appointment/appointmentlist](https://[serverAddress]:[serverPort]/artemis/api/visitor/v1/appointment/appointmentlist)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483648.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
appointStartTime	Req.	String	Body	Expected time of arrival 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". The maximum length is 64 characters.
appointEndTime	Req.	String	Body	Expected time of leaving 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". The maximum length is 64 characters. If the visitor has checked out, all permissions

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				assigned to the visitor will be unassigned.
visitorName	Opt.	String	Body	Visitor's name, which consists up to 64 characters.
companyName	Opt.	String	Body	Name of the company, which consists of up to 64 characters.
interviewName	Opt.	String	Body	Name of the person to be visited, which consists of up to 64 characters.
appointCode	Opt.	String	Body	Reservation code, which consists of up to 64 characters.
identiCode	Opt.	String	Body	ID Card number, which consists of up to 64 characters.
phoneNo	Opt.	String	Body	Phone number, which consists of up to 64 characters.
appointState	Opt.	Number	Body	Reservation status: -1 (all obtained); 0 (reservation record has been added); 1 (reservation has been invalid); 2 (visitor has arrived). The maximum length is 64 characters.
visitorReason	Opt.	String	Body	Visiting purpose, which consists of up to 64 characters.
sortField	Opt.	String	Body	Sort for one single field. Currently only VisitingTime is supported.
orderType	Opt.	Number	Body	0 (in ascending order); 1 (default: in descending order).

Request Example

```
{
  "pageNo": 1,
  "pageSize": 100,
  "appointStartTime": "2021-04-09T15:00:00+08:00",
```

```

"appointEndTime": "2021-05-19T15:00:00+08:00",
"visitorName": "sad",
"companyName": "AAA",
"interviewName": "",
"appointCode": "",
"identiCode": "111",
"phoneNo": "",
"appointState": -1,
"visitorReason": 4,
"sortField": "VisitingTime",
"orderType": 0
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of matched results, the maximum length is 32 characters.
pageNo	Opt.	Number	The current page No, the maximum length is 32 characters.
pageSize	Opt.	Number	Number of records on each page, the maximum length is 32 characters.
list	Opt.	Array	Reservation record list.
list[0]	Opt.	VisitorappointInfo	Information of a reservation record.

Response Example

```
{
  "code": "0",
  "msg": "Success",
}
```

```
"data": {
    "total": 1,
    "pageNo": 1,
    "pageSize": 100,
    "list": [{"appointStartTime": "2021-05-06T17:00:39+08:00",
        "appointEndTime": "2021-05-06T23:59:59+08:00",
        "appointCode": "5905",
        "appointID": "5",
        "approvalFlowCode": "20240123301",
        "visitReasonType": 4,
        "visitorReasonName": "other",
        "visitReasonDetail": "123",
        "appointStatus": 0,
        "visitorInfo": {
            "visitorId": "4",
            "email": "",
            "remark": "",
            "visitorFamilyName": "sdasd",
            "visitorGivenName": "sad",
            "visitorName": "sad sdasd",
            "gender": 1,
            "plateNo": "",
            "phoneNo": "",
            "companyName": "hik",
            "certificateType": 111,
            "certificateNo": "1234567",
            "visitorPhoto": {
                "haveVisitorPhoto": 0,
                "haveDentiPhoto": 0
            },
            "customField": [
                {
                    "customID": "1",
                    "customFieldName": "",
                    "customFieldType": 0,
                    "customFieldValue": ""
                }
            ]
        },
        "accessInfo": {
            "electrostaticDetectionType": 1,
            "qrCodeValidNum": 1,
            "accessLevelList": [
                {
                    "accessLevel": {
                        "id": 1,
                        "baseInfo": {
                            "name": "1"
                        }
                    }
                }
            ]
        }
    }]
}
```

```

        }
    }
}
]
}
}
```

5.7.10 POST /artemis/api/visitor/v1/appointment/downloadpicture

Get the picture of a visitor.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/visitor/v1/appointment/downloadpicture](https://[serverAddress]:[serverPort]/artemis/api/visitor/v1/appointment/downloadpicture)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
visitorId	Req.	String	Body	Visitor ID, which consists of up to 64 characters.
picUrl	Req.	String	Body	URL of the visitor's picture used for reservation, which consists of up to 256 characters.
picType	Req.	String	Body	Picture type: 0-small picture, 1-big picture, 3-ID photo. The maximum length is 64 characters.

Request Example

```
{
  "visitorId": "1",
  "picType": "0"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.

Request Example

```
"data:image/jpeg;base64,/9j/4AAQSkzFYSEbxpSTWII7lb2dtYSUW4zd9E/K/U+h9Ls49L0y20yFyy29ukSs3UhVAB/
SigyEjFFG5+2RioRUVOP/2Q=="
"data:image/jpeg;base64,/9j/4AAQSkzFYSEbxpSTWII7lb2dtYSUW4zd9E/K/U+h9Ls49L0y20yFyy29ukSs3UhVAB/
SigyEjFFG5+2RioRUVOP/2Q=="
```

5.7.11 POST /artemis/api/visitor/v1/visitorconfig/customfields

Search for the custom information about visitors.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/visitor/v1/visitorconfig/customfields](https://[serverAddress]:[serverPort]/arTEMIS/api/visitor/v1/visitorconfig/customfields)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like ' / \ : * ? " < >
pageIndex	Req.	Number	Body	The current page No., which is between 1 and 2147483648.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
customFieldName	Opt.	String	Body	Custom field for fuzzy search.

Request Example

```
{
  "pageIndex":0,
  "pageSize":0,
  "customFieldName":"abc"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of matched results, the maximum length is 32 characters.
pageIndex	Opt.	Number	Current page, the maximum length is 32 characters.
pageSize	Opt.	Number	Number of records on each page, the maximum length is 32 characters.
CustomField	Opt.	Array	List of the custom information about visitors.
CustomField[0]	Opt.	CustomField	Custom information about a visitor.

Response Example

```
{
  "code":"0",
  "msg":"Success",
  "data":{
    "CustomFieldList":{
      "TotalNum":0,
      "pageIndex":0,
      "pageSize":0,
      "CustomField":[
        {
          "indexCode":0,
          "customFieldType": 0,
          "customFieldName":"",
          "PresetValueList":{
            "PresetValue":[
              {
                "indexCode":0,
                "value": ""
              }
            ]
          }
        }
      ]
    }
  }
}
```

5.7.12 POST /artemis/api/visitor/v1/visitorgroups

Search for the information about visitor groups by group name.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/visitor/v1/visitorgroups](https://[serverAddress]:[serverPort]/arTEMIS/api/visitor/v1/visitorgroups)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
visitorGroupName	Opt.	String	Body	Visitor group name, which consists of up to 128 characters.

Request Example

```
{
  "SearchCriteria": {
    "visitorGroupName": ""
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
indexCode	Req.	String	Group ID, which consists of up to 32 characters.
name	Req.	String	Group name, which consists of up to 64 characters.

Response Example

```
{
  "code":"0",
  "msg":"Success",
  "data":{
```

```
"VisitorGroupList":{  
  "VisitorGroup"::[{  
    "indexCode":0,  
    "baseInfo":{  
      "name":""  
    }  
  }]  
}
```

5.7.13 POST /artemis/api/visitor/v1/visitorgroups/groupinfo

Search for visitors' information by visitor group ID.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/visitor/v1/visitorgroups/groupinfo](https://[serverAddress]:[serverPort]/artemis/api/visitor/v1/visitorgroups/groupinfo)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
indexCode	Req.	String	Body	Visitor group ID, which consists of up to 32 characters.
identifyCode	Opt.	string	Body	ID No., which consists of up to 128 characters.
personName	Opt.	string	Body	Name of the visitor, which consists of up to 128 characters.
phoneNum	Opt.	string	Body	Phone number, which consists of up to 128 characters.
companyName	Opt.	string	Body	Company name, which consists of up to 128 characters.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
temperatureStatus	Opt.	Number	Body	Temperature status: 0 (exception), 1 (normal), 2 (unknown), -1 (all).
blackListStatus	Opt.	Number	Body	Whether the visitor is in the blocklist: 0 (no), 1(yes), -1 (all).

Request Example

```
{
  "VisitorListRequest":{
    "indexCode":"1",
    "pageIndex":0,
    "pageSize":0,
    "searchCriteria":{
      "identifyCode":"",
      "personName":"",
      "phoneNum":"",
      "companyName":"",
      "remperatureStatus":0,
      "blackListStatus":0
    }
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.

Parameter	Req. or Opt.	Data Type	Description
total	Opt.	Number	Total number of matched results, the maximum length is 32 characters.
pageIndex	Opt.	Number	The current page No, the maximum length is 32 characters.
pageSize	Opt.	Number	Number of records on each page, the maximum length is 32 characters.
list	Opt.	Array	List of information about visitors' reservation.
list[0]	Opt.	Visitor	A visitor's reservation information.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "pageSize": 1,
    "pageIndex": 10,
    "total": 10,
    "VisitorList": {
      "Visitor": [
        {
          "ID": 0,
          "BaseInfo": {
            "fullName": ""
          }
        }
      ]
    }
  }
}
```

5.7.14 POST /artemis/api/visitor/v1/visitor/visitorInfo

Search for visitors' information by condition.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/visitor/v1/visitor/visitorInfo](https://[serverAddress]:[serverPort]/artemis/api/visitor/v1/visitor/visitorInfo)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483648.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
searchCriteria	Opt.	Object	Body	Search conditions.
visitorGroupID	Opt.	String	Body	Visitor group ID, which consists of up to 64 characters.
identifyCode	Opt.	String	Body	ID No., which consists of up to 64 characters.
personName	Opt.	String	Body	Name of the visitor, which consists of up to 128 characters.
phoneNum	Opt.	String	Body	Phone number, which consists of up to 128 characters.
companyName	Opt.	String	Body	Company name, which consists of up to 128 characters.
identificationType	Opt.	String	Body	Identification type, which consists of up to 128 characters.

Request Example

```
{
  "pageNo ":"0",
  "pageSize":"20",
  "searchCriteria":{
    "visitorGroupID":"1,2,3"
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	VisitorInfo	Response data details.

5.7.15 POST /artemis/api/visitor/v1/visitor/single/visitorinfo

Get the visitor's information by visitor ID.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/visitor/v1/visitor/single/visitorinfo](https://[serverAddress]:[serverPort]/artemis/api/visitor/v1/visitor/single/visitorinfo)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
visitorId	Req.	String	Body	Visitor ID, which consists of up to 64 characters.

Request Example

```
{
  "visitorId": "125"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	VisitorInfo	Response data details.

5.7.16 POST /artemis/api/visitor/v1/visitorapprovalflow/status

Approve or reject submitted visitor reservation.

Request URL

[https://\[serverAddress\]:\[serverPort\]/api/visitor/v1/visitorapprovalflow/status](https://[serverAddress]:[serverPort]/api/visitor/v1/visitorapprovalflow/status)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
operateType	Req.	Number	Body	Review decision: 0-approve, 1-reject.
approvalOpinion	Opt.	String	Body	Review comment. The maximum length is 128.
approvalFlowInfo	Req.	ApprovalFlowInfo[]	Body	Review process details. Refer to ApprovalFlowInfo .

Request Example

```
{
  "Visitor": {
    "operateType": 0,
    "approvalOpinion": "null",
  }
}
```

```

"ApprovalFlowInfo": [
  {
    "approvalFlowCode": "null",
    "watchlistInfo": {
      "id": 0
    }
  }
]
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Refer to ErrorcodeApprovalReviewInfo .

Response Example

```
{
  "code": "0",
  "msg": "success",
  "data": [
    {
      "errorCode": 0,
      "visitorID": 0,
      "approvalFlowCode": "null",
      "visitorName": "null"
    }
  ]
}
```

5.7.17 POST /artemis/api/visitor/v1/visitorConfig/automaticApproval

Check whether the auto review of visitor reservation is enabled or not.

Request URL

[https://\[serverAddress\]:\[serverPort\]/api/visitor/v1/visitorConfig/automaticApproval](https://[serverAddress]:[serverPort]/api/visitor/v1/visitorConfig/automaticApproval)

Request Parameters

None.

Request Example

None.

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Req.	Object	Response data information. The maximum length is 128.
automaticApproval	Req.	Number	Auto review configuration.

Response Example

```
{
  "code": "0",
  "msg": "success",
  "data": {
    "automaticApproval": 1
  }
}
```

5.7.18 POST /artemis/api/visitor/v1/appointment/getVisitorStatus

Get the visitor status at a certain time.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/visitor/v1/appointment/getVisitorStatus](https://[serverAddress]:[serverPort]/artemis/api/visitor/v1/appointment/getVisitorStatus)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
visitorId	Req.	String	Body	Visitor ID.
visitTimePoint	Req.	String	Body	Visit time in ISO format.

Request Example

```
{
  "visitorId": "1",
  "visitTimePoint": "2023-01-01T12:00:00+08:00"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
visitorStatus	Req.	String	Visitor status. -1 (null); 0 (reserved); 1 (expired); 2 (visited); 3 (checked in); 4 (checked out); 5 (auto checked out after the visit time); 6 (checked out via self-service); 7 (not checked out)

Parameter	Req. or Opt.	Data Type	Description
			after the visit time); 8 (to be approved); 9 (reservation failed).

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "visitorStatus": "0"
  }
}
```

5.7.19 POST /artemis/api/visitor/v1/register/getVistorRegisterRecord

Get the visitor check-in records.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/visitor/v1/register/getVistorRegisterRecord](https://[serverAddress]:[serverPort]/artemis/api/visitor/v1/register/getVistorRegisterRecord)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
pageNo	Req.	Number	Body	Page No., greater than 0.
pageSize	Req.	Number	Body	Number of records on one page. Less than 500.
certificateNo	Opt.	String	Body	Certificate No. Special characters cannot be contained. Maximum 64 characters.
visitorName	Opt.	String	Body	Visitor name. Special characters cannot be contained. Maximum 64 characters.
phoneNumber	Opt.	String	Body	Phone No. Special characters cannot be contained. Maximum 64 characters.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
companyName	Opt.	String	Body	Company name. Special characters cannot be contained. Maximum 64 characters.
visitReason	Opt.	String	Body	Visit reason ID. 0 (business); 1 (training); 2 (tour); 3 (meeting); 4 (others).
visitorStatus	Opt.	String	Body	Visitor status. 0 (checked in); 1 (checked out); 2 (auto checked out after the visit time); 3 (checked out via self service); 4 (not checked out after the visit time). Get multiple types of status by the corresponding values separated by commas (e.g., "1,2,4"). All status are obtained if this is left empty.
visitStartTime	Req.	String	Body	The reserved visit start time in ISO format.
visitEndTime	Req.	String	Body	The reserved visit end time in ISO format.
sortField	Req.	String	Body	Sort by visitingTime.
orderType	Req.	String	Body	0 (in ascending order); 1 (in descending order).

Request Example

```
{
  "pageNo": 1,
  "pageSize": 100,
  "certificateNo": "335648978",
  "visitorName": "aa",
  "phoneNumber": "123456",
  "companyName": "microsoft",
  "visitReason": "1",
  "visitorStatus": "0",
  "visitStartTime": "2023-01-01T12:00:00+08:00",
  "visitEndTime": "2023-01-02T12:00:00+08:00",
  "sortField": "visitingTime",
```

```

    "orderType": "0"
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details).
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details.
data	Opt.	PageInfo	Details of visitor check-in records.
totalNum	Opt.	Number	Total number of records. Maximum 32.
pageIndex	Opt.	Number	Page No. Maximum 32.
pageSize	Opt.	Number	Number of records on one page. Maximum 32.
list	Opt.	VisitorRegisterRecordInfo	Refer to VisitorRegisterRecordInfo .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "totalNum": 100,
    "pageIndex": 1,
    "pageSize": 100,
    "list": [
      {
        "recordId": "1",
        "registerTime": "2023-01-01T12:00:00+08:00",
        "visitorStatus": "0",
        "qRCodeImage": "dsdasfdsafdsaftrr",
        "haveCheckInGoodsPic": 0,
        "haveCheckOutGoodsPic": 0,
        "visitorBaseInfo": {
          "visitorId": "1",
          "visitStartTime": "2023-01-01T09:00:00+08:00",
          "visitEndTime": "2023-01-01T23:00:00+08:00",
          "companyName": "microsoft",
        }
      }
    ]
  }
}
```

```

    "remark": "vip",
    "email": "123@qq.com",
    "fullName": "ab",
    "visitorGroup": "Visitors",
    "visitorGroupId": "1",
    "gender": "0",
    "certificateType": "0",
    "certificateNo": "11111",
    "phoneNum": "888888",
    "physicsCardStatus": "0",
    "smallPhotoUrl": "34224543543t56y"
},
"visitorCardInfo": {
    "cardId": "1",
    "cardNumber": "33333333"
},
"visitorFingerprintInfo": {
    "fingerprintId": "1",
    "fingerprintName": "no.1"
},
"visitorReason": {
    "reasonId": "3",
    "reasonName": "meeting"
}
}
]
}
}
}

```

5.7.20 POST /artemis/api/visitor/v1/visitorApprovalFlow/details

Get the visitor approval flow details by the application flow ID.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/visitor/v1/visitorApprovalFlow/details](https://[serverAddress]:[serverPort]/artemis/api/visitor/v1/visitorApprovalFlow/details)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
approvalFlowCode	Req.	String	Body	Approval flow ID. Maximum 64 characters.

Request Example

```
{
  "approvalFlowCode": "2023112311"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	ApprovalFlowDataInfo	Response data details.
status	Req.	String	Flow status. 0 (to be approved); 1 (approved); 2 (revoked); 3 (rejected); 4 (discarded); 5 (terminated unexpectedly).
abnormalReason	Opt.	String	Reason for unexpected termination. 0 (null); 1 (applicant deleted); 2 (applicant resigned); 3 (reservation expired).
approvalFlowType	Req.	String	Flow type. 0 (leave); 1 (work extra time); 2 (attendance correction); 3 (off site check-in); 4 (visitor reservation).
approvalFlowCode	Req.	String	Flow No.
applicantTime	Req.	String	Application time in ISO format.
applicantName	Opt.	String	Applicant name.
applicantId	Opt.	String	Applicant ID.

Parameter	Req. or Opt.	Data Type	Description
userName	Opt.	String	Platform user name.
userId	Req.	String	Platform user ID.
isAutoApproval	Req.	Number	0 (auto approval enabled); 1 (auto approval disabled).
approvalFlowNode	Req.	approvalFlowNode[0]	Flow node.
nodeId	Opt.	String	Node ID.
nodeStatus	Opt.	String	Node status. 0 (under review); 1 (approved); 2 (not approved); 3 (revoked); 4 (to be approved).
approverType	Opt.	String	Approver type. 0 (platform user); 1 (platform person).
approverName	Opt.	String	Approver name.
approvalComment	Opt.	String	Approval comment.
approvalTime	Opt.	String	Approval time in ISO format.
approvalRole	Opt.	approvalRole[0]	Approval role.
approvalRoleId	Opt.	String	Approval role ID.
approvalRoleName	Opt.	String	Approval role name.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "status": "0",
    "abnormalReason": "0",
    "approvalFlowType": "4",
    "approvalFlowCode": "20231212121",
    "applicantTime": "2023-12-13T12:33:33+08:00",
    "applicantName": "Mike",
    "applicantId": "1",
    "userName": "admin",
    "userId": "1",
    "isAutoApproval": 0,
    "approvalFlowNode": [
      {
        "id": "1",
        "name": "Start"
      }
    ]
  }
}
```

```
{
    "nodeId": "1",
    "nodeStatus": "0",
    "approverType": "1",
    "approverName": "Sara",
    "approvalComment": "pass",
    "approvalTime": "2023-12-21T11:20:20+08:00",
    "approvalRole": [
        {
            "approvalRoleId": "1",
            "approvalRoleName": "manager"
        }
    ]
}
```

5.7.21 POST /artemis/api/visitor/v1/baseConfig/get

Get the basic configuration information of visitor service.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/visitor/v1/baseConfig/get](https://[serverAddress]:[serverPort]/artemis/api/visitor/v1/baseConfig/get)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >

Request Example

```
{}
```

Response Parameters

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

Parameter	Req. or Opt.	Data Type	Description
			to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	See details in baseConfig .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "baseConfig": {
      "qRCodeMode":0,
      "qRCodeValidity":10,
      "validityUnit" : 0
    }
  }
}
```

5.7.22 POST /artemis/api/visitor/v1/baseConfig/update

Edit the basic configuration information of visitor service.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/visitor/v1/baseConfig/update](https://[serverAddress]:[serverPort]/artemis/api/visitor/v1/baseConfig/update)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
baseConfig	Req.	Object	Body	See details in baseConfig .

Request Example

```
{
  "baseConfig": {
    "qRCodeMode": 0,
    "qRCodeValidity": 10,
    "validityUnit": 0
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

5.7.23 POST /artemis/api/visitor/v1/visitor/qr/get

Get the visitor QR code.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/visitor/v1/visitor/qr/get](https://[serverAddress]:[serverPort]/artemis/api/visitor/v1/visitor/qr/get)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
visitorId	Req.	String	Body	Visitor ID. The maximum length is 64.

Request Example

```
{
  "visitorId": "125"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	qRCodeInfo, the QR code information object.

qRCodeInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
qrCodeImage	Opt.	String	Visitor QR code, encoded by Base64
validDuration	Opt.	Number	Validity, unit: minute, valid only when it is a dynamic QR code.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "qRCodeInfo": {
      "qrCodeImage": "iVBORw0KGgoAAAQMAAAAFVwwBAAA",
      "validDuration" : 60
    }
  }
}
```

5.8 Vehicle and Parking API

Here provides APIs for vehicle management and vehicle parking management.

5.8.1 POST /artemis/api/pms/v1/image

Get vehicle pictures from the searched vehicle passing records by picture URL.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/pMS/v1/IMage](https://[serverAddress]:[serverPort]/arTEMIS/api/pMS/v1/IMage)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
domainId	Opt.	String	Header	Domain ID, which is used in the streaming URL and consists of up to 16 characters: 0-LAN, 1-WAN. If this field is not configured, the value will be determined by the request.
picUri	Req.	String	Body	Picture data encoded by Base64, up to 256 characters.

Request Example

```
{
  "picUri": "0B4E92A30AF914C1285613A4FBD9F761F"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	String	Binary picture data in the response.

Response Example

```
HTTP/1.1
Content-Type:image/jpeg;charset=utf-8
Date:YourDate
Content-Length:image_length
```

[Picture Data]

5.8.2 POST /artemis/api/pms/v1/crossRecords/page

Set search conditions (e.g., camera ID, license plate number, vehicle owner name, etc.) to search for vehicle passing records, and the search results will be returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/pMS/v1/crossREcords/page](https://[serverAddress]:[serverPort]/arTEMIS/api/pMS/v1/crossREcords/page)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
cameraIndexCode	Req.	String	Body	Camera ID, which consists of up to 64 characters.
plateNo	Opt.	String	Body	License plate number, which consists of up to 16 characters.
ownerName	Opt.	String	Body	Vehicle owner name, which consists of up to 64 characters.
contact	Opt.	String	Body	Contact number of vehicle owner, which consists of up to 32 characters.
startTime	Req.	String	Body	Start time of search, which is in ISO 8601 standard time format: yyyy-MM-ddTHH:mm:ss +current zone, e.g., 2018-07-26T15:00:00+08:00. And the time consists of up to 64 characters.
endTime	Req.	String	Body	End time of search, which is in ISO 8601 standard time format: yyyy-MM-ddTHH:mm:ss +current zone, e.g., 2018-07-

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				26T15:00:00+08:00. And the time consists of up to 64 characters.
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
sortField	Opt.	String	Body	Sorting field. Now only the field "PassTime" is supported to be sorted on.
orderType	Opt.	Number	Body	Sorting type: 0 (ascending), 1 (descending, default value). The maximum length is 4.



Note

The days between start time and end time should be no more than 31 days.

Request Example

```
{
  "cameraIndexCode": "1",
  "plateNo": "a123456",
  "ownerName": "aaa",
  "contact": "123",
  "startTime": "2018-07-26T15:00:00+08:00",
  "endTime": "2018-07-26T16:00:00+08:00",
  "pageNo": 1,
  "pageSize": 10,
  "sortField": "PassTime",
  "orderType": 1
}
```

Response Parameters

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

Parameter	Req. or Opt.	Data Type	Description
			to <u>Status or Error Code</u> for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to <u>Status or Error Code</u> for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Vehicle passing record list.
list[0]	Opt.	Object	Information of a vehicle passing record in the list. See details in <u>PassVehicleRecord</u> .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total":1,
    "pageNo":1,
    "pageSize":15,
    "list": [
      {
        "crossRecordSyscode": "74554754035654645",
        "cameraIndexCode": "1",
        "plateNo": "a123456",
        "ownerName": "aaa",
        "contact": 123,
        "vehicleType": 1,
        "vehiclePicUri": "/pic?=d7ei703i10cd*73a-d5108a--22cd0c9d6592aiid=",
        "crossTime": "2018-07-26T15:00:00+08:00",
        "createTime": "2018-07-26T15:00:00+08:00",
        "vehicleBrand": 5,
        "vehicleType": 2,
        "vehicleColor": 3,
        "country": 5,
        "vehicleDirectionType": 1,
      }
    ]
  }
}
```

```

    "ownerName": "alan liu",
    "contact": "6879095",
    "vehicleSpeed": 50
  }
]
}
}

```

5.8.3 POST /artemis/api/vehicle/v1/parkinglot/list

Get the parking lot list.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/vehicle/v1/parkinglot/list](https://[serverAddress]:[serverPort]/arTEMIS/api/vehicle/v1/parkinglot/list)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Req.	Object	Response data details.
total	Req.	Number	The number of parking lots, the maximum length is 10 characters.

Parameter	Req. or Opt.	Data Type	Description
list	Req.	Array	List of parking lots.
list[0]	Req.	<i>ParkingLotInfo</i>	Parking lot information.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 3,
    "list": [
      {
        "parkingLotIndexCode": "1",
        "parkingLotName": "parkinglot",
        "parentParkingLotIndexCode": "-1",
        "totalSpaceNum": 1000,
        "freeSpaceNum": 0,
        "totalPermanentSpaceNum": 500,
        "freePermanentSpaceNum": 202,
        "maxParkingTime": 9
      },
      {
        "parkingLotIndexCode": "2",
        "parkingLotName": "parking lot 2",
        "parentParkingLotIndexCode": "-1",
        "totalSpaceNum": 600,
        "freeSpaceNum": 600,
        "totalPermanentSpaceNum": 500,
        "freePermanentSpaceNum": 500,
        "maxParkingTime": 7
      },
      {
        "parkingLotIndexCode": "4",
        "parkingLotName": "parking lot 3",
        "parentParkingLotIndexCode": "2",
        "totalSpaceNum": 2,
        "freeSpaceNum": 2,
        "totalPermanentSpaceNum": -1,
        "freePermanentSpaceNum": -1,
        "maxParkingTime": -1
      }
    ]
  }
}
```

5.8.4 POST /artemis/api/vehicle/v1/floor/list

Get the floor list of the specified parking lot.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/vehicle/v1/floor/list](https://[serverAddress]:[serverPort]/arTEMIS/api/vehicle/v1/floor/list)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? < >
parkingLotIndexCode	Opt.	String	Body	Parking lot ID, the maximum length is 1024 characters. Information about all parking lots will be returned if no ID is specified.

Request Example

```
{
  "parkingLotIndexCode": "1"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.

Parameter	Req. or Opt.	Data Type	Description
data	Opt.	Object	Response data details.
total	Req.	Number	The number of floors, the maximum length is 10 characters.
list	Req.	Array	Floor information list.
list[0]	Req.	<i>FloorInfo</i>	Floor information.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 3,
    "list": [
      {
        "floorIndexCode": "12",
        "floorName": "666",
        "parkingLotIndexCode": "1",
        "parkingLotName": "xxxx"
      },
      {
        "floorIndexCode": "13",
        "floorName": "111",
        "parkingLotIndexCode": "1",
        "parkingLotName": "xxxx"
      },
      {
        "floorIndexCode": "14",
        "floorName": "122",
        "parkingLotIndexCode": "1",
        "parkingLotName": "xxxx"
      }
    ]
  }
}
```

5.8.5 POST /artemis/api/vehicle/v1/floor/overview

Get the occupancy of one or multiple floors of the parking lot, including the total number of parking spaces and the number of vacant parking spaces.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/vehicle/v1/floor/overview](https://[serverAddress]:[serverPort]/artemis/api/vehicle/v1/floor/overview)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
parkingLotIndexCode	Opt.	String	Body	Parking lot ID, the maximum length is 1024 characters. Information of all parking lots will be returned if no parking lot ID is specified.
floorIndexCode	Opt.	String	Body	Floor ID, the maximum length is 1024 characters. Information of all floors will be returned if no floor ID is specified.

Request Example

```
{
  "parkingLotIndexCode": "1",
  "floorIndexCode": "14"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Req.	Object	Response data details.

Parameter	Req. or Opt.	Data Type	Description
totalSpaceNum	Req.	Number	Total number of parking spaces, the maximum length is 10 characters.
freeSpaceNum	Req.	Number	Number of vacant parking spaces, the maximum length is 10 characters.
total	Req.	Number	Total number of floors, the maximum length is 10 characters.
list	Req.	Array	List of floor overview.
list[0]	Req.	<u>FloorOverViewInfo</u>	Floor overview.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 1,
    "totalSpaceNum": 50,
    "freeSpaceNum": 48,
    "list": [
      {
        "floorIndexCode": "14",
        "floorName": "122",
        "parkingLotIndexCode": 1,
        "totalSpaceNum": 50,
        "freeSpaceNum": 48,
        "spaceTypeOverView": [
          {
            "typeIndexCode": "1",
            "typeName": "general",
            "typeColor": "#FFFF00",
            "totalSpaceNum": 6,
            "freeSpaceNum": 4
          },
          {
            "typeIndexCode": "2",
            "typeName": "allow",
            "typeColor": "#00FF00",
            "totalSpaceNum": 6,
            "freeSpaceNum": 6
          },
          {
            "typeIndexCode": "3",
            "typeName": "forbid",
            "typeColor": "#0000FF",
            "totalSpaceNum": 8,
            "freeSpaceNum": 8
          }
        ]
      }
    ]
  }
}
```

```

        }]
    }
}
}
```

5.8.6 POST /artemis/api/vehicle/v1/floor/parkingspace/status

Get the real-time status of all parking spaces on the specified floor.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/vehicle/v1/floor/parkingspace/status](https://[serverAddress]:[serverPort]/artemis/api/vehicle/v1/floor/parkingspace/status)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
floorIndexCode	Req.	String	Body	Floor ID, the maximum length is 1024 characters.

Request Example

```
{
  "floorIndexCode": "1"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for

Parameter	Req. or Opt.	Data Type	Description
			details. Each description can contain up to 256 characters.
data	Req.	Object	Response data details.
total	Req.	Number	Total number of parking spaces, the maximum length is 10 characters.
list	Req.	Array	List of parking spaces.
list[0]	Req.	ParkingSpaceInfo	Information of a parking space.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 3,
    "list": [
      {
        "spaceIndexCode": "1",
        "floorIndexCode": "1",
        "spaceType": 3,
        "serial": "1",
        "status": 1,
        "plateNumber": "",
        "createTime": "2021-07-26T19:58:12+08:00",
        "duration": 16,
        "parkingImageUrl": "Vsm://PHQG#20210726#20210726_193035917.d:104558170:490700",
        "platenumberImageUrl": ""
      },
      {
        "spaceIndexCode": "2",
        "floorIndexCode": "1",
        "spaceType": 3,
        "serial": "2",
        "status": 1,
        "plateNumber": "",
        "createTime": "2021-07-26T11:23:36+08:00",
        "duration": 30892,
        "parkingImageUrl": "Vsm://PHQG#20210726#20210726_112325847.d:1941072:537216",
        "platenumberImageUrl": ""
      },
      {
        "spaceIndexCode": "3",
        "floorIndexCode": "1",
        "spaceType": 3,
        "serial": "3",
        "status": 1,
        "plateNumber": "",
        "createTime": "2021-07-26T11:23:36+08:00",
        "duration": 30892,
        "parkingImageUrl": "Vsm://PHQG#20210726#20210726_112325847.d:1941072:537216",
        "platenumberImageUrl": ""
      }
    ]
  }
}
```

```

    "plateNumber":"",
    "createTime":"2021-07-26T13:41:15+08:00",
    "duration":22633,
    "parkingImageUrl":"Vsm://PHQG#20210726#20210726_131648673.d:129672100:456972",
    "platenumberImageUrl":""
}
}
}

```

5.8.7 POST /artemis/api/vehicle/v1/parkinglot/passageway/record

Get the vehicle passing records of the specified parking lot.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/vehicle/v1/parkinglot/passageway/record](https://[serverAddress]:[serverPort]/artemis/api/vehicle/v1/parkinglot/passageway/record)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? < >
pageIndex	Req.	Number	Body	The current page No., which is between 1 and 2147483647. The maximum length is 10 characters.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500. The maximum length is 3 characters.
queryInfo	Req.	Object	Body	Search condition.
parkingLotIndexCode	Req.	String	Body	Parking lot ID, the maximum length is 1024 characters.
beginTime	Req.	String	Body	Start time in ISO 8601 format of search, which is represented by "yyyy-MM-ddTHH:mm:ss +current time zone", e.g., "2018-07-26T15:00:00+08:00".

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				The maximum length is 32 bytes.
endTime	Req.	String	Body	End time in ISO 8601 format of search, which is represented by "yyyy-MM-ddTHH:mm:ss +current time zone", e.g., "2018-07-26T15:00:00+08:00". The maximum length is 32 bytes.
ownerName	Opt.	String	Body	Vehicle owner name, the maximum length is 32 characters.
plateLicense	Opt.	String	Body	License plate number, the maximum length is 32 characters.
directionType	Opt.	Number	Body	Direction: -1 (all), 1 (entry), 2 (exit).
allowResult	Opt.	Number	Body	Whether the passing is allowed: -1 (all), 1 (allowed), 2 (not allowed).
sortField	Opt.	String	Body	Sorting field. Now only the field "EnterTime" is supported to be sorted on.
orderType	Opt.	Number	Body	Sorting type: 0 (ascending), 1 (descending, default value). The maximum length is 4.

Request Example

```
{
  "pageIndex": 1,
  "pageSize": 10,
  "queryInfo": {
    "parkingLotIndexCode": "1",
    "beginTime": "2021-07-21T00:00:00+08:00",
    "endTime": "2021-07-21T23:59:59+08:00",
    "ownerName": "alan",
    "plateLicense": "BK07WCU",
    "directionType": -1,
```

```

    "allowResult": -1,
    "sortField": "EnterTime",
    "orderType": 1
  }
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Req.	Object	Response data details.
total	Req.	Number	Total number of records, the maximum length is 10 characters.
pageIndex	Req.	Number	The current page No., the maximum length is 10 characters.
pageSize	Req.	Number	Number of records on each page, the maximum length is 4 characters.
list	Req.	Array	List of vehicle passing records.
list[0]	Req.	PassingRecordInfo o	Information about a vehicle passing record.

Response Example

```
{
  "code":"0",
  "msg":"Success",
  "data":{
    "total":3,
    "pageIndex":1,
    "pageSize":3,
    "list":[{
      "guid":"0F388D71AFA346CABCBA4FB91312861B",
      "parkingLotInfo":{
        "id":1,
        "name":"Main Lot"
      }
    }]
  }
}
```

```

"parkingLotIndexCode":"1",
"parkingLotName":"parking lot33"
},
"passagewayInfo":{
"passagewayIndexCode":"1",
"passagewayName":"Default Entrance & Exit01"
},
"laneInfo":{
"laneIndexCode":"1",
"laneName":"entrance 1",
"direction":1
},
"personInfo":{
"cardNum":"",
"ownerName":"",
"ownerPhoneNum":""
},
"carInfo":{
"plateLicense":"BJ08FNV",
"carType":3,
"imageUrl":"Vsm://PHQG#20210721#20210721_232955105.d:198227798:102096",
"enterTime":"2021-07-21T23:59:57+08:00",
"exitTime":""
},
"allowType":3,
"allowResult":2
},
{
"guid":"31775DB5BF1940F681D03FD7DBDA623E",
"parkingLotInfo":{
"parkingLotIndexCode":"1",
"parkingLotName":"parking lot33"
},
"passagewayInfo":{
"passagewayIndexCode":"1",
"passagewayName":"Default Entrance & Exit01"
},
"laneInfo":{
"laneIndexCode":"1",
"laneName":"entrance 1",
"direction":1
},
"personInfo":{
"cardNum":"",
"ownerName":"",
"ownerPhoneNum":""
},
"carInfo":{
"plateLicense":"N500GES",
"carType":3,
"imageUrl":"Vsm://PHQG#20210721#20210721_232955105.d:198025042:100636",
"enterTime":"2021-07-21T23:59:50+08:00",
}

```

```
        "ExitTime":"",
    },
    "allowType":3,
    "allowResult":2
},
{
    "guid":"4EE0D343B9D94DA58FA335D2506DC290",
    "parkingLotInfo":{
        "parkingLotIndexCode":"1",
        "parkingLotName":"parking lot33"
    },
    "passagewayInfo":{
        "passagewayIndexCode":"1",
        "passagewayName":"Default Entrance & Exit01"
    },
    "laneInfo":{
        "laneIndexCode":"1",
        "laneName":"entrance 1",
        "direction":1
    },
    "personInfo":{
        "cardNum":"",
        "ownerName":"",
        "ownerPhoneNum":""
    },
    "carInfo":{
        "plateLicense":"VE54CTY",
        "carType":3,
        "ImageUrl":"Vsm://PHQG#20210721#20210721_232955105.d:197822794:101588",
        "EnterTime":"2021-07-21T23:59:44+08:00",
        "ExitTime":""
    },
    "allowType":3,
    "allowResult":2
}]
}
```

5.8.8 POST /artemis/api/vehicle/v1/parkingspace/record

Get the vehicle parking records.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/vehicle/v1/parkingspace/record](https://[serverAddress]:[serverPort]/artemis/api/vehicle/v1/parkingspace/record)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageIndex	Req.	Number	Body	The current page No., which is between 1 and 2147483647. The maximum length is 10 characters.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500. The maximum length is 3 characters.
queryInfo	Req.	Object	Body	Search condition.
parkingLotIndexCode	Opt.	String	Body	Parking lot ID, the maximum length is 1024 characters.
floorIndexCode	Opt.	String	Body	Floor ID, the maximum length is 1024 characters.
beginTime	Req.	String	Body	Start time in ISO 8601 format of search, which is represented by "yyyy-MM-ddTHH:mm:ss +current time zone", e.g., "2018-07-26T15:00:00+08:00". The maximum length is 32 bytes.
endTime	Req.	String	Body	End time in ISO 8601 format of search, which is represented by "yyyy-MM-ddTHH:mm:ss +current time zone", e.g., "2018-07-26T15:00:00+08:00". The maximum length is 32 bytes.
spaceSerial	Opt.	String	Body	Space serial No., the maximum length is 32 characters.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
plateLicense	Opt.	String	Body	License plate number, the maximum length is 32 characters.
statusType	Opt.	Number	Body	Parking status: 0 (parking), 1 (exited), -1 (all).
sortField	Opt.	String	Body	Sorting field. Now only the field "OccurTime" is supported to be sorted on.
orderType	Opt.	Number	Body	Sorting type: 0 (ascending), 1 (descending, default value). The maximum length is 4.

Request Example

```
{
  "pageIndex":1,
  "pageSize":10,
  "queryInfo":{
    "parkingLotIndexCode":"1",
    "floorIndexCode":"1",
    "beginTime":"2021-07-21T00:00:00+08:00",
    "endTime":"2021-07-21T23:59:59+08:00",
    "spaceSerial":"1",
    "plateLicense":"KY56NKD",
    "statusType":0,
    "sortField": "OccurTime",
    "orderType": 1
  }
}
```

Response Parameters

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

Parameter	Req. or Opt.	Data Type	Description
			Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to <u>Status or Error Code</u> for details. Each description can contain up to 256 characters.
data	Req.	Object	Response data details.
total	Req.	Number	Total number of records, the maximum length is 10 characters.
pageIndex	Req.	Number	The current page No., the maximum length is 10 characters.
pageSize	Req.	Number	Number of records on each page, the maximum length is 4 characters.
list	Req.	Array	List of vehicle parking records.
list[0]	Req.	ParkingRecordInfo	Information about a vehicle parking record.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 3,
    "pageIndex": 1,
    "pageSize": 3,
    "list": [
      {
        "guid": "30726",
        "parkingLotIndexCode": "1",
        "parkingLotName": "parkinglot",
        "floorIndexCode": "1",
        "floorName": "F3",
        "parkingSpaceSerial": "11",
        "plateLicense": "ARB209KE",
        "parkingStatusType": 0,
        "occurTime": "2021-07-22T23:59:51+08:00"
      },
      {
        "guid": "30725",
        "parkingLotIndexCode": "1",
        "parkingLotName": "parkinglot",
        "floorIndexCode": "1",
        "floorName": "F3",
        "parkingSpaceSerial": "12",
        "plateLicense": "ARB209KF",
        "parkingStatusType": 0,
        "occurTime": "2021-07-22T23:59:51+08:00"
      }
    ]
  }
}
```

```

    "floorIndexCode":"1",
    "floorName":"F3",
    "parkingSpaceSerial":"11",
    "plateLicense":"unknown",
    "parkingStatusType":0,
    "occurTime":"2021-07-22T23:59:41+08:00"
},
{
    "guid":30721,
    "parkingLotIndexCode":"1",
    "parkingLotName":"parkinglot",
    "floorIndexCode":"1",
    "floorName":"F3",
    "parkingSpaceSerial":"11",
    "plateLicense":"unknown",
    "parkingStatusType":0,
    "occurTime":"2021-07-22T23:59:18+08:00"
}
}
}

```

5.8.9 POST /artemis/api/vehicle/v1/parkingfee/calculate

Calculate the parking fee based on parking information (parking start time, total parking time, parking fee rule type, parking fee rule ID, parking fee rule name) for a specific license plate No. from exact match.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/vehicle/v1/parkingfee/calculate](https://[serverAddress]:[serverPort]/artemis/api/vehicle/v1/parkingfee/calculate)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
plateLicense	Opt.	String	Body	License plate number, the maximum length is 32 characters. Either plateLicense or cardNum is required.
cardNum	Opt.	String	Body	Card number, the maximum length is 32 characters. Either

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				plateLicense or cardNum is required.

Request Example

```
{
  "plateLicense" : "2700H"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details).
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details.
data	Req.	Object	See details in ParkingFeeCalculate .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "plateLicense": "2700H",
    "parkingInTime": "2022-03-30T11:39:35+08:00",
    "parkingDuration": 1134404,
    "feeRuleType": 1,
    "feeRuleIndexCode": "1",
    "feeRuleName": "rule1",
    "fee": "10.00"
  }
}
```

5.8.10 POST /artemis/api/vehicle/v1/parkingfee/confirm

Confirm the payment of parking fee and allow exit for a specific license plate No. from exact match. Payment on exit will be made via booth, and the vehicle is allowed to pass the barrier gate once it is recognized by camera; payment before exit will be made via toll center, and if the final parking time exceeded the paid duration, the extra fee will also be charged on exit via booth.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/vehicle/v1/parkingfee/confirm](https://[serverAddress]:[serverPort]/artemis/api/vehicle/v1/parkingfee/confirm)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? < >
plateLicense	Req.	String	Body	License plate number, the maximum length is 32 characters. Either plateLicense or cardNum is required.
cardNum	Opt.	String	Body	Card number, the maximum length is 32 characters. Either plateLicense or cardNum is required.
immediatelyLeave	Req.	Number	Body	Whether the vehicle is leaving the parking lot immediately: 0-no, 1-yes.
fee	Req.	String	Body	Parking fee. The maximum length is 32.

Request Example

```
{
  "plateLicense" : "2700H",
  "immediatelyLeave" : 0,
  "fee" : "200"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details).
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details.
data	Req.	Object	See details in ParkingFeeConfirm .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "fee": "200.00",
    "feeTime": "2022-04-12T14:48:11+08:00"
  }
}
```

5.8.11 POST /artemis/api/vehicle/v1/vehicle/blocklist/add

Add a vehicle to the blocklist.

Request URL

[https://\[serverAddress\]:\[serverPort\]/api/vehicle/v1/vehicle/blocklist/add](https://[serverAddress]:[serverPort]/api/vehicle/v1/vehicle/blocklist/add)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < > .
plateLicense	Req.	String	Body	License plate number, which consists of 1 to 32 characters,

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				but cannot contain special characters like '/ \ : * ? " < > .
personGivenName	Opt.	String	Body	Person's given name, which consists of 1 to 16 characters, but cannot contain special characters like '/ \ : * ? " < > .
personFamilyName	Opt.	String	Body	Person's family name, which consists of 1 to 16 characters, but cannot contain special characters like '/ \ : * ? " < > .
phoneNo	Opt.	String	Body	Contact number, which can contain numbers from 0-9, and special characters + and -. The maximum length is 32.
description	Opt.	String	Body	Vehicle description, which consists of 1 to 128 characters, but cannot contain special characters like '/ \ : * ? " < >
effectiveDate	Req.	String	Body	Start time of blocking, 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".
expiredDate	Req.	String	Body	End time of blobking, 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".

Request Example

```
{
  "plateLicense": "123",
  "personGivenName": "KaiRui",
  "personFamilyName": "Jin",
  "phoneNo": "1-1807894561",
```

```

"description":"xxxxxx",
"effectiveDate":"2022-03-21T00:00:00+08:00",
"expiredDate":"2023-03-25T23:59:59+08:00"
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details).
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

5.8.12 POST /artemis/api/vehicle/v1/vehicle/blocklist/get

Search the vehicle blocklist. Advanced search can be performed by specifying the license plate number, family name of the owner, given name of the owner, contact number of the owner, or vehicle description as the keyword. Fuzzy search is supported. If no search condition specified, information of all vehicles will be returned by page.

Request URL

[https://\[serverAddress\]:\[serverPort\]/api/vehicle/v1/vehicle/blocklist/get](https://[serverAddress]:[serverPort]/api/vehicle/v1/vehicle/blocklist/get)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < > .
pageIndex	Req.	Number	Body	The current page No., which is between 1 and 2147483647. The maximum length is 10 characters.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500. The maximum length is 3 characters.
keyWords	Opt.	String	Body	The license plate number, family name of the owner, given name of the owner, contact number of the owner, or vehicle description. Fuzzy search is supported. If no search condition specified, information of all vehicles will be returned by page.

Request Example

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

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to <u>Status or Error Code</u> for details).
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the

Parameter	Req. or Opt.	Data Type	Description
			code, refer to <u>Status or Error Code</u> for details.
data	Req.	Object	See details in PageInfo.

PageInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No., which is between 1 and 2147483647.
pageSize	Opt.	Number	Number of records on each page, which is between 1 and 500.
list	Opt.	object	See details in <u>ForbiddenVehicleInfo</u> .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 1,
    "pageIndex": 1,
    "pageSize": 10,
    "list": [
      {
        "vehicleIndexCode": "1",
        "plateLicense": "123",
        "personGivenName": "KaiRui",
        "personFamilyName": "Jin",
        "phoneNo": "1-1807894561",
        "description": "xxxxxx",
        "effectiveDate": "2022-03-21T00:00:00+08:00",
        "expiredDate": "2023-03-25T23:59:59+08:00"
      }
    ]
  }
}
```

5.8.13 POST /artemis/api/vehicle/v1/vehicle/blocklist/modify

Edit the vehicle in the blocklist.

Request URL

[https://\[serverAddress\]:\[serverPort\]/api/vehicle/v1/vehicle/blocklist/modify](https://[serverAddress]:[serverPort]/api/vehicle/v1/vehicle/blocklist/modify)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
vehicleIndexCode	Req.	String	Body	Blocklist vehicle ID, which consists of up to 32 characters.
plateLicense	Req.	String	Body	License plate number, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < > .
personGivenName	Opt.	String	Body	Person's given name, which consists of 1 to 16 characters, but cannot contain special characters like '/ \ : * ? " < > .
personFamilyName	Opt.	String	Body	Person's family name, which consists of 1 to 16 characters, but cannot contain special characters like '/ \ : * ? " < >
phoneNo	Opt.	String	Body	Contact number, which can contain numbers from 0-9, and special characters + and -. The maximum length is 32.
description	Opt.	String	Body	Vehicle description, which consists of 1 to 128 characters, but cannot contain special characters like '/ \ : * ? " < >
effectiveDate	Req.	String	Body	Start time of blocking, in ISO 8601 format, which is represented by "yyyy- MM- ddTHH:mm:ss+current time

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				zone", e.g., "2018-07-26T15:00:00 + 08:00".
expiredDate	Req.	String	Body	End time of blobking, 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".

Request Example

```
{
    "vehicleIndexCode" : "1",
    "plateLicense": "9999",
    "personGivenName": "KaiRui",
    "personFamilyName": "Jin",
    "phoneNo": "1-1807894561",
    "description": "xxxxxx",
    "effectiveDate": "2022-03-21T00:00:00+08:00",
    "expiredDate": "2023-03-25T23:59:59+08:00"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details).
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details.

Response Example

```
{
    "code": "0",
    "msg": "Success",
    "data": ""
}
```

5.8.14 POST /artemis/api/vehicle/v1/vehicle/blocklist/delete

Delete the vehicle from the blocklist.

Request URL

[https://\[serverAddress\]:\[serverPort\]/api/vehicle/v1/vehicle/blocklist/delete](https://[serverAddress]:[serverPort]/api/vehicle/v1/vehicle/blocklist/delete)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? < >
vehicleIndexCodes	Req.	String	Body	ID list of vehicles from blocklist, in "1,2,3,4,5" format, which consists of up to 32 characters.

Request Example

```
{
    "vehicleIndexCodes" : "1,2,3"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details).
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details.

Response Example

```
{
    "code": "0",
    "msg": "Success",
```

```
    "data": ""  
}
```

5.9 Access Control API

Here provides APIs for access point control, access record search, applying person information, getting access control event picture, and so on.

5.9.1 POST /artemis/api/acs/v1/door/doControl

Control the door to open, close, remain open, and remain closed by door ID.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/acs/v1/door/doControl](https://[serverAddress]:[serverPort]/artemis/api/acs/v1/door/doControl)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
doorIndexCodes	Req.	List of String	Body	Access point ID, and up to 10 access points can be obtained.
controlType	Req.	Number	Body	Control types: 0-remain open, 1-close, 2-open, 3-remain closed.
controlDirection	Req.	Number	Body	Door control direction: 0-entry, 1-exit. For regular doors, it is only 0; for barrier gates, both values are available.

Request Example

```
{  
    "doorIndexCodes":["1","2"],  
    "controlType":3,  
    "controlDirection":0,  
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Returned status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code contains up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description contains up to 256 characters.
data	Opt.	Array	Information list of access point control results.
data[0]	Opt.	Object	Information of an access point control result. Refer to DoorControlResult for details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": [
    [
      {
        "doorIndexCode": "1",
        "controlresultCode": 0,
        "controlResultDesc": "Success"
      },
      {
        "doorIndexCode": "2",
        "controlresultCode": 0,
        "controlResultDesc": " Success "
      }
    ]
  }
}
```

5.9.2 POST /artemis/api/acs/v1/door/events

Set search conditions (time, person name, access point ID, event type, etc.) to search for access records (access by card, face, fingerprint, and so on), and the search results (authentication method, card information, face information, fingerprint information, etc.) will be returned by page.

Request URL

`https://[serverAddress]:[serverPort]/artemis/api/acs/v1/door/events`

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like ' / \ : * ? " < >
startTime	Req.	String	Body	Start time of search, which is in ISO 8601 standard time format: yyyy-MM-ddTHH:mm:ss+current zone, e.g., 2018-07-26T15:00:00+08:00. And the time consists of up to 64 characters.
endTime	Req.	String	Body	End time of search, which is in ISO 8601 standard time format: yyyy-MM-ddTHH:mm:ss+current zone, e.g., 2018-07-26T15:00:00+08:00. And the time consists of up to 64 characters.
eventType	Req.	Number	Body	Event type code, which is a decimal integer, refer to <u>Event Types or Alarm Categories</u> for details.
personName	Opt.	String	Body	Person name, which consists of up to 32 characters, but cannot contain special characters like ' / \ : * ? " < > Parameters (personName , personId , and personCode) are mutually exclusive, and only one of them is allowed .
personId	Opt.	String	Body	Person ID, which consists of up to 32 characters.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				Parameters (personName , personId , and personCode) are mutually exclusive, and only one of them is allowed .
personCode	Opt.	String	Body	Person code, which consists of up to 16 characters, and only digits and letters are allowed. Parameters (personName , personId , and personCode) are mutually exclusive, and only one of them is allowed .
personType	Opt.	Number	Body	Person type: -1 (all), 0 (employee), 1 (visitor).
doorIndexCodes	Req.	String	Body	Access point ID, and up to 10 access points can be obtained.
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
temperatureStatus	Opt.	Number	Body	Temperature status: 0-unknown, 1-normal, 2-abnormal.
wearMaskStatus	Opt.	Number	Body	Wearing mask or not: 0-unknown, 1-yes, 2-no.
sortField	Opt.	String	Body	Sorting field, which currently only supports sorting one field by "SwipeTime" (sorted by card-swiping time).
orderType	Opt.	Number	Body	Order type, which consists of up to 4 characters: 0-ascending order, 1-descending order, 1 by default.

**Note**

- The days between start time and end time should be no more than 31 days.
- At least one of the following parameters is required: **eventType**, **personName**, **personId**, and **personCode**.

Request Example

```
{
    "startTime": "2019-08-26T15:00:00+08:00",
    "endTime": "2019-09-16T15:00:00+08:00",
    "eventType": 197151,
    "personName": "a",
    "doorIndexCodes": [
        "482"
    ],
    "pageNo": 1,
    "pageSize": 10,
    "temperatureStatus": -1,
    "maskStatus": -1,
    "sortField": "SwipeTime",
    "orderType": 1
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.

Parameter	Req. or Opt.	Data Type	Description
list	Opt.	Array	Card swiping or access record list.
list[0]	Opt.	Object	Information of a card swiping record in the list. See details in PersonInOutEvents .

Response Example

```
{
  "code":"0",
  "msg":"Success",
  "data":{
    "pageSize":100,
    "pageNo":1,
    "total":1,
    "list":[
      {
        "eventId":"58689546546576576215475",
        "eventType":"197151",
        "eventTime":"2018-08-10 20:00:00",
        "personId":"1",
        "personName":"a",
        "doorName":"xxxDoor",
        "doorIndexCode":"1"
      }
    ]
  }
}
```

5.9.3 POST /artemis/api/acs/v1/event/pictures

Get pictures of access control events.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/acs/v1/event/pictures](https://[serverAddress]:[serverPort]/artemis/api/acs/v1/event/pictures)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
domainId	Opt.	Number	Header	Domain name of pictures to be obtained: 0-LAN, 1-WAN.
picUri	Req.	String	Body	Picture URI (relative path). The maximum length is 512 bytes.

Request Example

```
{
  "picUri": "OB4E92A30AF914C1285613A4FBD9F761F"
}
```

Response Example

```
"data:image/jpeg;base64,/9j/4AAQSkzFYSEbxpSTWII7lb2dtYSUW4zd9E/K/U+h9Ls49L0y20yFyy29ukSs3UhVAB/
SigyEjFFG5+2RioRUVOP/2Q=="
"data:image/jpeg;base64,/9j/4AAQSkzFYSEbxpSTWII7lb2dtYSUW4zd9E/K/U+h9Ls49L0y20yFyy29ukSs3UhVAB/
SigyEjFFG5+2RioRUVOP/2Q=="
```

5.9.4 POST /artemis/api/acs/v1/privilege/group

Get access level list.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/acs/v1/privilege/group](https://[serverAddress]:[serverPort]/artemis/api/acs/v1/privilege/group)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483648.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
type	Req.	Number	Body	Access level type value: 1 (access control), 2 (visitor).

Request Example

```
{
  "pageNo": 1,
  "pageSize": 10,
  "type": 1
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	PageInfo	See details in the table below.

Table 5-19 PageInfo

Parameter	Req. or Opt.	Data Type	Description
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	PrivilegeGroupInf o []	Information list of access levels.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 2,
    "pageNo": 1,
    "pageSize": 10,
    "list": [
      {
        "privilegeGroupId": "2",
        "privilegeGroupName": "234",
        "description": "",
        "timeSchedule": {
          "indexCode": "1",
          "name": ""
        }
      },
      {
        "privilegeGroupId": "1",
        "privilegeGroupName": "123",
        "description": "",
        "timeSchedule": {
          "indexCode": "1",
          "name": ""
        }
      }
    ]
  }
}
```

5.9.5 POST /artemis/api/acs/v1/privilege/group/add

Add the access level list.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/acs/v1/privilege/group/add](https://[serverAddress]:[serverPort]/artemis/api/acs/v1/privilege/group/add)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
list	Req.	<i>PrivilegeGroupInfo []</i>	Body	List of access levels to be added.
type	Req.	Number	Body	Access level type: 1 (access control), 2 (visitor).

Request Example

```
{
  "type": 1,
  "list": [
    {
      "privilegeGroupId": "1",
      "privilegeGroupName": "aaa",
      "description": "aaa",
      "timeSchedule": {
        "indexCode": "1"
      },
      "ElementList": [
        {
          "ID": 1
        }
      ]
    }
  ]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to <i>Status or Error Code</i> for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to <i>Status or Error Code</i> for details. Each description can contain up to 256 characters.
data	Opt.	PageInfo	Information list of access levels. See the table below for details.

Table 5-20 PageInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
list	Opt.	<u>PrivilegeGroupInfo</u> o []	Information list of access levels.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "list": [
      {
        "privilegeGroupId": "2",
        "privilegeGroupName": "234",
        "description": "",
        "timeSchedule": {
          "indexCode": "1",
          "name": ""
        },
        "ElementList": {
          "ID": 0,
          "BaseInfo": {
            "ElementType": 0,
            "Name": "",
            "AreaName": "",
            "AreaID": 0
          }
        }
      },
      {
        "privilegeGroupId": "1",
        "privilegeGroupName": "123",
        "description": "",
        "timeSchedule": {
          "indexCode": "1",
          "name": ""
        },
        "ElementList": {
          "ID": 0,
          "BaseInfo": {
            "ElementType": 0,
            "Name": "",
            "AreaName": "",
            "AreaID": 0
          }
        }
      }
    ]
  }
}
```

```

    }
}
```

5.9.6 POST /artemis/api/acs/v1/privilege/group/delete

Delete the access level list.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/acs/v1/privilege/group/delete](https://[serverAddress]:[serverPort]/artemis/api/acs/v1/privilege/group/delete)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
list	Req.	<u>PrivilegeGroup Info</u>	Body	List of access levels to be deleted.
type	Req.	Number	Body	Access level type: 1 (access control), 2 (visitor).

Request Example

```
{
  "type": 1,
  "list": [
    {
      "privilegeGroupId": "1"
    }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to <u>Status or Error Code</u> for details. Each

Parameter	Req. or Opt.	Data Type	Description
			description can contain up to 256 characters.
msg	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.

Response Example

```
{
  "code": "0",
  "msg": "Success"
}
```

5.9.7 POST /artemis/api/acs/v1/privilege/group/update

Edit the access level list.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/acs/v1/privilege/group/update](https://[serverAddress]:[serverPort]/artemis/api/acs/v1/privilege/group/update)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like ' / \ : * ? " < >
data	Req.	PrivilegeGroup Info	Body	List of access levels to be edited.
type	Req.	Number	Body	Access level type: 1 (access control), 2 (visitor).

Request Example

```
{
  "type": 1,
  "privilegeGroupId": "1",
  "privilegeGroupName": "aaa",
```

```

"description": "aaa",
"isDefault": 0,
"timeSchedule": {
    "indexCode": "1"
},
"ElementList": [
    {
        "ID": 1
    }
]
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.

Response Example

```
{
    "code": "0",
    "msg": "Success"
}
```

5.9.8 POST /artemis/api/acs/v1/privilege/group/single/addPersons

Assign access levels to persons.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/acs/v1/privilege/group/single/addPersons](https://[serverAddress]:[serverPort]/artemis/api/acs/v1/privilege/group/single/addPersons)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Opt.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
privilegeGroupId	Req.	String	Body	Access group ID, which consists of up to 64 characters.
type	Req.	Number	Body	Access level type: 1 (access control), 2 (visitor).
list	Req.	Array	Body	Person information list.
list[0]	Req.	Object	Body	Information about a person.
id	Req.	String	Body	Person (visitor) ID, which consists of up to 64 characters.

Request Example

```
{
  "privilegeGroupId": "1",
  "type": 1,
  "list": [
    {
      "id": "1"
    }
  ]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the

Parameter	Req. or Opt.	Data Type	Description
			code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

5.9.9 POST /artemis/api/acs/v1/privilege/group/single/deletePersons

Unassign access levels to persons.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/acs/v1/privilege/group/single/deletePersons](https://[serverAddress]:[serverPort]/artemis/api/acs/v1/privilege/group/single/deletePersons)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
privilegeGroupId	Req.	String	Body	Access group ID, which consists of up to 64 characters.
type	Req.	Number	Body	Access level type: 1 (access control), 2 (visitor).
list	Req.	Array	Body	Person information list.
list[0]	Req.	Object	Body	Information about a person in the list.
id	Req.	String	Body	Person (visitor) ID, which consists of up to 64 characters.

Request Example

```
{
  "privilegeGroupId": "1",
  "type": 1,
  "list": [
    {
      "id": "1"
    }
  ]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

5.9.10 POST /artemis/api/acs/v1/privilege/group/single/personList

Get information list of persons related to the access levels.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/acs/v1/privilege/group/single/personList](https://[serverAddress]:[serverPort]/artemis/api/acs/v1/privilege/group/single/personList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483648.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
type	Req.	Number	Body	Access level type value: 1-access control, 2 (visitor, currently, it is not supported).
privilegeGroupId	Req.	String	Body	Access group ID, the maximum length is 64 characters.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 2,
  "type": 1,
  "privilegeGroupId": "1"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for

Parameter	Req. or Opt.	Data Type	Description
			details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Person information list.
list[0]	Opt.	Object	Information about a person. See details in PersonInfo .
id	Req.	String	Person ID, which consists of up to 64 characters.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 1,
    "pageNo": 1,
    "pageSize": 2,
    "list": [
      {
        "id": "1"
      }
    ]
  }
}
```

5.9.11 POST /artemis/api/visitor/v1/person/ID/elementDownloadDetail

Get the access level application information of a visitor.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/visitor/v1/person/ID/elementDownloadDetail](https://[serverAddress]:[serverPort]/artemis/api/visitor/v1/person/ID/elementDownloadDetail)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
id	Req.	String	Body	Visitor ID. The maximum length is 64.

Request Example

```
{
  "id": "125"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	ElementDetailList []	List of access level application information. See details in ElementDetail . The maximum length of this field is 128.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "ElementDetailList": [
      "ElementDetail": [
        {
          "BaseInfo": {
            "Name": "undefined",
            "ElementType": 0,
            "Network": 0
          }
        }
      ]
    ]
  }
}
```

```
        },
        "ElementStatus": {
            "Status": "-1",
            "ErrorModule": "0",
            "ErrorCode": "0"
        },
        "CertificateStatusList": {
            "CertificateStatus": [
                {
                    "Type": "0",
                    "ID": "0",
                    "Status": "-1",
                    "ErrorModule": "0",
                    "ErrorCode": "0"
                }
            ],
            "ID": "0"
        }
    }
}
```

5.9.12 POST /artemis/api/acs/v1/schedule/accessSchedule/get

Get the access schedule template information of the platform. When adding the access level, you should link it to an access template.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/acs/v1/schedule/accessSchedule/get](https://[serverAddress]:[serverPort]/arTEMIS/api/acs/v1/schedule/accessSchedule/get)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? < >
pageNo	Opt.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Opt.	Number	Body	Number of records on each page, which is between 1 and 500.

Request Example

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

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	ApplicationResult	See the table below for details.

Table 5-21 ApplicationResult Object Description

Parameter	Req. or Opt.	Data Type	Description
total	Req.	Number	Total number of results.
pageNo	Req.	Number	The current page number.
pageSize	Req.	Number	Number of records on each page.
list	Req.	TimeSchedule	Access schedule template list.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 1,
    "pageNo": 1,
    "pageSize": 1,
    "list": [
      {
        "indexCode": 0,
        "name": ""
      }
    ]
  }
}
```

```

    }]
}

```

5.10 On-Board Monitoring API

5.10.1 POST /artemis/api/mobilesurveillance/v1/gpsDetails

Get GPS statistics information of on-board devices.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/mobilesurveillance/v1/gpsDetails](https://[serverAddress]:[serverPort]/artemis/api/mobilesurveillance/v1/gpsDetails)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The current page No., which is between 1 and 2147483647.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.
mobilevehicleIndexCodes	Req.	String	Body	IDs of vehicles linked to on-board devices. Use comma to separate multiple items, e.g., "1, 2, 5".
startTime	Req.	String	Body	Start time of search, 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". The maximum length is 64 characters.
endTime	Req.	String	Body	End time of search, in ISO 8601 format, which is represented by "yyyy- MM-ddTHH:mm:ss+current time zone", e.g., "2018-07-

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				26T15:00:00 + 08:00". The maximum length is 64 characters. It should not exceed 31 days from start to end.

Request Example

```
{
  "pageNo": 1,
  "pageSize": 15
  "mobilevehicleIndexCodes":"1,2"
  "startTime": "2022-02-10T15:00:00+08:00",
  "endTime": "2022-02-11T16:00:00+08:00"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Req.	PageInfo[]	Response data details.

PageInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No., which is between 1 and 2147483647.
pageSize	Opt.	Number	Number of records on each page, which is between 1 and 500.
list	Opt.	detailInfo[]	Detailed information list.

detailInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
mobilevehicleIndexCode	Req.	String	ID of vehicle linked to the on-board device.
plateNo		Number	License plate No.
regionIndexCode		Number	Area ID.
list	Req.	gpsInfo	GPS information.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 1,
    "pageIndex": 1,
    "pageSize": 10,
    "list": [
      {
        "mobilevehicleIndexCode": "1",
        "plateNo": "zhe123",
        "regionIndexCode": "1",
        "gps_info_list": [
          {
            "occurTime": "2022-02-16 11:20:08",
            "longitude": -1,
            "latitude": -1,
            "direction": 0,
            "gpsDisplay": "E120,13,42;N30,12,1",
            "directionDisplay": "North",
            "speed": 10
          }
        ]
      }
    ]
  }
}
```

5.10.2 POST /artemis/api/mobilesurveillance/v1/recordOverview

Search for event records of vehicles linked to on-board devices (only including the brief information). See details via specific event protocols.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/mobilesurveillance/v1/recordOverview](https://[serverAddress]:[serverPort]/artemis/api/mobilesurveillance/v1/recordOverview)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
mobilevehicleIndexCodes	Req.	String	Body	IDs of vehicles linked to on-board devices. Use comma to separate different items. The maximum length is 64 characters.
eventTypes	Opt.	String	Body	Event types. Use comma to separate different items. The maximum length is 1024 characters.
beginTime	Req.	String	Body	Start time of search, 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". The maximum length is 64 characters.
endTime	Req.	String	Body	End time of search, 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". The maximum length is 64 characters. It should not exceed 31 days from start to end.
centerLongitude	Opt.	String	Body	Center longitude (0 by default). The maximum length is 16 characters.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
centerLatitude	Opt.	String	Body	Center Latitude (0 by default). The maximum length is 16 characters.
radius	Opt.	Number	Body	Radius (unit: m; 0 by default).
pageIndex	Req.	Number	Body	The target page No., which is between 1 and 2147483648.
pageSize	Req.	Number	Body	Number of records on each page, which is between 1 and 500.

Request Example

```
{
  "pageIndex": 1,
  "pageSize": 10,
  "mobilevehicleIndexCodes": "1,2",
  "eventTypes": "330203,330003",
  "beginTime": "2022-02-14T15:00:00+08:00",
  "endTime": "2022-02-15T15:00:00+08:00",
  "centerLongitude": "0.0",
  "centerLatitude": "0.0",
  "radius": 0
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	PageInfo	Response data: event records in page.

PageInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No., which is between 1 and 2147483647.
pageSize	Opt.	Number	Number of records on each page, which is between 1 and 500.
list	Opt.	<i>RecordOverview</i>	Event record list.

Response Example

```
{
  "code": "0",
  "msg": "success",
  "data": {
    "total": "1",
    "pageNo": "1",
    "pageSize": "10",
    "list": [
      {
        "eventIndexCode": "BF1A2B849C5E4EDC858EF295A4E7DD2D",
        "eventType": "330406",
        "mobilevehicleIndexCode": "1",
        "plateNo": "zhe123",
        "ownerName": "ll",
        "regionName": "area1",
        "occurTime": "2022-02-12T15:46:58+08:00",
        "longitude": "0.0",
        "latitude": "0.0",
        "direction": "0",
        "speed": 0,
        "displayInfo": "E0,0,0;N0,0,0",
        "directionInfo": "North"
      }
    ]
  }
}
```

5.10.3 POST /artemis/api/mobilesurveillance/v1/single/record

Search for event information of a on-board device.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/mobilesurveillance/v1/single/record](https://[serverAddress]:[serverPort]/artemis/api/mobilesurveillance/v1/single/record)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
mobilevehicleIndexCode	Req.	String	Header	ID of vehicle linked to the on-board device. The maximum length is 64 characters.
eventIndexCode	Req.	String	Header	Event record ID. The maximum length is 64 characters.

Request Example

```
{
    "mobilevehicleIndexCode": "1",
    "eventIndexCode": "BF1A2B849C5E4EDC858EF295A4E7DD2D"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	MSEventRecord	Response data: record of an event.

MSEventRecord Object Description

Parameter Name	Req. or Opt.	Data Type	Description
eventType	Req.	Number	Event type. The maximum length is 16 characters.
mobilevehicleInd	Req.	String	ID of vehicle linked to the on-board device. The maximum length is 64 characters.
exCode			
plateNo	Req.	String	License plate No. The maximum length is 10 characters.
regionName	Req.	Number	Area name. The maximum length is 4 characters.
ownerName	Opt.	String	Vehicle owner name.
phoneNo	Opt.	String	Contact number of the vehicle owner. The maximum length is 64 characters.
occurTime	Req.	String	GPS report time, in ISO 8601 standard time format: yyyy-MMdd'T'HH:mm:ss.SSSzzz, e.g., 2018-07-26T15:00:00 + 08:00. And the time consists of up to 64 characters.
longitude	Req.	String	Longitude (integer; including negative values), actual degrees × 3600 × 100 + acutal minutes × 60 × 100 + actual seconds × 100. The maximum length is 16 characters.
latitude	Req.	String	Latitude (integer; including negative values), actual degrees × 3600 × 100 + acutal minutes × 60 × 100 + actual seconds × 100. The maximum length is 16 characters.
direction	Req.	Number	Vehicle direction (calculated clockwise from due north (0); the actual degree * 100; [0, 36000]).
speed	Req.	Float	Speed (consistent with the platform: km/h by default). The maximum length is 16 characters.

Parameter Name	Req. or Opt.	Data Type	Description
speedLimit	Req.	Number	Speed threshold (consistent with the platform: km/h by default). The maximum length is 16 characters.
displayInfo	Req.	String	Displayed GPS information, e.g., E120, 50, 20; N30, 50, 20. The maximum length is 64 characters.
directionInfo	Req.	String	Displayed direction ("North", "Northeast", "East", "Southeast", "South", "Southwest", "West", "Northwest"). The maximum length is 16 characters.
image_url_list	Opt.	image_info_list[]	Picture URL list. You can call POST /artemis/api/mobilesurveillance/v1/picture_download to download pictures.
image_url	Opt.	String	Picture URL. The maximum length is 256 characters. You can call POST /artemis/api/mobilesurveillance/v1/picture_download to download pictures.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "eventType": 330203,
    "mobilevehicleIndexCode": "1",
    "plateNo": "zhe123",
    "regionName": "region1",
    "ownerName": "",
    "phoneNo": "",
    "occurTime": "2022-02-16T14:39:36-08:00",
    "longitude": "120.204",
    "latitude": "30.1894",
    "direction": 5628,
    "speed": 30,
    "speedLimit": "80",
    "displayInfo": "E120,12,13;N30,11,21",
    "directionInfo": "Northeast",
    "image_url_list": [
      {
        "url": "http://example.com/image1.jpg"
      },
      {
        "url": "http://example.com/image2.jpg"
      }
    ]
  }
}
```

```

        "image_url": "Vsm://PHQG#20220216#20220216_134335874.d:12:62692"
    }
}
}
```

5.10.4 POST /artemis/api/mobilesurveillance/v1/picture_download

Download pictures and videos from on-board monitoring event search or notification pushing.

Request URL

[https://\[serverAddress\]:\[serverPort\]/api/mobilesurveillance/v1/picture_download](https://[serverAddress]:[serverPort]/api/mobilesurveillance/v1/picture_download)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < > .
url	Req.	String	Header	Download resource URL, which can be obtained from on-board monitoring event search or on-board monitoring event notification pushing. The maximum length is 1024.
picType	Req.	Number	Header	Download resource type: 0-picture, 1-video.

Request Example

```
{
  "url": "Dev://picture/Streaming/tracks/303/?name=405812&size=405812&DEVICE=26&TYPE=0&VSM=0",
  "picType": 0
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
pic_data	Req.	String	Returned picture or video data, encrypted with Base64 method.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "pic_data": "FGde2GG3438F934U324aF0DG..."
  }
}
```

5.11 Commercial Display API

5.11.1 POST /artemis/api/focsign/v1/material/dataSource/search

Search for data source.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/focsign/v1/material/dataSource/search](https://[serverAddress]:[serverPort]/artemis/api/focsign/v1/material/dataSource/search)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? < >
sourceType	Req.	String	Body	Data source type: "push" (auto push data source), "pull" (third party database).
dataType	Req.	String	Body	Data type: "pic" (picture), "character" (text), "table" (table data).
sourceFrom	Req.	String	Body	Where the source is from: "inner" (internal), "custom" (customized), "all".

Request Example

```
{
  "sourceType": "push",
  "dataType": "character",
  "sourceFrom": "all"
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for

Parameter	Req. or Opt.	Data Type	Description
			details. Each description can contain up to 256 characters.
data	Req.	Object	Data source list. See details in <i>dataSourceData</i> .

Response Example

```
{
  "code": "0x0190020f",
  "msg": "Success",
  "data": {
    "total": 1,
    "list": [
      {
        "materialNo": 238,
        "sourceName": "test_text",
        "sourceID": "991D5E0041974A6BAE3D94C2178FCDF8",
        "sourceType": "push",
        "dataType": "character",
        "sourceFrom": "custom"
      }
    ]
  }
}
```

5.11.2 POST /artemis/api/focsign/v2/material(dataSource/update

Update data source (V2).

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/focsign/v2/material\(dataSource/update](https://[serverAddress]:[serverPort]/artemis/api/focsign/v2/material(dataSource/update)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
sourceID	Req.	String	Header	UUID for data source.
dataSourceData	Req.	Object	Body	Message of data source update. See details in <i>dataSourceData</i> .

Request Example

```
{
  "dataType": "pic",
  "dataUpdateType": "cover",
  "maxMaterialNum": 2,
  "picInfo": {
    "picUrlList": [
      {
        "id": "1",
        "type": "data",
        "data": "1111",
        "playTime": 1
      }
    ]
  },
  "characterInfo": {
    "contentList": [
      {
        "id": "1",
        "content": "test",
        "playTime": 1
      }
    ]
  },
  "tableInfo": {
    "tableList": [
      {
        "id": "1",
        "addorder": "1",
        "dataList": [
          {
            "value": "1"
          }
        ]
      }
    ]
  }
}
```

```

    }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.

Response Example

```
{
  "code": "0x0190020f",
  "msg": "Success"
}
```

5.11.3 POST /artemis/api/focsign/v2/material/dataSource/update/batch

Batch update data sources (V2).

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/focsign/v2/material/dataSource/update/batch](https://[serverAddress]:[serverPort]/artemis/api/focsign/v2/material/dataSource/update/batch)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
dataSourceBatchUpdateList	Req.	Object	Body	Message of data resource update in a batch. See details in <u>dataSourceBatchUpdateList</u> .

Request Example

```
{
  "dataSourceBatchUpdateList": [
    {
      "dataSourceUUID": "uuid",
      "dataType": "pic",
      "dataUpdateType": "cover",
      "maxMaterialNum": 2,
      "picInfo": {
        "picUrlList": [
          {
            "type": "1",
            "data": "1",
            "playTime": 0
          }
        ]
      },
      "characterInfo": {
        "contentList": [
          {
            "content": "1",
            "playTime": 0
          }
        ]
      },
      "tableInfo": {
        "tableList": [
          {
            "id": "0",
            "dataList": [
              {
                "value": "1"
              }
            ],
            "row": 1
          }
        ]
      }
    }
  ]
}
```

```

    ]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.

Response Example

```
{
  "code": "0x0190020f",
  "msg": "Success"
}
```

5.11.4 POST /artemis/api/focsign/v1/material/search

Search for specific material information.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/focsign/v1/material/search](https://[serverAddress]:[serverPort]/artemis/api/focsign/v1/material/search)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
materialMoreSearchDescription	Req.	Object	Body	Material search condition. See details in <u>materialMoreSearchDescription</u> .

Request Example

```
{
  "materialMoreSearchDescription": {
    "pageSize": "1",
    "pageNo": "10"
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to <u>Status or Error Code</u> for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to <u>Status or Error Code</u> for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Material information list.
list[0]	Opt.	Object	Material information in the list. See details in <u>material</u> .

Response Example

```
{  
    "code": "0",  
    "msg": "Success",  
    "data": {  
        "total": 3,  
        "pageSize": 20,  
        "pageNo": 0,  
        "list": [  
            {  
                "id": 188,  
                "materialName": "22",  
                "staticMaterial": "",  
                "approveState": "notApprove",  
                "uploadUser": "admin",  
                "uploadTime": "20240131T024546+00",  
                "shareProperty": "private",  
                "materialType": [  
                    "static",  
                    "video"  
                ]  
            },  
            {  
                "id": 187,  
                "materialName": "4",  
                "staticMaterial": "",  
                "approveState": "notApprove",  
                "uploadUser": "admin",  
                "uploadTime": "20240130T083831+00",  
                "shareProperty": "private",  
                "materialType": [  
                    "static",  
                    "picture"  
                ]  
            },  
            {  
                "id": 186,  
                "materialName": "3",  
                "staticMaterial": "",  
                "approveState": "notApprove",  
                "uploadUser": "admin",  
                "uploadTime": "20240130T082747+00",  
                "shareProperty": "private",  
                "materialType": [  
                    "static",  
                    "picture"  
                ]  
            }  
        ]  
    }  
}
```

```

    }
}
```

5.11.5 POST /artemis/api/focsign/v1/material/thumbnail/get

Get the material thumbnail.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/focsign/v1/material/thumbnail/get](https://[serverAddress]:[serverPort]/artemis/api/focsign/v1/material/thumbnail/get)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
materialId	Req.	String	Header	Material ID.

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	String	Image data encoded by Base64 in the response.

Response Example

```

HTTP/1.1
Content-Type:image/jpeg;charset=utf-8
Date:YourDate //Date
```

Content-Length:image_length //Image size

Picture data

5.11.6 POST /artemis/api/focsign/v1/publish/quickPublish

Quick release contents.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/focsign/v1/publish/quickPublish](https://[serverAddress]:[serverPort]/artemis/api/focsign/v1/publish/quickPublish)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
quickContent	Req.	String	Body	Quick released results. See details in <u>quickContent</u> .

Request Example

```
{
  "Program": {
    "Resolution": {
      "resolutionName": "1920*1080",
      "imageWidth": 1920,
      "imageHeight": 1080
    },
    "PageList": [
      {
        "staticMaterialType": "picture",
        "materialNo": 1,
        "PlayDuration": {
          "durationType": "materialTime",
          "duration": 1
        },
        "scaleType": "fitXY"
      }
    ]
  },
  "PublishPlan": {
    "playMode": "loop",
    "WeeklyPlan": {

```

```

"DayPlanList": [
    {
        "dayOfWeek": "0",
        "TimeSpan": {
            "beginTime": "20:30:09",
            "endTime": "20:35:09"
        }
    }
],
"playDuration": 0,
"endTime": "20230927T235959+08",
"publishMode": "timedPublish",
"timedPublishTime": "1",
"syncPlay": true
},
"PublishDeviceList": [
    0
],
"name": "1"
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details, refer to quickPublishPlanID .

Response Example

```
{
    "ResponseStatus": {
        "code": "0",
        "msg": "success"
        "Data": {
            "publishPlanId": 0
        }
    }
}
```

```

    }
}
```

5.11.7 POST /artemis/api/focsign/v1/publish/releasePlan/cancel

Cancel release by ordinary schedule and cut-in schedule.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/focsign/v1/publish/releasePlan/cancel](https://[serverAddress]:[serverPort]/artemis/api/focsign/v1/publish/releasePlan/cancel)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
releaseType	Req.	String	Body	Release type: byTerminal.
planId	Req.	Number	Body	Task ID.
terminalNoList	Req.	Array	Body	Device ID list.

Request Example

```
{
  "planId": 26,
  "releaseType": "byTerminal",
  "terminalNoList": [14,15]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the

Parameter	Req. or Opt.	Data Type	Description
			code, refer to Status or Error Code for details. Each description can contain up to 256 characters.

Response Example

```
{
  "code": "0",
  "msg": "success"
}
```

5.11.8 POST /artemis/api/focsign/v1/publish/single/releasePlanDetail/search

Search for a specific release schedule by the task ID.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/focsign/v1/publish/single/releasePlanDetail/search](https://[serverAddress]:[serverPort]/artemis/api/focsign/v1/publish/single/releasePlanDetail/search)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
planDetailSearch	Req.	Object	Body	Search condition of the release schedule. See details in planDetailSearch .

Request Example

```
{
  "pageNo": 0,
  "pageSize": 2,
  "releaseState": "all",
  "terminalNameLike": ""
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details, refer to planDetailResult .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "total": 1,
    "pageNo": 1,
    "pageSize": 2,
    "releaseTime": "1",
    "effectiveTime": "1",
    "releaseState": "1",
    "MatchList": [
      {
        "terminalNo": "1",
        "terminalName": "1",
        "errorCode": null,
        "errorMsg": "msg",
        "releaseState": "1"
      }
    ],
    "releaseTotalNum": 0,
    "releaseSuccessNum": 0,
    "releaseFailedNum": 0,
    "releaseCancelNum": 0,
    "releasingNum": 0,
    "notReleaseNum": 0
  }
}
```

5.11.9 POST /artemis/api/focsign/v1/terminal/control/search

Search for specific device information.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/focsign/v1/terminal/control/search](https://[serverAddress]:[serverPort]/artemis/api/focsign/v1/terminal/control/search)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
terminalSearchDescription	Req.	Object	Body	Device search condition. See details in <i>terminalSearchDescription</i> .

Request Example

```
{  
  "terminalSearchDescription": {  
    "areaID": 0,  
    "includeSubArea": true,  
    "onlineState": "online",  
    "keyword": "keyword",  
    "sortBy": "terminalType",  
    "orderMode": "ascend",  
    "pageSize": 0,  
    "pageNo": 0,  
    "screenSizeTypeList": [  
      {  
        "screenSizeType": "vertical"  
      }  
    ]  
  }  
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Response data details.
responseStatusString	Opt.	String	Response status: OK, FAILED, MORE, NO MATCH, PARAM ERROR, TIMEOUT. If "true + OK" is returned, it indicates no more results. If "true + MORE" is returned, it indicates there are more results besides the displayed results.
total	Opt.	Number	Total number of search results.
pageNo	Opt.	Number	The current page No.
pageSize	Opt.	Number	Number of records on each page.
list	Opt.	Array	Device information list.
list[0]	Opt.	Object	Device information in the list. See details in terminalSearchResult .

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "responseStatusString": "OK",
    "total": 1,
    "pageNo": 0,
    "pageSize": 20,
    "list": [
      {
        "id": 3,
        "terminalName": "10.18.66.47",
        "status": "Normal"
      }
    ]
  }
}
```

```

    "terminalType": "normal",
    "areaID": 1,
    "areaName": "test",
    "onlineState": "screenOn",
    "ipAddress": {
        "ipVersion": "v4",
        "ipAddress": "10.18.66.47"
    },
    "serialNo": "K62900774",
    "softwareVersion": "V4.2.0 build240125",
    "resolution": {
        "width": 1080,
        "height": 1920,
        "resolutionType": "1080*1920"
    },
    "screenSizeType": "vertical"
},
],
"totalOnlineNum": 1,
"totalTerminalNum": 1
}
}

```

5.12 Water Level API

5.12.1 POST /artemis/api/municipalmanagement/v1/WaterLevelRecord

Search for data record of water level.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/municipalmanagement/v1/WaterLevelRecord](https://[serverAddress]:[serverPort]/artemis/api/municipalmanagement/v1/WaterLevelRecord)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
MT	Opt.	String	Query	Request method (GET).

Request Example

```
{
    "WaterLevelRecordRequest": {
        "PageIndex": 1,
        "PageSize": 40,
        "QueryInfo": {
            "CameraElementIDs": "21",
            "BeginTime": "2023-03-06T05:28:30+08:00",
            "EndTime": "2023-03-07T12:28:32+08:00",
            "WaterLevel": "0",
            "OperateType": 1,
            "ExportInfo": {
                "ExportFileType": 1,
                "Language": "en",
                "Encoding": "UTF-8",
                "Type": 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 or Error Code for details). Each code can contain up to 32 characters.
data	Opt.	Object	Data source list. See details in dataSourceData .

Response Example

```
{
    "ResponseStatus": {
        "ErrorModule": 0,
        "ErrorCode": 0,
        "CascadingErrorInfo": "",
        "Data": {
            "WaterLevelRecordList": {
                "TotalNum": 6,
                "PageIndex": 1,
                "PageSize": 40,
                "RecordList": {
                    "Record": [

```

```
{  
    "Time": "2023-03-07T06:28:31+08:00",  
    "WaterLevel": "1.222",  
    "AreaName": "BLight",  
    "DevName": "IPdome"  
},  
{  
    "Time": "2023-03-07T06:30:31+08:00",  
    "WaterLevel": "1.333",  
    "AreaName": "BLight",  
    "DevName": "IPdome"  
},  
{  
    "Time": "2023-03-07T07:28:31+08:00",  
    "WaterLevel": "1.555",  
    "AreaName": "BLight",  
    "DevName": "IPdome"  
},  
{  
    "Time": "2023-03-07T07:30:31+08:00",  
    "WaterLevel": "1.333",  
    "AreaName": "BLight",  
    "DevName": "IPdome"  
},  
{  
    "Time": "2023-03-07T09:28:31+08:00",  
    "WaterLevel": "1.999",  
    "AreaName": "BLight",  
    "DevName": "IPdome"  
},  
{  
    "Time": "2023-03-07T10:28:31+08:00",  
    "WaterLevel": "1.001",  
    "AreaName": "BLight",  
    "DevName": "IPdome"  
}  
]  
}  
}  
}
```

5.12.2 POST /artemis/api/municipalmanagement/v1/WaterLevelRecordAnalyze

Get water level analysis data.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/municipalmanagement/v1/
WaterLevelRecordAnalyze](https://[serverAddress]:[serverPort]/artemis/api/municipalmanagement/v1/WaterLevelRecordAnalyze)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
MT	Opt.	String	Query	Request method (GET).

Request Example

```
{
    "WaterLevelRecord": {
        "PageIndex": 1,
        "PageSize": 20,
        "QueryInfo": [
            {
                "CameraElementIDs": "21",
                "BeginTime": "2023-03-26T00:28:30+08:00",
                "EndTime": "2023-03-26T23:28:32+08:00",
                "OperateType": 1,
                "Accuracy": 2,
                "ExportInfo": {
                    "ExportFileType": 1,
                    "Language": "en",
                    "Encoding": "UTF-8",
                    "Type": 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 or Error Code for details).

Parameter	Req. or Opt.	Data Type	Description
			Each code can contain up to 32 characters.
data	Opt.	Object	Data source list. See details in <i>dataSourceData</i> .

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "CascadingErrorInfo": "",
    "Data": {
      "WaterLevelRecordList": [
        {
          "SiteID": 0,
          "PageIndex": 1,
          "PageSize": 20,
          "Completeness": true,
          "RecordList": [
            {
              "CameraElementID": 96,
              "Record": [
                {
                  "Time": "2023-04-11T08:00:00+08:00",
                  "WaterLevel": "1.233"
                },
                {
                  "Time": "2023-04-11T09:00:00+08:00",
                  "WaterLevel": "1.233"
                },
                {
                  "Time": "2023-04-11T10:00:00+08:00",
                  "WaterLevel": "1.233"
                }
              ]
            }
          ]
        }
      }
    }
}
```

5.13 Video Tracing API

5.13.1 POST /artemis/api/goodsmanager/v1/GetCheckPointInfo

Get the information about third-party check points.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/goodsmanager/v1/GetCheckPointInfo](https://[serverAddress]:[serverPort]/artemis/api/goodsmanager/v1/GetCheckPointInfo)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
PageIndex	Req.	Number	Body	Target page number.
PageSize	Req.	Number	Body	Number of records on each page: [1, 500].
SearchName	Opt.	String	Body	Name of the check point to be searched. The fuzzy search is supported.

Request Example

```
{  
    "PageSize": 10,  
    "PageIndex": 1,  
    "SearchName": ""  
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details).
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	Object	Page information and check point information.

Table 5-22 PageInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
PageIndex	Req.	Number	The current page No.
PageSize	Req.	Number	Number of records on each page. Range: [1,500].
TotalNum	Req.	Number	Total number of check points.
CheckPointArray	Opt.	CheckPointInfo[]	Check point information.

Table 5-23 CheckPointInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
CheckPointID	Req.	Number	Check point ID.
CheckPointName	Req.	String	Check point name.
AreaID	Req.	Number	Area ID of check point.
AreaName	Req.	String	Area name.

Response Example

```
{
  "code": "0",
  "msg": "success",
  "data": {
    "PageIndex": "1",
    "PageSize": "20",
    "TotalNum": "1000",
    "CheckPointArray": [
      {
        "CheckPointID": "1",
        "CheckPointName": "Area A Checkpoint 1",
        "AreaID": "10001",
        "AreaName": "Area A"
      },
      ...
    ]
  }
}
```

```

    "TotalNum": "1",
    "CheckPointArray": [
        {
            "CheckPointID": 1,
            "CheckPointName": "Check point 1",
            "AreaID": 1,
            "AreaName": "Area 1"
        }
    ]
}

```

5.13.2 POST /artemis/api/goodsmanager/v1/ImportPackageRecord

Batch import barcode scanning records to the platform. You need to get the check points information of third-party access before importing records.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/goodsmanager/v1/ImportPackageRecord](https://[serverAddress]:[serverPort]/artemis/api/goodsmanager/v1/ImportPackageRecord)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
RecordImport Request	Req.	Object	Body	List of records to be imported.

Table 5-24 ImportPageInfo Object Description

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
Total	Req.	Number	Body	Total number of records. Range: (0,100].
RecordList	Req.	RecordInfo[]	Body	Record information list.

Table 5-25 RecordInfo Object Description

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
CheckpointName	Req.	String	Body	Check point name, which should be the same with that on the platform, case-sensitive.
OrderNo	Req.	String	Body	Barcode value. When the barcode value is EndCode9632, it will be treated as a terminator code if the end code determination is enabled in the basic configurations; otherwise, it will be processed as a regular barcode value.
OccurrenceTime	Req.	String	Body	Barcode scanning time, which is in ISO 8601 format (yyyy-MM-ddTHH:mm:ss+current time zone), e.g., "2018-07-26T15:00:00+08:00".

Request Example

```
{
  "RecordImportRequest": {
    "Total": 1,
    "RecordList": [
      {
        "CheckpointName": "Point 1",
        "OrderNo": "C11937239903",
        "OccurrenceTime": "2025-04-22T10:01:59+08:00"
      }
    ]
  }
}
```

Response Parameters

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

Parameter	Req. or Opt.	Data Type	Description
			Status or Error Code for details). Each code can contain up to 32 characters.
msg	Opt.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.

Response Example

```
{
  "code": "0",
  "msg": "success"
}
```

5.13.3 POST /artemis/api/goodsmanager/v1/PackageRecord

Get the parcel scanning records details.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/goodsmanager/v1/PackageRecord](https://[serverAddress]:[serverPort]/artemis/api/goodsmanager/v1/PackageRecord)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
BarCodeLogRe quest	Req.	Object	Body	Request object of parcel scanning records.
PageIndex	Req.	Number	Body	Target page number.
PageSize	Req.	Number	Body	Number of records on each page: [1, 100].
Filter	Req.	Object	Body	Filter object.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
BarCode	Req.	String	Body	Barcode for parcel search. The maximum length is 64.
BeginTime	Req.	String	Body	Start time in ISO 8601 format of search, which is represented by "yyyy-MM-ddTHH:mm:ss +current time zone", e.g., "2018-07-26T15:00:00+08:00". The maximum length is 64.
EndTime	Req.	String	Body	End time in ISO 8601 format of search, which is represented by "yyyy-MM-ddTHH:mm:ss +current time zone", e.g., "2018-07-26T15:00:00+08:00". The maximum length is 64.  Note The duration between the start time and end time cannot exceed 30 days.

Request Example

```
{
  "BarCodeLogRequest": {
    "PageIndex": 1,
    "PageSize": 100,
    "Filter": {
      "BarCode": "69244122354",
      "BeginTime": "2018-07-26T15:00:00+08:00",
      "EndTime": "2019-07-26T15:00:00+08:00"
    }
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module information.

Parameter	Req. or Opt.	Data Type	Description
ErrorCode	Req.	Number	Returned error code.
CascadingErrorInfo	Req.	String	Returned error details.
Data	Req.	Object	Returned information object.

Table 5-26 Data Object Description

Parameter	Req. or Opt.	Data Type	Description
PageIndex	Req.	Number	The current page No.
PageSize	Req.	Number	Number of records on each page. Range: (0,500].
HasNextPage	Req.	Number	If there is a next page: 0 (no), 1 (yes).
BarcodeLogList	Req.	Object	Barcode details list.

Table 5-27 BarCodeLogList Object Description

Parameter	Req. or Opt.	Data Type	Description
Barcode	Req.	String	Barcode value. The maximum length is 64 characters.
CheckPointName	Req.	String	Check point name.
CheckPointID	Req.	Number	Check point ID.
AreaID	Opt.	Number	Area ID.
AreaName	Opt.	String	Area name. The maximum length is 64.
TriggerTime	Req.	String	Barcode scanning time. It is in ISO format. The maximum length is 64 characters.
ImageBigUrl	Opt.	String	Image URL.
ImageSmallUrl	Opt.	String	Thumbnail URL.
CameraInfoList	Opt.	Object	Camera list.

Table 5-28 CameraInfoList Object Description

Parameter	Req. or Opt.	Data Type	Description
CameraID	Opt.	Number	Camera ID.
CameraName	Opt.	String	Camera name, the maximum length is 64.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "CascadingErrorInfo": "",
    "Data": {
      "PageIndex": 1,
      "PageSize": 100,
      "HasNextPage": 0,
      "BarcodeLogList": {
        "Barcode": "69244122354",
        "CheckPointName": "check1",
        "CheckPointID": 1,
        "AreaID": 1,
        "AreaName": "yuetai",
        "TriggerTime": "2018-07-26T15:00:00+08:00",
        "ImageBigUrl": "",
        "ImageSmallUrl": "",
        "CameraInfoList": [
          {
            "CameraID": 1,
            "CameraName": "pda1"
          }
        ]
      }
    }
  }
}
```

5.14 Attendance API

5.14.1 POST /artemis/api/attendance/v1/report

Get daily attendance details.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/attendance/v1/report](https://[serverAddress]:[serverPort]/artemis/api/attendance/v1/report)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of up to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
pageNo	Req.	Number	Body	The page number of the attendance.
pageSize	Req.	Number	Body	Number of records on each page.
personName	Opt.	String	Body	Person name.
personCode	Opt.	String	Body	Employee No.
orgIndexCode	Opt.	Number	Body	Department ID.
beginTime	Req.	String	Body	Start time of searching attendance, which should be in the following format: 2024-01-08T00:00:00 08:00.
endTime	Req.	String	Body	End time of searching attendance, which should be in the following format: 2024-01-08T23:59:59 08:00.
personState	Opt.	Number	Body	Person status: 1-on-duty.
sortField	Opt.	Number	Body	1-employee No., 2-department name, 3-time.
sortType	Opt.	Number	Body	1-descending order, 2-ascending order.

Request Example

```
{
  "attendanceReportRequest": {
    "pageNo": 1,
    "pageSize": 100,
    "queryInfo": {
      "beginTime": "2024-01-08T00:00:00 08:00",
      "endTime": "2024-01-08T23:59:59 08:00"
    }
  }
}
```

```

    "personID": [],
    "beginTime": "2024-01-08T00:00:00 08:00",
    "endTime": "2024-01-08T23:59:59 08:00",
    "sortInfo": {
        "sortField": 1,
        "sortType": 1
    }
}
}
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response code: "0"-succeeded, other values-failed.
msg	Req.	String	Response description.
nextPage	Opt.	String	Whether it contains the next page: "0"-no, "1"-yes.
pageNo	Opt.	String	Page No.
pageSize	Opt.	String	Total number of each page.
personInfo	Opt.	String	Person information.
date	Opt.	String	Date.
weekDay	Opt.	String	Day of the week: "1"-Monday, "2"-Tuesday, "3"-Wednesday, "4"-Thursday, "5"-Friday, "6"-Saturday, "0"-Sunday.
allDurationTime	Opt.	String	Total duration, unit: s.
planBeginTime	Opt.	String	Start time of the plan, in ISO time format, e.g., 2021-10-10 10:10:10+08:00.
planEndTime	Opt.	String	End time of the plan, in ISO time format, e.g., 2021-10-10 10:10:10+08:00.
planWorkDurationTime	Opt.	String	Scheduled work duration, unit: s.

Parameter	Req. or Opt.	Data Type	Description
beginTime	Opt.	String	Actual start time, in ISO time format, e.g., 2021-10-10 10:10:10+08:00.
endTime	Opt.	String	Actual end time, in ISO time format, e.g., 2021-10-10 10:10:10+08:00.
attendanceStatus	Opt.	String	Attendance status: "1"-normal, "2"-late, "3"-early leave, "4"-absent, "5"-late and early leave, "6"-holiday, "7"-unscheduled, "8"-leave.
temperatureType	Opt.	String	Temperature status: "1"-unknown, "2"-normal, "3"-exception.
normalInfo	Opt.	Object	Normal work information.
lateInfo	Opt.	Object	Late information.
earlyInfo	Opt.	Object	Early leave information.
absenceInfo	Opt.	Object	Absence information.
overtimeInfo	Opt.	Object	Overtime work information.
leaveInfo	Opt.	Object	Leave information.
restInfo	Opt.	Object	Rest information.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": {
    "nextPage": "0",
    "pageNo": "1",
    "pageSize": "100",
    "record": [
      {
        "personInfo": {
          "personID": "1",
          "givenName": "yang",
          "familyName": "1",
          "fullName": "yang 1",
          "personCode": "4909551047",
          "orgIndexCode": "1",
          "orgName": "All Departments",
          "postID": "1",
          "post": ""
        },
      }
    ]
  }
}
```

```
"date": "2024-01-30",
"weekDay": "2",
"allDurationTime": "0",
"planInfo": {
    "periodID": "2",
    "periodName": "Example-Flexible Shift Timetable",
    "planBeginTime": "2024-01-30T09:00:00+08:00",
    "planEndTime": "2024-01-30T18:00:00+08:00",
    "planWorkDurationTime": "32400"
},
"attendanceBaseInfo": {
    "beginTime": "",
    "endTime": "",
    "attendanceStatus": "4"
},
"attendanceDetailInfo": {
    "bodyTemperature": "",
    "temperatureType": "1"
},
"normalInfo": {
    "durationTime": "0"
},
"lateInfo": {
    "durationTime": "0"
},
"earlyInfo": {
    "durationTime": "0"
},
"absenceInfo": {
    "durationTime": "32400"
},
"overtimeInfo": {
    "allOvertimeDurationTime": "0",
    "workDayDurationTime": "0",
    "weekendDurationTime": "0",
    "holidayDurationTime": "0"
},
"leaveInfo": {
    "allLeaveDurationTime": "0"
},
"restInfo": {
    "durationTime": "0"
}
}
]
}
```

5.15 Canteen Consumption API

5.15.1 POST /artemis/api/ConsumePlugin/v1/ConsumeControl/ GetDepartmentConsumeGroups

Get departments as payment groups.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/ConsumePlugin/v1/ConsumeControl/GetDepartmentConsumeGroups](https://[serverAddress]:[serverPort]/artemis/api/ConsumePlugin/v1/ConsumeControl/GetDepartmentConsumeGroups)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
MT	Req.	String	Query	Request method: GET. The maximum length is 3.

Table 5-29 Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Table 5-30 Data

Parameter	Req. or Opt.	Data Type	Description
TotalNum	Req.	Number	Number of records on each page.
DepartmentDataList	Opt.	Array	Department information list.

Table 5-31 DepartmentDataList

Parameter	Req. or Opt.	Data Type	Description
GroupId	Req.	Number	Payment Group ID.
DepartmentID	Req.	Number	Department ID.
ParentID	Req.	Number	Parent department ID.
DepartmentName	Req.	String	Department name.
EnableRegularSubsidy	Req.	Number	Whether to enable scheduled allowance: 0-no, 1-yes.
PermissionStatus	Req.	Number	Whether the user has permission to the department payment group: 0-no, 1-yes.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "Data": {
      "DepartmentDataList": {
        "DepartmentData": [
          {
            "GroupId": 0,
            "DepartmentID": 0,
            "ParentID": 0,
            "DepartmentName": "test",
            "EnableRegularSubsidy": 0,
            "PermissionStatus": 0
          }
        ],
        "TotalNum": 0
      }
    }
  }
}
```

5.15.2 POST /artemis/api/ConsumePlugin/v1/ConsumeControl/ConsumeGroup

Add a custom payment group.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/ConsumePlugin/v1/ConsumeControl/ConsumeGroup](https://[serverAddress]:[serverPort]/artemis/api/ConsumePlugin/v1/ConsumeControl/ConsumeGroup)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
GroupCreateRequest	Req.	Object	Body	Payment group information.

Table 5-32 GroupCreateRequest

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
GroupName	Req.	String	Body	Payment group name, which consists of 1 to 64 characters, but cannot be duplicate or contain special characters like '/ \ : * ? " < >

Request Example

```
{
  "GroupCreateRequest": {
    "GroupName": "Test"
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Table 5-33 Data

Parameter	Req. or Opt.	Data Type	Description
GroupId	Req.	Number	ID of the newly added payment group.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "Data": {
      "GroupId": 0
    }
  }
}
```

5.15.3 POST /artemis/api/ConsumePlugin/v1/ConsumeControl/ConsumeGroup/{ID}

Edit custom payment group information.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/ConsumePlugin/v1/ConsumeControl/ConsumeGroup/{ID}](https://[serverAddress]:[serverPort]/artemis/api/ConsumePlugin/v1/ConsumeControl/ConsumeGroup/{ID})

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like ' / \ : * ? " < >
MT	Req.	String	Query	Request method: GET. The maximum length is 3.
ID	Req.	Number	Path	Custom payment group ID.
ConsumeGroupInfo	Req.	Object	Body	Payment group information.

Table 5-34 ConsumeGroupInfo

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
GroupName	Req.	String	Body	Edited payment group name, which consists of 1 to 64 characters, but cannot be duplicate or contain special characters like '/ \ : * ? < >

Request Example

```
{
  "ConsumeGroupInfo": {
    "GroupName": ""
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0
  }
}
```

5.15.4 POST /artemis/api/ConsumePlugin/v1/ConsumeControl/DelConsumeGroups

Batch delete specified/all custom payment groups.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/ConsumePlugin/v1/ConsumeControl/DelConsumeGroups](https://[serverAddress]:[serverPort]/artemis/api/ConsumePlugin/v1/ConsumeControl/DelConsumeGroups)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like ' / \ : * ? " < >
MT	Req.	String	Query	Request method: DELETE. The maximum length is 6.
GroupDeleteRequest	Req.	Object	Body	Request of deleting custom payment groups.

Table 5-35 GroupDeleteRequest

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
DeleteAll	Req.	Number	Body	Whether to delete all custom payment groups: 0-batch delete specified ones, 1-delete all.
ConfirmFlag	Opt.	Number	Body	Second confirmation flag bit: 0-do not confirm the deleting and check if there are remaining amount/times for the payment groups, 1-delete specified payment groups directly.
ConsumeGroupList	Opt.	Array	Body	List of payment groups to be deleted.

Table 5-36 ConsumeGroupList

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
GroupId	Req.	Number	Body	Payment group ID.

Request Example

```
{
  "GroupDeleteRequest": {
    "DeleteAll": 0,
```

```

    "ConfirmFlag": 0,
    "ConsumeGroupList": [
        {
            "GroupID": 0
        }
    ]
}
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Table 5-37 Data

Parameter	Req. or Opt.	Data Type	Description
AccountResidue	Opt.	Number	Whether there is remaining amount/times in the account: 0-no, 1-yes.
GroupErrorDataList	Opt.	Object	Payment groups failed to be deleted.

Table 5-38 GroupErrorDataList

Parameter	Req. or Opt.	Data Type	Description
GroupErrorData	Opt.	Array	Payment group information list.

Table 5-39 GroupErrorData

Parameter	Req. or Opt.	Data Type	Description
GroupID	Req.	Number	Payment group ID.
GroupName	Req.	String	Payment group name.
ErrorCode	Req.	Number	Error code for failure.

Response Example

```
{
    "ResponseStatus": {
```

```

"ErrorModule": 0,
"ErrorCode": 0,
"Data": {
    "AccountResidue": 0,
    "GroupErrorDataList": {
        "GroupErrorData": [
            {
                "GroupID": 0,
                "GroupName": "Test",
                "ErrorCode": 0
            }
        ]
    }
}
}

```

5.15.5 POST /artemis/api/ConsumePlugin/v1/ConsumeControl/ GetConsumeGroups

Get custom payment groups.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/ConsumePlugin/v1/ConsumeControl/GetConsumeGroups](https://[serverAddress]:[serverPort]/artemis/api/ConsumePlugin/v1/ConsumeControl/GetConsumeGroups)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
MT	Req.	String	Query	Request method: GET. The maximum length is 3.
GroupListRequest	Req.	Object	Body	Request of getting custom payment groups.

Table 5-40 GroupListRequest

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
SearchCondition	Opt.	Object	Body	Search condition. All custom payment groups will be obtained when this field is empty.

Table 5-41 SearchCondition

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
GroupName	Opt.	String	Body	Payment group name. Fuzzy search is supported.

Request Example

```
{
  "GroupListRequest": {
    "SearchCondition": {
      "GroupName": ""
    }
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Table 5-42 Data

Parameter	Req. or Opt.	Data Type	Description
GroupDataList	Opt.	Object	Payment group information.

Table 5-43 GroupDataList

Parameter	Req. or Opt.	Data Type	Description
GroupData	Opt.	Array	Payment group information list.

Table 5-44 GroupData

Parameter	Req. or Opt.	Data Type	Description
GroupID	Req.	Number	Payment group ID.
GroupName	Req.	String	Payment group name.
EnableRegularSubsidy	Req.	Number	Whether to enable scheduled allowance: 0-no, 1-yes.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "Data": {
      "GroupDataList": {
        "GroupData": [
          {
            "GroupID": 0,
            "GroupName": "Test",
            "EnableRegularSubsidy": 0
          }
        ]
      }
    }
  }
}
```

5.15.6 POST /artemis/api/ConsumePlugin/v1/ConsumeControl/ConsumeGroup/{ID}/AddPersons

Add persons to the custom payment group.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/ConsumePlugin/v1/ConsumeControl/ConsumeGroup/{ID}/AddPersons](https://[serverAddress]:[serverPort]/artemis/api/ConsumePlugin/v1/ConsumeControl/ConsumeGroup/{ID}/AddPersons)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like ' / \ : * ? " < >
ID	Req.	Number	Path	Custom payment group ID.
PersonListRequest	Req.	Object	Body	Request of adding persons.

Table 5-45 PersonListRequest

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
KeepOrigin	Req.	Number	Body	Handling method when there are persons that have been added to another custom payment group: 0 (return the number of duplicate persons and do not add the custom payment group), 1 (move the duplicate persons to the new custom payment group), 2 (keep the duplicate persons in the original custom payment group).
PersonList	Req.	Array	Body	List of persons to be added.

Table 5-46 PersonList

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
PersonID	Req.	Number	Body	Person ID.

Request Example

```
{
  "PersonListRequest": {
    "KeepOrigin": 0,
    "PersonList": [
      {
        "PersonID": 0
    }
  ]
}
```

```

        }
    ]
}
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Table 5-47 Data

Parameter	Req. or Opt.	Data Type	Description
RepeatedPersonNum	Req.	Number	Number of duplicate persons.
PersonErrorDataList	Req.	Object	Error information of persons failed to be added.

Table 5-48 PersonErrorDataList

Parameter	Req. or Opt.	Data Type	Description
PersonErrorData	Req.	Array	Error information list of persons failed to be added.

Table 5-49 PersonErrorData

Parameter	Req. or Opt.	Data Type	Description
PersonID	Req.	Number	Person ID.
PersonFullName	Req.	String	Person's full name.
ErrorCode	Req.	Number	Error code for failure.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "Data": {
      "RepeatedPersonNum": 0,
      "PersonErrorDataList": [
        {
          "PersonID": 1,
          "PersonFullName": "John Doe",
          "ErrorCode": 0
        }
      ]
    }
  }
}
```

```

"RepeatedPersonNum": 0,
"PersonErrorDataList": [
    "PersonErrorData": [
        {
            "PersonID": 0,
            "PersonFullName": "test",
            "Error": 0
        }
    ]
}
}

```

5.15.7 POST /artemis/api/ConsumePlugin/v1/ConsumeControl/ConsumeGroup/{ID}/DelPersons

Delete persons from the custom payment group.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/ConsumePlugin/v1/ConsumeControl/ConsumeGroup/{ID}/DelPersons](https://[serverAddress]:[serverPort]/artemis/api/ConsumePlugin/v1/ConsumeControl/ConsumeGroup/{ID}/DelPersons)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like ' / \ : * ? " < >
MT	Req.	String	Query	Request method: DELET. The maximum length is 6.
ID	Req.	Number	Path	Custom payment group ID.
PersonDeleteRequest	Req.	Object	Body	Request of deleting persons.

Table 5-50 PersonDeleteRequest

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
DeleteAll	Req.	Number	Body	Whether to clear all persons: 0-delete specified ones only (PersonList is valid), 1-clear all.
ConfirmFlag	Req.	Number	Body	Second confirmation flag bit: 0-do not confirm the deleting and check if there are remaining amount/times for the persons, 1-delete specified persons and refund the amount or times automatically, 2-delete specified persons but do not refund the amount or times.
PersonList	Opt.	Array	Body	List of persons to be added.

Table 5-51 PersonList

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
PersonID	Req.	Number	Body	Person ID.

Request Example

```
{
  "PersonDeleteRequest": {
    "DeleteAll": 0,
    "ConfirmFlag": 0,
    "PersonList": [
      {
        "PersonID": 0
      }
    ]
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.

Parameter	Req. or Opt.	Data Type	Description
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Table 5-52 Data

Parameter	Req. or Opt.	Data Type	Description
AccountResidue	Opt.	Number	Whether there is remaining amount/times in the account: 0-no, 1-yes.
PersonErrorDataList	Opt.	Object	Error information of persons failed to be deleted.

Table 5-53 PersonErrorDataList

Parameter	Req. or Opt.	Data Type	Description
PersonErrorData	Req.	Array	Error information list of persons failed to be added.

Table 5-54 PersonErrorData

Parameter	Req. or Opt.	Data Type	Description
PersonID	Req.	Number	Person ID.
PersonFullName	Req.	String	Person's full name.
ErrorCode	Req.	Number	Error code for failure.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "CascadingErrorInfo": "",
    "Data": {
      "AccountResidue": 0,
      "PersonErrorDataList": {
        "PersonErrorData": [
          {
            "PersonID": 0,
            "PersonFullName": "",
            "ErrorCode": 0
          }
        ]
      }
    }
  }
}
```

```

        }
    }
}

```

5.15.8 POST /artemis/api/ConsumePlugin/v1/ConsumeControl/{ID}/GetPersons

Get persons of a department and a custom payment group.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/ConsumePlugin/v1/ConsumeControl/{ID}/GetPersons](https://[serverAddress]:[serverPort]/artemis/api/ConsumePlugin/v1/ConsumeControl/{ID}/GetPersons)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
MT	Req.	String	Query	Request method: GET. The maximum length is 3.
ID	Req.	Number	Path	Custom payment group ID.
PersonListRequest	Req.	Object	Body	Request of getting persons.

Table 5-55 PersonListRequest

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
PageIndex	Req.	Number	Body	The current page No.: [1,2147483647]. The maximum length is 10.
PageSize	Req.	Number	Body	Number of records on each page: [1, 500]. The maximum length is 3.
SearchCondition	Opt.	Object	Body	Search condition. All persons in the payment group will be

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				included when this field is empty.

Table 5-56 SearchCondition

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
ResidueAmountFloor	Opt.	Number	Body	Range of lower limit for account balance: [-99999999, 99999999]. It is -99999999 when this field is empty. The money value is in minimum currency unit of the corresponding country/region. For example, in the U.S., if the input value is 100, it stands for 100 cents, i.e., one dollar.
ResidueAmountUpper	Opt.	Number	Body	Range of upper limit for account balance: [-99999999, 99999999]. It is 99999999 when this field is empty. The money value is in minimum currency unit of the corresponding country/region. For example, in the U.S., if the input value is 100, it stands for 100 cents, i.e., one dollar.
ResidueTimesFloor	Opt.	Number	Body	Range of lower limit for remaining times: [-9999, 9999]. It is -9999 when this field is empty.
ResidueTimesUpper	Opt.	Number	Body	Range of upper limit for remaining times: [-9999, 9999]. It is 9999 when this field is empty.
PersonName	Opt.	String	Body	Person's name, fuzzy search supported, empty by default.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
PersonCode	Opt.	String	Body	Person's No., fuzzy search supported, empty by default.
IncludeSubDepartment	Opt.	Number	Body	Whether to include sub departments (only valid for department payment groups): 0-no, 1-yes.
SortInfo	Opt.	Object	Body	Sorting.

Table 5-57 SortInfo

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
SortType	Opt.	Number	Body	Sorting field: -1 (default: name), 1 (name), 2 (ID), 3 (department), 4 (remaining amount), 5 (remaining times), 6 (balance (personal account)), 7 (remaining times (personal account)), 8 (balance (personal allowance)), 9 (remaining times (personal allowance)).
Sort	Opt.	Number	Body	Sorting type: -1 (default, ascending order of name), 0 (descending order), 1 (ascending order).

Request Example

```
{
    "PersonListRequest": {
        "PageIndex": 1,
        "PageSize": 100,
        "SearchCondition": {
            "ResidueAmountFloor": 0,
            "ResidueAmountUpper": 0,
            "ResidueTimesFloor": 0,
            "ResidueTimesUpper": 0,
            "PersonName": "test",
            "PersonCode": "1234abc",
            "IncludeSubDepartment": 0,
            "SortInfo": {

```

```

        "SortType": 0,
        "Sort": 0
    }
}
}
}
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Table 5-58 Data

Parameter	Req. or Opt.	Data Type	Description
TotalNum	Req.	Number	Total number of persons.
PageIndex	Req.	Number	The current page No. : [1, 2147483648]. The maximum length is 10.
PageSize	Req.	Number	Number of records on each page: [1,500]. The maximum length is 3.
PersonDataList	Opt.	Object	Person information.

Table 5-59 PersonDataList

Parameter	Req. or Opt.	Data Type	Description
PersonData	Opt.	Array	Person information list.

Table 5-60 PersonData

Parameter	Req. or Opt.	Data Type	Description
PersonID	Req.	Number	Person ID.
PersonFullName	Req.	String	Person's full name.
PersonCode	Req.	String	Person No.
OriginFullPath	Req.	String	Person group name.

Parameter	Req. or Opt.	Data Type	Description
ResidueAmount	Req.	Number	Total remaining amount. The money value is in minimum currency unit of the corresponding country/region. For example, in the U.S., if the input value is 100, it stands for 100 cents, i.e., one dollar.
RessidueTimes	Req.	Number	Total remaining times.
RechargeAmount	Req.	Number	Balance (personal account). The money value is in minimum currency unit of the corresponding country/region. For example, in the U.S., if the input value is 100, it stands for 100 cents, i.e., one dollar.
RechargeTimes	Req.	Number	Remaining times (personal account).
SubsidyAmount	Req.	Number	Balance (personal allowance). The money value is in minimum currency unit of the corresponding country/region. For example, in the U.S., if the input value is 100, it stands for 100 cents, i.e., one dollar.
SubsidyTimes	Req.	Number	Remaining times (personal allowance).
EnableSubsidy	Req.	Number	Whether to enable scheduled allowance: 0-no, 1-yes.
SmallPhotoUrl	Req.	String	Person's profile picture thumbnail URL.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "Data": {
      "TotalNum": 0,
      "PageIndex": 1,
      "PageSize": 100,
      "PersonDataList": [
        "PersonData": [
          {
            "Name": "John Doe",
            "Age": 30,
            "Address": "123 Main St, Anytown USA"
          }
        ]
      ]
    }
  }
}
```

```

    "PersonID": 0,
    "PersonFullName": "test",
    "PersonCode": "123abc",
    "OriginFullPath": "test",
    "ResidueAmount": 0,
    "RessidueTimes": 0,
    "RechargeAmount": 0,
    "RechargeTimes": 0,
    "SubsidyAmount": 0,
    "SubsidyTimes": 0,
    "EnableSubsidy": 0,
    "SmallPhotoUrl": "xxx"
}
]
}
}
}

```

5.15.9 POST /artemis/api/ConsumePlugin/v1/BaseConfig/GeneralConfig

Get the basic configuration information, including the currency unit, list of currencies supported by the platform, etc.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/ConsumePlugin/v1/BaseConfig/GeneralConfig](https://[serverAddress]:[serverPort]/artemis/api/ConsumePlugin/v1/BaseConfig/GeneralConfig)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
MT	Req.	String	Query	Request method: GET. The maximum length is 3.

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Table 5-61 Data

Parameter	Req. or Opt.	Data Type	Description
BaseConfig	Req.	Object	Basic configuration parameters.

Table 5-62 BaseConfig

Parameter	Req. or Opt.	Data Type	Description
MonetaryUnit	Req.	Number	Currency unit: 1-CNY, 2-USD, 3-EUR, 4-GBP, 5-HKD, 6-SGD, 7-KRW, 8-PLN, 9-RUB, 10-THB, 11-TRY, 12-VND, 13-ILS, 14-UAH, 15-CZK, 16-DDK, 17-NOK, 18-SEK, 19-IDR,

Parameter	Req. or Opt.	Data Type	Description
			20-BRL, 21-IQD, 22-INR, 23-BYR, 24-AED, 25-IRR, 26-BGN 27-HUF, 28-MYR, 29-MXN.
SupportCurrencyType	Req.	Object	Currencies supported by the platform.

Table 5-63 SupportCurrencyType

Parameter	Req. or Opt.	Data Type	Description
CurrencyType	Req.	Array	List of currencies supported by the platform.

Table 5-64 CurrencyType

Parameter	Req. or Opt.	Data Type	Description
Money	Req.	Number	The integer No. corresponding to each currency: [1, 29]. The maximum length is 2.
currency	Req.	String	The corresponding currency character.
decimal	Req.	Number	Number of decimal places: [0, 3], 2 by default.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "Data": {
      "BaseConfig": {
        "MonetaryUnit": 0,
```

```

    "SupportCurrencyType": {
      "CurrencyType": [
        {
          "Money": 0,
          "currency": "$",
          "decimal": 0
        }
      ]
    }
  }
}

```

5.15.10 POST /artemis/api/ConsumePlugin/v1/Account/ PersonsTopUporAllowance

Top up personal accounts or pay allowance to personal accounts.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/ConsumePlugin/v1/Account/PersonsTopUporAllowance](https://[serverAddress]:[serverPort]/artemis/api/ConsumePlugin/v1/Account/PersonsTopUporAllowance)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
OperationType	Req.	Number	Body	Operation type: 0-top up (default), 1-pay allowance. The money value is in minimum currency unit of the corresponding country/region. For example, in the U.S., if the input value is 100, it stands for 100 cents, i.e., one dollar.
RechargeAmount	Req.	Number	Body	Top-up/allowance amount: [0, 99999999]. The money value is in minimum currency unit of

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				the corresponding country/region. For example, in the U.S., if the input value is 100, it stands for 100 cents, i.e., one dollar.
RechargeTime s	Req.	Number	Body	Top-up/allowance times: [0, 9999].
BatchType	Req.	Number	Body	Batch type: 0-persons (default), 1-payment groups.
ConsumeGrou pID	Opt.	Number	Body	Payment group ID, valid when BatchType is 1.
IncludeSubDe partment	Opt.	Number	Body	Whether to include sub departments for selected department payment groups: 0-no (by default), 1-yes.
PersonRecharg eList	Opt.	Array	Body	Person's top-up/allowance information list, valid when BatchType is 0.

Table 5-65 PersonRechargeList

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
ID	Opt.	Number	Body	Person ID.

Request Example

```
{
  "OperationType": 0,
  "RechargeAmount": 0,
  "RechargeTimes": 0,
  "BatchType": 0,
  "ConsumeGroupId": 0,
  "IncludeSubDepartment": 0,
  "PersonRechargeList": [
    {
      "ID": 0
    }
  ]
}
```

```

    ]
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Table 5-66 Data

Parameter	Req. or Opt.	Data Type	Description
ErrorCodeList	Req.	Array	Error list (valid when some or all failed).

Table 5-67 ErrorCodeList

Parameter	Req. or Opt.	Data Type	Description
ErrorCode	Req.	Number	Error code.
ID	Req.	Number	Person ID.
PersonName	Req.	String	Person's name.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "Data": {
      "ErrorCodeList": [
        {
          "ErrorCode": 0,
          "ID": 0,
          "PersonName": "test"
        }
      ]
    }
  }
}
```

5.15.11 POST /artemis/api/ConsumePlugin/v1/Account/RegularSubsidy

Batch add scheduled allowance configuration for persons or payment groups. If scheduled allowance is already configured, call this API to batch edit the configuration.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/ConsumePlugin/v1/Account/RegularSubsidy](https://[serverAddress]:[serverPort]/artemis/api/ConsumePlugin/v1/Account/RegularSubsidy)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
RegularSubsidy	Req.	Object	Body	Scheduled allowance information.

Table 5-68 RegularSubsidy

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
RechargeAmount	Req.	Number	Body	Scheduled allowance amount: [0, 99999999]. RechargeAmount and RechargeTimes cannot both be 0. The money value is in minimum currency unit of the corresponding country/region. For example, in the U.S., if the input value is 100, it stands for 100 cents, i.e., one dollar.
RechargeTimes	Req.	Number	Body	Scheduled allowance times: an integer between [0,9999]. RechargeAmount and RechargeTimes cannot both be 0.
DayInMonth	Req.	Number	Body	The day of month: [1, 32]. 32 stands for the last day of a month.
AutoTime	Req.	Number	Body	Scheduled time: from 00:00 to 23:00, on the hour.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
BatchType	Req.	Number	Body	Batch type: 0-persons, 1-payment groups.
EnableType	Req.	Number	Body	Effective mode of scheduled allowance: 0-effective immediately, 1-effective the next month.
ConsumeGroupList	Opt.	Number	Body	Payment group list for scheduled allowance, valid when Batch Type is 1.
PersonsList	Opt.	Number	Body	Person list for scheduled allowance, valid when Batch Type is 0.

Table 5-69 ConsumeGroupList

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
ConsumeGroupID	Opt.	Number	Body	Payment group ID.

Table 5-70 PersonsList

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
ID	Opt.	Number	Body	Person ID.

Request Example

```
{
  "RegularSubsidy": {
    "RechargeAmount": 0,
    "RechargeTimes": 0,
    "DayInMonth": 0,
    "AutoTime": "04:00",
    "BatchType": 0,
    "EnableType": 0,
    "ConsumeGroupList": [
      {
        "ConsumeGroupID": 0
      }
    ],
    "PersonsList": [
      {

```

```

        "ID": 0
    }
]
}
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Table 5-71 Data

Parameter	Req. or Opt.	Data Type	Description
ErrorCodePersonList	Opt.	Array	List of persons whose scheduled allowance configuration adding/editing failed.
ErrorCodeGroupList	Opt.	Array	List of payment groups of which scheduled allowance configuration adding/editing failed.

Table 5-72 ErrorCodePersonList

Parameter	Req. or Opt.	Data Type	Description
ErrorCode	Req.	Number	Error code.
PersonID	Req.	Number	Person ID.
PersonName	Req.	String	Person's name.

Table 5-73 ErrorCodeGroupList

Parameter	Req. or Opt.	Data Type	Description
ErrorCode	Req.	Number	Error code.
GroupID	Req.	Number	Payment group ID.
GroupName	Req.	String	Payment group name.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "Data": {
      "ErrorCodePersonList": [
        {
          "ErrorCode": 0,
          "PersonID": 0,
          "PersonName": "PersonName"
        }
      ],
      "ErrorCodeGroupList": [
        {
          "ErrorCode": 0,
          "GroupID": 0,
          "GroupName": "GroupName"
        }
      ]
    }
  }
}
```

5.15.12 POST /artemis/api/ConsumePlugin/v1/Account/DeleteRegularSubsidy

Batch delete scheduled allowance for persons or payment groups.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/ConsumePlugin/v1/Account/DeleteRegularSubsidy](https://[serverAddress]:[serverPort]/arTEMIS/api/ConsumePlugin/v1/Account/DeleteRegularSubsidy)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
MT	Req.	String	Query	Request method: GET. The maximum length is 3.
RegularSubsidy	Req.	Object	Body	Scheduled allowance information to be batch deleted.

Table 5-74 RegularSubsidy

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
BatchType	Req.	Number	Body	Batch type: 0-persons, 1-payment groups (departments and custom payment groups included).
EnableType	Req.	Number	Body	Effective mode of scheduled allowance: 0-effective immediately, 1-effective the next month.
ConsumeGroupList	Opt.	Number	Body	Payment group list for scheduled allowance, valid when Batch Type is 1.
PersonsList	Opt.	Number	Body	Person list for scheduled allowance, valid when Batch Type is 0.

Table 5-75 ConsumeGroupList

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
ConsumeGroupID	Opt.	Number	Body	Payment group ID.

Table 5-76 PersonsList

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
ID	Opt.	Number	Body	Person ID.

Request Example

```
{
  "RegularSubsidy": {
    "BatchType": 0,
    "EnableType": 0,
    "ConsumeGroupList": [
      {
        "ConsumeGroupID": 0
      }
    ],
    "PersonsList": [
      {
        "ID": 0
      }
    ]
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Table 5-77 Data

Parameter	Req. or Opt.	Data Type	Description
ErrorCodePersonList	Opt.	Array	List of persons whose scheduled allowance configuration deleting failed.
ErrorCodeGroupList	Opt.	Array	List of payment groups of which scheduled allowance configuration deleting failed.

Table 5-78 ErrorCodePersonList

Parameter	Req. or Opt.	Data Type	Description
ErrorCode	Req.	Number	Error code.
PersonID	Req.	Number	Person ID.
PersonName	Req.	String	Person's name.

Table 5-79 ErrorCodeGroupList

Parameter	Req. or Opt.	Data Type	Description
ErrorCode	Req.	Number	Error code.
GroupID	Req.	Number	Payment group ID.
GroupName	Req.	String	Payment group name.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "CascadingErrorInfo": "",
    "Data": {
      "ErrroCodeGroupList": [
        {
          "ErrorCode": 0,
          "GroupID": 0,
          "GroupName": ""
        }
      ],
      "ErrorCodePersonList": [
        {
          "ErrorCode": 0,
          "PersonID": 0,
          "PersonName": ""
        }
      ]
    }
  }
}
```

5.15.13 POST /artemis/api/ConsumePlugin/v1/Account/RegularSubsidy/{ID}

Get the scheduled allowance configuration.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/ConsumePlugin/v1/Account/RegularSubsidy/{ID}](https://[serverAddress]:[serverPort]/artemis/api/ConsumePlugin/v1/Account/RegularSubsidy/{ID})

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
MT	Req.	String	Query	Request method: GET. The maximum length is 3.
ID	Req.	Number	Path	Payment group or person ID.
RegularSubsidy	Req.	Object	Body	Scheduled allowance information to be requested.

Table 5-80 RegularSubsidy

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
RequestType	Req.	Number	Body	Request type: 0-persons, 1-payment groups (departments and custom payment groups included).

Request Example

```
{
  "RegularSubsidy": {
    "RequestType": 0
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.

Parameter	Req. or Opt.	Data Type	Description
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Table 5-81 Data

Parameter	Req. or Opt.	Data Type	Description
RegularSubsidyList	Req.	Object	Scheduled allowance information.

Table 5-82 RegularSubsidyList

Parameter	Req. or Opt.	Data Type	Description
RegularSubsidy	Req.	Array	List of scheduled allowance information.

Table 5-83 RegularSubsidy

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
RechargeAmount	Req.	Number	Body	Scheduled allowance amount: [0, 9999999].
RechargeTimes	Req.	Number	Body	Scheduled allowance times: an integer between [0,9999].
DayInMonth	Req.	Number	Body	The day of month: [1, 32]. 32 stands for the last day of a month.
AutoTime	Req.	Number	Body	Scheduled time: from 00:00 to 23:00, on the hour.
EnableType	Req.	Number	Body	Effective mode of scheduled allowance: 0-effective immediately, 1-effective the next month.
SubsidyType	Opt.	Number	Body	Allowance type: 0-scheduled allowance configured by person, 1-scheduled allowance configured by custom payment group, 2-scheduled allowance configured by department.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "Data": {
      "RegularSubsidyInfo": {
        "RechargeAmount": 0,
        "RechargeTimes": 0,
        "DayInMonth": 0,
        "AutoTime": "04:00",
        "EnableType": 0,
        "SubsidyType": 0
      }
    }
  }
}
```

5.15.14 POST /artemis/api/ConsumePlugin/v1/Account/AccountSearch

Get person's transaction records.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/ConsumePlugin/v1/Account/AccountSearch](https://[serverAddress]:[serverPort]/arTEMIS/api/ConsumePlugin/v1/Account/AccountSearch)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? < >
MT	Req.	String	Query	Request method: GET. The maximum length is 3.
AccountSearch Conditions	Req.	Object	Body	Search condition object.

Table 5-84 AccountSearchConditions

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
PageIndex	Req.	Number	Body	The current page No.: [1,2147483647]. The maximum length is 10.
PageSize	Req.	Number	Body	Number of records on each page: [1, 500]. The maximum length is 3.
PersonName	Opt.	String	Body	Person's name, fuzzy search supported.
TransactionType	Req.	Number	Body	Transaction type: 0-all, 1-top-up, 2-allowance, 3-correction, 4-deduction, 5-deduction (payment amount), 6-new employee top-up.
OperationBeginTime	Req.	String	Body	Start time for operation search, in ISO 8601 format, e.g., "2024-08-21T16:00:00Z".
OperationEndTime	Req.	String	Body	End time for operation search, in ISO 8601 format, e.g., "2024-08-21T16:00:00Z".

Request Example

```
{
  "AccountSearchConditions": {
    "PageIndex": 0,
    "PageSize": 0,
    "PersonName": "name",
    "TransactionType": 0,
    "OperationBeginTime": "2024-08-15T00:00:00Z",
    "OperationEndTime": "2024-08-15T23:59:59Z"
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Table 5-85 Data

Parameter	Req. or Opt.	Data Type	Description
PageIndex	Req.	Number	The current page No.: [1,2147483647]. The maximum length is 10.
PageSize	Req.	Number	Number of records on each page: [1, 500]. The maximum length is 3.
TotalNum	Req.	Number	Total number of records.
AccountList	Req.	Array	Transaction record list.

Table 5-86 AccountList

Parameter	Req. or Opt.	Data Type	Description
TransactionType	Req.	Number	Transaction type: 0-all, 1-top-up, 2-allowance, 3-correction, 4-deduction, 5-deduction (payment amount), 6-new employee top-up.
AmountBeforeTransaction	Req.	Number	Amount before transaction: [0, 99999999]. The money value is in minimum currency unit of the corresponding country/region. For example, in the U.S., if the input value is 100, it stands for 100 cents, i.e., one dollar.
TransactionAmount	Req.	Number	Transaction amount: [0, 99999999]. The money value is in minimum currency unit of the corresponding country/region. For example, in the

Parameter	Req. or Opt.	Data Type	Description
			U.S., if the input value is 100, it stands for 100 cents, i.e., one dollar.
AmountAfterTransaction	Req.	Number	Amount after transaction: [0, 99999999]. The money value is in minimum currency unit of the corresponding country/region. For example, in the U.S., if the input value is 100, it stands for 100 cents, i.e., one dollar.
TimesBeforeTransaction	Req.	Number	Times before transaction: [0, 9999].
TransactionTimes	Req.	Number	Transaction times: [0, 99999999].
TimesAfterTransaction	Req.	Number	Times after transaction: [0, 9999].
OperationTime	Req.	String	Operation time, in ISO 8601 format, e.g., "2024-08-21T16:00:00Z".
OperationUser	Req.	String	Operator's name.
DeviceName	Req.	String	Device name.
MerchantName	Req.	String	Merchant name.
ConsumeTime	Req.	String	Consumption time (valid when TransactionType is 5), in ISO 8601 format, e.g., "2024-08-21T16:00:00Z".
PersonBasicInfo	Req.	Object	Basic information of person.

Table 5-87 PersonBasicInfo

Parameter	Req. or Opt.	Data Type	Description
PersonNo	Req.	String	Person No.
PersonName	Req.	String	Person's name.
OrganizationPath	Req.	String	Person's department path.

Response Example

```
{
  "ResponseStatus": {
```

```

"ErrorModule": 0,
"ErrorCode": 0,
"Data": {
    "PageIndex": 0,
    "PageSize": 0,
    "TotalNum": 0,
    "AccountList": [
        {
            "PersonBasicInfo": {
                "PersonNo": "12345",
                "PersonName": "PersonName",
                "OrganizationPath": "OrganizationName"
            },
            "TransactionType": 0,
            "AmountBeforeTransaction": 0,
            "TransactionAmount": 0,
            "AmountAfterTransaction": 0,
            "TimesBeforeTransaction": 0,
            "TransactionTimes": 0,
            "TimesAfterTransaction": 0,
            "OperationTime": "2024-08-15T00:00:00Z",
            "OperationUser": "OperateUserName",
            "DeviceName": "DeviceName",
            "MerchantName": "MerchantName",
            "ConsumeTime": "2024-08-15T00:00:00Z"
        }
    ]
}
}

```

5.15.15 POST /artemis/api/ConsumePlugin/v1/Trade/ConsumeLog

Get payment records.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/ConsumePlugin/v1/Trade/ConsumeLog](https://[serverAddress]:[serverPort]/artemis/api/ConsumePlugin/v1/Trade/ConsumeLog)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
MT	Req.	String	Query	Request method: GET. The maximum length is 3.
Request	Req.	Object	Body	Request object.

Table 5-88 Request

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
PageIndex	Req.	Number	Body	The current page No.: [1,2147483647]. The maximum length is 10.
PageSize	Req.	Number	Body	Number of records on each page: [1, 500]. The maximum length is 3.
SearchCriteria	Req.	Object	Body	Search condition object.

Table 5-89 SearchCriteria

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
PersonName	Opt.	String	Body	Person's name, fuzzy search supported.
BeginTime	Req.	String	Body	Start time for search, in ISO 8601 format, e.g., "2024-08-21T16:00:00Z".
EndTime	Req.	String	Body	End time for search, in ISO 8601 format, e.g., "2024-08-21T16:00:00Z".
ConsumeType	Opt.	String	Body	Charge by: "1"-amount, "2"-fixed amount, "3"-fixed times. All will be included when this field does not exist or is empty.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
RecordType	Opt.	Number	Body	Online/offline type of records: 0-online, 1-offline. All will be included when this field does not exist or is empty.
Type	Opt.	Number	Body	Record type: 0-normal, 1-abnormal. All will be included when this field does not exist or is empty.
PersonType	Opt.	Number	Body	Person type: 0-person, 1-visitor. All will be included when this field does not exist or is empty.

Request Example

```
{
  "Request": {
    "PageIndex": 1,
    "PageSize": 100,
    "SearchCriteria": {
      "PersonName": " ",
      "BeginTime": "2024-07-31T00:00:00Z",
      "EndTime": "2024-07-31T12:00:00Z",
      "ConsumeType": "1,2,3",
      "RecordType": 0,
      "Type": 0,
      "PersonType": 0
    }
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Table 5-90 Data

Parameter	Req. or Opt.	Data Type	Description
ConsumelogList	Req.	Object	Payment record list.

Table 5-91 ConsumelogList

Parameter	Req. or Opt.	Data Type	Description
TotalNum	Req.	Number	Total number of payment records.
PageIndex	Req.	Number	The current page No.: [1,2147483647]. The maximum length is 10.
PageSize	Req.	Number	Number of records on each page: [1, 500]. The maximum length is 3.
Consumelog	Req.	Array	Payment record information list.

Table 5-92 Consumelog

Parameter	Req. or Opt.	Data Type	Description
PersonName	Req.	String	Person's name.
PhotoUrl	Req.	String	Person's profile picture.
PersonCode	Req.	String	Person No.
PersonGroupName	Req.	String	Person group name.
PersonType	Req.	Number	Person type: 0-person, 1-visitor.
MerchantName	Req.	String	Merchant name.
DeviceName	Req.	String	Device name.
ConsumeState	Req.	Number	Payment record status: 0-normal, 1-failed, 2-overdraft, 3-others. 1, 2, and 3 all stand for abnormal payment records except 0.
ConsumeType	Req.	Number	Charge by: 1-amount, 2-fixed amount, 3-fixed times.
ConsumeTime	Req.	String	Payment time, in ISO 8601 format, e.g., "2024-08-21T16:00:00Z".

Parameter	Req. or Opt.	Data Type	Description
ConsumeAmount	Req.	Number	Payment amount: [0, 99999999]. The money value is in minimum currency unit of the corresponding country/region. For example, in the U.S., if the input value is 100, it stands for 100 cents, i.e., one dollar.
ConsumeCount	Req.	Number	Payment times: [0, 9999].
ReceiveTime	Req.	String	Payment record receiving time, in ISO 8601 format, e.g., "2024-08-21T16:00:00Z".
MealTypeName	Req.	String	Meal type name.
IsOperated	Req.	Number	Whether it is corrected: 0-no, 1-yes.
OperateDesc	Req.	String	Correction description.
SnapPicUrl	Req.	String	Captured face picture URL.
OperatorName	Req.	String	Correction operator's name.
RecordType	Req.	Number	Online/offline type of records: 0-online, 1-offline.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "Data": {
      "ConsumelogList": {
        "TotalNum": 0,
        "PageIndex": 0,
        "PageSize": 0,
        "Consumelog": [
          {
            "PersonName": "PersonName",
            "PhotoUrl": "PhotoUrl",
            "PersonCode": "PersonCode",
            "PersonGroupName": "PersonGroupName",
            "PersonType": 0,
            "MerchantName": "MerchantName",
            "DeviceName": "DeviceName",
            "ConsumeState": 1,
            "ConsumeType": 1,
            "ConsumeTime": "2024-08-21T16:00:00Z",
            ...
          }
        ]
      }
    }
  }
}
```

```
"ConsumeAmount": 0,  
"ConsumeCount": 1,  
"ReceiveTime": "2024-08-21T16:00:00Z",  
"IsOperated": 0,  
"OperateDesc": "OperateDesc",  
"SnapPicUrl": "SnapPicUrl",  
"OperatorName": "OperatorName",  
"RecordType": 0  
}  
]  
}  
}  
}
```

5.16 Education API

5.16.1 POST /artemis/api/video/v1/patrols/deletion

Delete a patrol of a camera.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/video/v1/patrols/deletion](https://[serverAddress]:[serverPort]/arTEMIS/api/video/v1/patrols/deletion)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
cameraIndexCode	Req.	String	Body	Camera ID, which consists of up to 64 characters.
patrolIndex	Req.	Number	Body	Patrol No., which ranges from 1 to 8. And the No. consists of up to 64 characters.

Request Example

```
{  
    "cameraIndexCode": "89",
```

```

    "patrolIndex":1
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
code	Req.	String	Response status or error code: 0-succeeded, other codes-failed (refer to Status or Error Code for details). Each code can contain up to 32 characters.
msg	Req.	String	Status or error description, which is in one-to-one correspondence with the code, refer to Status or Error Code for details. Each description can contain up to 256 characters.
data	Opt.	/	Set it to null.

Response Example

```
{
  "code": "0",
  "msg": "Success",
  "data": ""
}
```

5.16.2 POST /artemis/api/Education/v1/Edubasicdata/AddClass

Add class or class area.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/Education/v1/Edubasicdata/AddClass](https://[serverAddress]:[serverPort]/arTEMIS/api/Education/v1/Edubasicdata/AddClass)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
ClassRequest	Req.	Object	Body	Request object.
ParentClassID	Req.	Number	Body	Parent node ID of class: -1 (the default value: root node, i.e., getting all class nodes).
ClassList	Req.	Array	Body	Class list to be added.

ClassList Object Description

Parameter	Req. or Opt.	Data Type	Description
Class	Req.	Object	Class information.

Class Object Description

Parameter	Req. or Opt.	Data Type	Description
Name	Req.	String	Class information, which consists of 1 to 64 characters, but cannot be empty or contain special characters like '/ \ : * ? " < >
IsClass	Req.	Number	Whether it is class: 0-no (class area instead), 1-yes.
ClassType	Req.	Number	Class type: 0-core class, 1-elective class.
TeacherList	Req.	Array	Administrator teacher list for the class to be added.

TeacherList Object Description

Parameter	Req. or Opt.	Data Type	Description
TeacherID	Req.	Number	Teacher ID, which is the PersonID generated after the person is added to the platform.

Request Example

```
{
  "ClassRequest": {
    "ParentClassID": 0,
    "ClassList": [
      {
        "Class": {
          "Name": "Tony",
          "IsClass": 0,
          "ClassType": 0,
          "TeacherList": [
            {
              "TeacherID": 0
            }
          ]
        }
      }
    ]
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Data Object Description

Parameter	Req. or Opt.	Data Type	Description
ClassListt	Req.	Array	Class list.

Class Object Description

Parameter	Req. or Opt.	Data Type	Description
ClassID	Req.	Number	Class ID.
ClassName	Req.	String	Class name. The maximum length is 64.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "Data": {
      "ClassList": [
        {
          "ClassID": 0,
          "ClassName": "Class"
        }
      ]
    }
  }
}
```

5.16.3 POST /artemis/api/Education/v1/Edubasicdata/AddStudent

Add student to class.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/Education/v1/Edubasicdata/AddStudent](https://[serverAddress]:[serverPort]/artemis/api/Education/v1/Edubasicdata/AddStudent)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
StudentRequest	Req.	Object	Body	Request object.
StudentList	Req.	Number	Body	Student list information.

StudentList Object Description

Parameter	Req. or Opt.	Data Type	Description
ClassID	Req.	Number	Class ID.
ClassType	Req.	Number	Class type: 0-core class, 1-elective class.
ClassYear	Opt.	String	Enrollment time, in the format of "yyyy-MM". When ClassType is 0, this parameter is required. The maximum length is 7.
StudentID	Req.	String	Student No., which contains 16 digits of numbers or letters.
FirstName	Req.	String	Student's first name, which cannot contain special characters like '/ \ : * ? " < > . The maximum length of first name and last name together is 255.
LastName	Req.	String	Student's last name, which cannot contain special characters like '/ \ : * ? " < > . The maximum length of first name and last name together is 255.

Request Example

```
{
  "StudentRequest": {
    "StudentList": [
      {
        "ClassID": 1,
        "ClassType": 0,
        "ClassYear": "2024-04",
        "StudentID": "10001",
        "FirstName": "Tony",
        "LastName": "Stark"
      }
    ]
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Data Object Description

Parameter	Req. or Opt.	Data Type	Description
ErrorList	Opt.	Array	List of reasons for student adding failures. This parameter is only available and required when student adding failure occurs.

ErrorList Object Description

Parameter	Req. or Opt.	Data Type	Description
ErrorCode	Req.	Number	Error code.
StudentID	Req.	String	Student No. The maximum length is 16.
StudentName	Req.	String	Student name. The maximum length is 255.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "Data": {
      "ErrorList": [
        {
          "ErrorCode": 0,
          "StudentID": "10001",
          "StudentName": "Tony Stark"
        }
      ]
    }
  }
}
```

```

    }
}
```

5.16.4 POST /artemis/api/Education/v1/Edubasicdata/GetTeacherDepartmentList

Get teacher organization.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/Education/v1/Edubasicdata/GetTeacherDepartmentList](https://[serverAddress]:[serverPort]/arTEMIS/api/Education/v1/Edubasicdata/GetTeacherDepartmentList)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
MT	Req.	String	Query	Request method: GET.
TeacherDepartmentRequest	Req.	Object	Body	Request object.
ParentDepartmentID	Req.	Number	Body	Parent node ID: -1 (all organizations will be returned).
DepthTraversal	Req.	Number	Body	Whether to go through child organizations: 0-child organizations not included, 1-child organizations included.

Request Example

```
{
  "TeacherDepartmentRequest": {
    "ParentDepartmentID": 0,
    "DepthTraversal": 0
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Data Object Description

Parameter	Req. or Opt.	Data Type	Description
DepartmentTrees	Req.	Object	Teacher organization tree object.

DepartmentTrees Object Description

Parameter	Req. or Opt.	Data Type	Description
TotalNum	Req.	Number	Obtained number of organizations.
Departments	Req.	Array	Organization list.

Departments Object Description

Parameter	Req. or Opt.	Data Type	Description
ID	Req.	Number	Organization ID.
Name	Req.	String	Organization name.
ParentDepartmentID	Req.	Number	Parent organization ID.
DepartmentTree	Req.	Object	All parent nodes excluding the current node and root node.

DepartmentTree Object Description

Parameter	Req. or Opt.	Data Type	Description
TreeSize	Req.	Number	Path length. Up to 5 levels are allowed.
Department	Req.	Array	Organization list for the path.

Department Object Description

Parameter	Req. or Opt.	Data Type	Description
DepartmentID	Req.	Number	Organization ID.
DepartmentName	Req.	String	Organization name.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "Data": {
      "DepartmentTrees": [
        {
          "TotalNum": 0,
          "Departments": [
            {
              "ID": 0,
              "Name": "Teacher",
              "ParentDepartmentID": 0,
              "DepartmentTree": {
                "TreeSize": 0,
                "Department": [
                  {
                    "DepartmentID": 0,
                    "DepartmentName": "teacher"
                  }
                ]
              }
            }
          ]
        }
      ]
    }
  }
}
```

5.16.5 POST /artemis/api/Education/v1/Edubasicdata/AddTeacherDepartment

Add teacher organization.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/Education/v1/Edubasicdata/AddTeacherDepartment](https://[serverAddress]:[serverPort]/arTEMIS/api/Education/v1/Edubasicdata/AddTeacherDepartment)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
TeacherDepartmentRequest	Req.	Object	Body	Request object.
ParentID	Opt.	Number	Body	Parent organization ID: -1 (add organization to the root node).
Departments	Req.	Object	Body	Organization structure.

Departments Object Description

Parameter	Req. or Opt.	Data Type	Description
TotalNum	Req.	Number	Total number of organizations.
Department	Req.	Array	Organization list.

Department Object Description

Parameter	Req. or Opt.	Data Type	Description
Name	Req.	String	Organization name, which consists of 1 to 64 characters, but cannot be empty or contain special characters like '/ \ : * ? " < >

Request Example

```
{
  "TeacherDepartmentRequest": {
    "ParentID": -1,
    "Departments": {
      "TotalNum": 1,
      "Department": [
        {
          "Name": "Name"
        }
      ]
    }
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Data Object Description

Parameter	Req. or Opt.	Data Type	Description
Departments	Req.	Object	Organization list object that is successfully added.

Departments Object Description

Parameter	Req. or Opt.	Data Type	Description
TotalNum	Req.	Number	Total number of organizations that are successfully added.
Department	Req.	Array	List of organizations that are successfully added.

Department Object Description

Parameter	Req. or Opt.	Data Type	Description
DepartmentID	Req.	Number	Organization ID.
DepartmentName	Req.	String	Organization name.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "Data": {
      "Departments": {
        "TotalNum": 0,
        "Department": [
          {
            "DepartmentID": 0,
            "DepartmentName": "Teacher"
          }
        ]
      }
    }
  }
}
```

5.16.6 POST /artemis/api/Education/v1/Edubasicdata/AddTeacher

Add teacher to organization.

Request URL

[https://\[serverAddress\]:\[serverPort\]/arTEMIS/api/Education/v1/Edubasicdata/AddTeacher](https://[serverAddress]:[serverPort]/arTEMIS/api/Education/v1/Edubasicdata/AddTeacher)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
				contain special characters like '/ \ : * ? " < >
TeacherRequest	Req.	Object	Body	Request object.
TeacherList	Req.	Array	Body	Teacher list.

TeacherList Object Description

Parameter	Req. or Opt.	Data Type	Description
DepartmentID	Req.	Number	Organization ID.
TeacherID	Req.	String	Teacher No., which contains 16 digits of numbers or letters.
FirstName	Req.	String	Teacher's first name, which cannot contain special characters like '/ \ : * ? " < > . The maximum length of first name and last name together is 255.
LastName	Req.	String	Teacher's last name, which cannot contain special characters like '/ \ : * ? " < > . The maximum length of first name and last name together is 255.

Request Example

```
{
  "TeacherRequest": {
    "TeacherList": [
      {
        "DepartmentID": -1,
        "TeacherID": "10001",
        "FirstName": "Tony",
        "LastName": "Stark"
      }
    ]
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Data Object Description

Parameter	Req. or Opt.	Data Type	Description
ErrorList	Opt.	Array	List of reasons for teacher adding failures. This parameter is only available and required when teacher adding failure occurs.

ErrorList Object Description

Parameter	Req. or Opt.	Data Type	Description
ErrorCode	Req.	Number	Error code.
TeacherID	Req.	String	Teacher No. The maximum length is 16.
TeacherName	Req.	String	Teacher name. The maximum length is 255.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "Data": {
      "ErrorList": [
        {
          "ErrorCode": 0,
          "TeacherID": "10001",
          "TeacherName": "Tony Stark"
        }
      ]
    }
  }
}
```

```

    }
}
```

5.16.7 POST /artemis/api/Education/v1/Edubasicdata/ImportCourseTemplate

Import course schedule.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/Education/v1/Edubasicdata/ImportCourseTemplate](https://[serverAddress]:[serverPort]/artemis/api/Education/v1/Edubasicdata/ImportCourseTemplate)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
CourseTemplate	Req.	Object	Body	Request object.
ClassName	Req.	String	Body	Class name, which consists of 1 to 64 characters, but cannot be empty or contain special characters like '/ \ : * ? " < >
BeginTime	Req.	String	Body	Start time of course schedule, in the format of "yyyy-MM-dd". The maximum length is 10.
EndTime	Req.	String	Body	End time of course schedule, in the format of "yyyy-MM-dd". The maximum length is 10.
WeekCourseList	Req.	Array	Body	Weekly course schedule.

WeekCourseList Object Description

Parameter	Req. or Opt.	Data Type	Description
WeekDay	Req.	Number	Day of the week: 0-Sunday, 1-Monday... 6-Saturday.
Index	Req.	Number	Number of sections. Up to 12 are allowed for a day. Additional ones will not be added.
CourseName	Req.	String	Course name, which consists of 1 to 64 characters, but cannot be empty or contain special characters like '/*: * ? " < >
FirstName	Req.	String	Teacher's first name, which cannot contain special characters like '/*: * ? " < > . The maximum length of first name and last name together is 255.
LastName	Req.	String	Teacher's last name, which cannot contain special characters like '/*: * ? " < > . The maximum length of first name and last name together is 255.
TeacherID	Req.	String	Teacher No., which contains 16 digits of numbers or letters.
ClassroomName	Req.	String	Classroom name, which consists of 1 to 64 characters, but cannot be empty or contain special characters like '/*: * ? " < >

Request Example

```
{
  "CourseTemplate": {
    "ClassName": "ClassA",
    "BeginTime": "2024-04-01",
    "EndTime": "2024-07-01",
    "WeekCourseList": [
      {
        "WeekDay": 1,
        "Index": 1,
        "CourseName": "Math",
        "FirstName": "John",
        "LastName": "Doe",
        "TeacherID": "1234567890123456"
      }
    ]
  }
}
```

```

        "FirstName": "Tony",
        "LastName": "Stark",
        "TeacherID": "10001",
        "ClassroomName": "ClassroomA"
    }
]
}
}

```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code. Data will be invalid when ErrorCode is not 0.
Data	Req.	Object	Returned information structure.

Data Object Description

Parameter	Req. or Opt.	Data Type	Description
ErrorList	Opt.	Array	List of reasons for schedule importing failures.

ErrorList Object Description

Parameter	Req. or Opt.	Data Type	Description
ErrorCode	Req.	Number	Error code.
WeekDay	Req.	Number	Day of the week: 0-Sunday, 1-Monday... 6-Saturday.
Index	Req.	Number	Number of sections. Up to 12 are allowed for a day. Additional ones will not be added.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "Data": {
      "FirstName": "Tony",
      "LastName": "Stark",
      "TeacherID": "10001",
      "ClassroomName": "ClassroomA"
    }
  }
}
```

```

    "ErrorList": [
        {
            "WeekDay": 1,
            "Index": 1,
            "ErrorCode": 8001
        }
    ]
}
}
}

```

5.16.8 POST /artemis/api/Education/v1/AttnData/ClassAttnSummary

Get course attendance summary information.

Request URL

[https://\[serverAddress\]:\[serverPort\]/artemis/api/Education/v1/AttnData/ClassAttnSummary](https://[serverAddress]:[serverPort]/artemis/api/Education/v1/AttnData/ClassAttnSummary)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
MT	Req.	String	Query	Request method: GET.
AttnSummaryRequest	Req.	Object	Body	Request object.
ClassID	Req.	Number	Body	Class ID.
StartTime	Req.	String	Body	Start time, in the format of "yyyy-mm-dd".
EndTime	Req.	String	Body	End time, in the format of "yyyy-mm-dd".

Request Example

```
{
    "AttnSummaryRequest": {
        "ClassID": 0,
        "StartTime": "2023-05-22",
        "EndTime": "2023-05-28"
    }
}
```

```

    }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Data Object Description

Parameter	Req. or Opt.	Data Type	Description
AtndSummaryInfoList	Req.	Array	Course attendance summary list. This parameter is only available and required when course attendance exists.

AtndSummaryInfoList Object Description

Parameter	Req. or Opt.	Data Type	Description
Daily	Req.	Object	Daily attendance details.
WeekDay	Req.	Number	Day of the week: 0-Sunday, 1-Monday... 6-Saturday.
DateTime	Req.	String	Date, in the format of "yyyy-mm-dd".
CourseCount	Req.	Number	Number of courses for the day.
Holiday	Req.	Boolean	Whether it is holiday.
CourseList	Req.	Array	Attendance list, the summary information of each class.

CourseList Object Description

Parameter	Req. or Opt.	Data Type	Description
ClassID	Req.	Number	Class ID.
ClassName	Req.	String	Class name. The maximum length is 64.
TeacherName	Req.	String	Teacher's name. The maximum length is 255.
ClassroomName	Req.	String	Classroom name.
CourseID	Req.	String	Course GUID.
CourseName	Req.	String	Course name.
SectionIndex	Req.	Number	Number of sections.
TimeQuantumBegin	Req.	String	Start time of section.
TimeQuantumEnd	Req.	String	End time of section.
Absence	Req.	Number	Number of absent students.
Attendance	Req.	Number	Number of present students.
AskForLeave	Req.	Number	Number of students on leave.
TotalNum	Req.	Number	Total number of students.
LateNum	Req.	Number	Number of late students.
AttendanceRate	Req.	String	Attendance rate.

Response Example

```
{
  "ResponseStatus": {
    "ErrorCode": 0,
    "ErrorModule": 0,
    "Data": {
      "AttndSummaryInfoList": [
        {
          "Daily": {
            "WeekDay": 0,
            "DateTime": "2023-05-19",
            "CourseCount": 0,
            "Holiday": true,
            "CourseList": [
              ...
            ]
          }
        }
      ]
    }
  }
}
```

```
{
    "ClassID": 0,
    "ClassName": "className",
    "TeacherName": "TeacherName",
    "ClassroomName": "ClassroomName",
    "CourseID": "EEFFGGG",
    "CourseName": "CourseName",
    "SectionIndex": 0,
    "TimeQuantumBegin": "08:00",
    "TimeQuantumEnd": "08:40",
    "Absence": 0,
    "Attendance": 0,
    "AskForLeave": 0,
    "TotalNum": 0,
    "AttendanceRate": "90",
    "LateNum": 0
}
]
}
]
}
}
}
```

5.16.9 POST /artemis/api/Education/v1/AtndData/CourseAtndDetail

Get course attendance details.

Request URL

[https://\[serverAddress\]:\[serverPort\]/api/Education/v1/AtndData/CourseAtndDetail](https://[serverAddress]:[serverPort]/api/Education/v1/AtndData/CourseAtndDetail)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? < >
MT	Req.	String	Query	Request method: GET.
AtndDetailRequest	Req.	Object	Body	Request object.
CourseID	Req.	String	Body	Course GUID.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
SearchCriteria	Opt.	Object	Body	Search criteria. All information will be returned when this parameter is missing or empty.
AttnStatus	Opt.	Array	Body	Attendance status (multi-choice supported): 0-present, 1-present after correction, 2-leave, 3-absent, 4-late.
StudentNameOrNo	Opt.	String	Body	Student name or No., which supports fuzzy search. All students will be included when this parameter is empty. The maximum length is 255.

Request Example

```
{
  "AttnDetailRequest": {
    "CourseID": "EEDDFFFF",
    "SearchCriteria": {
      "AttnStatus": [
        2,
        3
      ],
      "StudentNameOrNo": "Tom"
    }
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Data Object Description

Parameter	Req. or Opt.	Data Type	Description
AttndDetailInfoList	Opt.	Array	Attendance detail list.

AttndDetailInfoList Object Description

Parameter	Req. or Opt.	Data Type	Description
StudentNo	Req.	String	Student No. The maximum length is 16.
StudentName	Req.	String	Student name. The maximum length is 255.
AttendanceStatus	Req.	Number	Attendance result: 0-present, 1-present after correction, 2-leave, 3-absent, 4-late.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "Data": {
      "AttndDetailInfoList": [
        {
          "StudentNo": "12345",
          "StudentName": "Tom",
          "AttendanceStatus": 0
        }
      ]
    }
  }
}
```

5.16.10 POST /artemis/api/Education/v1/AttndData/StudentAttendance

Get attendance result of a specified student in a specified time period.

Request URL

[https://\[serverAddress\]:\[serverPort\]/api/Education/v1/AttndData/StudentAttendance](https://[serverAddress]:[serverPort]/api/Education/v1/AttndData/StudentAttendance)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
MT	Req.	String	Query	Request method: GET.
StudentAttnd Request	Req.	Object	Body	Request object.
PageIndex	Opt.	Number	Body	The current page No., which is between 1 and 2147483647.
PageSize	Opt.	Number	Body	Number of records on each page, which is between 1 and 500.
StudentNo	Req.	String	Body	Student No.
StartTime	Req.	String	Body	Start time, in the format of "yyyy-MM-dd".
EndTime	Req.	String	Body	End time, in the format of "yyyy-MM-dd". The maximum duration between start time and end time is 365 days.
SearchCriteria	Opt.	Object	Body	Search criteria. The default value will be entered when this parameter is missing or empty.
CourseName	Opt.	String	Body	Fuzzy search supported. The results will not be filtered by course name when this parameter is missing or empty.
SortType	Opt.	Number	Body	Sorting order: 0-ascending, 1-descending (default). The results will be sorted by default by attendance result (absent, leave, late, present after correction, and present).

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
SortColumn	Opt.	Number	Body	Sorting type: -1 (no sorting, by default), 0 (by course time), 1 (by course date), 2 (by attendance result; in ascending order: present, present after correction, late, leave, and absent).
AttnStatus	Opt.	Array	Body	Attendance result (multi-choice supported): 0-present, 1-present after correction, 2-leave, 3-absent, 4-late. All attendance results will be returned when this parameter is missing or empty.

Request Example

```
{
  "StudentAttnRequest": {
    "PageIndex": -1,
    "PageSize": -1,
    "StudentNo": "1001",
    "StartTime": "2023-05-01",
    "EndTime": "2023-05-01",
    "SearchCriteria": {
      "CourseName": "English",
      "SortType": 1,
      "SortColumn": -1,
      "AttnStatus": [2,3]
    }
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.

Parameter	Req. or Opt.	Data Type	Description
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Data Object Description

Parameter	Req. or Opt.	Data Type	Description
StudentAttndDetailList	Opt.	Array	Student attendance result list.
TotalNum	Req.	Number	Total number.
PageIndex	Req.	Number	The current page No., which is between 1 and 2147483647.
PageSize	Req.	Number	Number of records on each page, which is between 1 and 500.

StudentAttndDetailList Object Description

Parameter	Req. or Opt.	Data Type	Description
CourseName	Req.	String	Course name.
ClassroomName	Req.	String	Classroom name.
TeacherName	Req.	String	Teacher's name. The maximum length is 255.
ClassName	Req.	String	Class name. The maximum length is 64.
StudentName	Req.	String	Student name. The maximum length is 255.
AttendanceStatus	Req.	Number	Attendance result: 0-present, 1-present after correction, 2-leave, 3-absent, 4-late.
CourseTime	Req.	String	Course time.
StudentNo	Req.	String	Student No. The maximum length is 16.
CourseDate	Req.	String	Course date.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "Data": {
      "StudentAttndDetailList": [
        {
          "CourseName": "English",
          "ClassroomName": "Classroom",
          "TeacherName": "Mr.Zhang",
          "ClassName": "Class1",
          "StudentName": "Tom",
          "AttendanceStatus": 0,
          "CourseTime": "08:00:00-08:40:00",
          "StudentNo": "12345",
          "CourseDate": "2023-05-01"
        }
      ],
      "TotalNum": 1,
      "PageIndex": 1,
      "PageSize": 10
    }
  }
}
```

5.16.11 POST /artemis/api/Education/v1/StudentRetrieval

Get the retrieval records of students at school (including access records, attendance check records, face capture comparison records, etc.).

Request URL

[https://\[serverAddress\]:\[serverPort\]/api/Education/v1/StudentRetrieval](https://[serverAddress]:[serverPort]/api/Education/v1/StudentRetrieval)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
MT	Req.	String	Query	Request method: GET.

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
StudentRetrievalRequest	Req.	Object	Body	Request object.
PageIndex	Opt.	Number	Body	When PageIndex or PageSize is -1 (default value), all records will be returned.
PageSize	Opt.	Number	Body	When PageIndex or PageSize is -1 (default value), all records will be returned.
SearchCriteria	Req.	Object	Body	Search criteria.

SearchCriteria Object Description

Parameter	Req. or Opt.	Data Type	Description
StudentID	Req.	String	Student No, which contains 16 digits of numbers or letters.
StartTime	Req.	String	Start time of search, in the format of "yyyy-MM-dd".
EndTime	Req.	String	End time of search, in the format of "yyyy-MM-dd".

Request Example

```
{
  "StudentRetrievalRequest": {
    "PageIndex": 1,
    "PageSize": 10,
    "SearchCriteria": {
      "StudentID": "10001",
      "StartTime": "2024-03-07",
      "EndTime": "2024-03-09"
    }
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Data Object Description

Parameter	Req. or Opt.	Data Type	Description
StudentRetrieval	Opt.	Object	Search result object.

StudentRetrieval Object Description

Parameter	Req. or Opt.	Data Type	Description
TotalNum	Req.	Number	Total number of search results.
PageIndex	Req.	Number	The current page No.
PageSize	Req.	Number	Number of records on each page.
StudentRetrievalInfo	Req.	Array	List of retrieval records of students.

StudentRetrievalInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
CaptureTime	Req.	String	Record time, in the format of "yyy-MM-dd".
PlaceName	Req.	String	Record location.
RecordPointInfo	Req.	String	Record point.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
```

```

"Data": {
    "StudentRetrieval": {
        "TotalNum": 1,
        "PageIndex": 1,
        "PageSize": 10,
        "StudentRetrievalInfo": [
            {
                "CaptureTime": "2024-03-07T16:22:57+08:00",
                "PlaceName": "Classroom1",
                "RecordPointInfo": "IPdome 01"
            }
        ]
    }
}

```

5.16.12 POST /artemis/api/Education/v1/StudentArrivalRecord

Get the school arrival record of student.

Request URL

[https://\[serverAddress\]:\[serverPort\]/api/Education/v1/StudentArrivalRecord](https://[serverAddress]:[serverPort]/api/Education/v1/StudentArrivalRecord)

Request Parameters

Parameter	Req. or Opt.	Data Type	Parameter Type	Description
userId	Req.	String	Header	User ID, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < >
MT	Req.	String	Query	Request method: GET.
StuPersonArrivalRecordRequest	Req.	Object	Body	Request object.
SearchCriteria	Req.	Object	Body	Search criteria.

SearchCriteria Object Description

Parameter	Req. or Opt.	Data Type	Description
StudentID	Req.	String	Student No, which contains 16 digits of numbers or letters.
StartTime	Req.	String	Start time of search, in the format of "yyyy-MM-dd". The maximum length is 10.
EndTime	Req.	String	End time of search, in the format of "yyyy-MM-dd". The maximum length is 10.

Request Example

```
{
  "StuPersonArrivalRecordRequest": {
    "SearchCriteria": {
      "StudentID": "10001",
      "StartTime": "2024-03-03",
      "EndTime": "2024-03-09"
    }
  }
}
```

Response Parameters

Parameter	Req. or Opt.	Data Type	Description
ResponseStatus	Req.	Object	Returned object.
ErrorModule	Req.	Number	Returned error module.
ErrorCode	Req.	Number	Returned error code.
Data	Req.	Object	Returned information structure.

Data Object Description

Parameter	Req. or Opt.	Data Type	Description
StudentName	Req.	String	Student name. The maximum length is 255.
StudentID	Req.	String	Student No. The maximum length is 16.

Parameter	Req. or Opt.	Data Type	Description
ClassName	Req.	String	Name of student's class. The maximum length is 64.
DayTotalNum	Req.	Number	Total days for statistics. The maximum length is 2.
ArrivalDayNum	Req.	Number	Number of days on which the student arrived at school. The maximum length is 2.
ArrivalDayRecord	Req.	Array	School arrival record list.

ArrivalDayRecord Object Description

Parameter	Req. or Opt.	Data Type	Description
RecordTime	Req.	String	Record date, in the format of "yyyy-MM-dd". The maximum length is 10.
ArrivalState	Req.	Number	Arrival status: 0-not arrived, 1-arrived.
IsHaveCourse	Req.	Number	Whether it is required to arrive at school on the day: 0-no, 1-yes.

Response Example

```
{
  "ResponseStatus": {
    "ErrorModule": 0,
    "ErrorCode": 0,
    "Data": {
      "StudentName": "Tom",
      "StudentID": "10001",
      "ClassName": "Class1",
      "DayTotalNum": 7,
      "ArrivalDayNum": 4,
      "ArrivalDayRecord": [
        {
          "RecordTime": "2023-05-21",
          "ArrivalState": 1,
          "IsHaveCourse": 0
        }
      ]
    }
  }
}
```

Appendix A. Appendixes

A.1 Object Description

A.1.1 accessInfo

The table here shows the visitor's access permission.

Table A-1 accessInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
electrostaticDetectionType	Opt.	Number	Electrostatic discharge testing type: 0-no testing, 1-hand testing, 2- foot testing, 3-hand and foot testing.
qrCodeValidNum	Req.	Number	Number of valid door openings by QR code: 0 by default; valid when it is from 1 to 100.
accessLevel	Opt.	Object	List of access permissions, for visitor reservation only. See details in <u>AccessLevel</u> .

A.1.2 AccessLevel

The table here shows the visitor's access permission.

Table A-2 AccessLevel Object Description

Parameter Name	Req. or Opt.	Data Type	Description
id	Req.	Number	The access level ID.
baseInfo	Req.	<u>BaseInfo</u>	The basic information about the access level.

A.1.3 AcsDevInfo

The table here shows the information of an access control device.

Table A-3 AcsDevInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
acsDevIndexCode	Opt.	String	Access control device ID, which consists of up to 64 characters.
acsDevName	Opt.	String	Access control device name, which consists of up to 32 characters.
acsDevIp	Req.	String	IP address of access control device.
acsDevPort	Req.	String	Port No. of access control device.
acsDevCode	Opt.	String	Serial No. of access control device, which consists of up to 16 characters.
treatyType	Opt.	String	Transfer protocol types, i.e., "hiksdk_net" (Hikvision Private Protocol), and "ehome_reg" (ISUP-Intelligent Security Uplink Protocol).
status	Opt.	Number	Status of the access control device: 0-unknown, 1-online, 2-offline.
timeZone	Opt.	Object	Time zone information, returned for getting the information of an access control device. See details in TimeZoneInfo .

A.1.4 AlarmInputInfo

The table here shows the alarm input information.

Table A-4 AlarmInputInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
alarmInputIndexCode	Opt.	String	Alarm input ID, which consists of up to 64 characters.
alarmInputName	Opt.	String	Alarm input name, which consists of up to 32 characters.
regionIndexCode	Opt.	String	Area ID, which consists of up to 64 characters.

Parameter Name	Req. or Opt.	Data Type	Description
devIndexCode	Opt.	String	Device ID, which consists of up to 64 characters.
devResourceType	Opt.	String	Device resource type, i.e., "acsDevice" (access controller), "encodeDevice" (encoding device), "alarmDevice" (alarm device), and "mobileDevice" (on-board device). And the field can contain up to 32 characters.
networkStatus	Opt.	number	Alarm input status: 0-unknown, 1-online, 2-offline.

A.1.5 AlarmOutputInfo

The table here shows the alarm output information.

Table A-5 AlarmOutputInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
alarmOutputIndexCode	Opt.	String	Alarm output ID, which consists of up to 64 characters.
alarmOutputName	Opt.	String	Alarm output name, which consists of up to 32 characters.
regionIndexCode	Opt.	String	Area ID, which consists of up to 64 characters.
devIndexCode	Opt.	String	Device ID, which consists of up to 64 characters.
devResourceType	Opt.	String	Device resource type, i.e., "acsDevice" (access controller), "encodeDevice" (encoding device), "alarmDevice" (alarm device), and "mobileDevice" (on-board device). And the field can contain up to 32 characters.
status	Opt.	Number	Alarm output status: -1 (unknown), 0 (disabled), 1 (enabled).

A.1.6 AnalyzeCamera

The table here shows the information of cameras linked with intelligent analysis device.

Table A-6 AnalyzeCamera Object Description

Parameter Name	Req. or Opt.	Data Type	Description
analyzeCameraID	Opt.	String	Camera ID.
analyzeCameraName	Opt.	String	Camera name.
analyzeCameraStatus	Opt.	Number	Camera status: 0-normal, 1-abnormal.

A.1.7 AnalyzeDevice

The table here shows the information of intelligent analysis device.

Table A-7 AnalyzeDevice Object Description

Parameter Name	Req. or Opt.	Data Type	Description
analyzeDeviceID	Opt.	String	Intelligent analysis device ID.
analyzeDeviceName	Opt.	String	Intelligent analysis device name.
analyzeDeviceType	Opt.	Number	Intelligent analysis device type: 2-NVR, 3-intelligent analysis server.
analyzeCameraList	Opt.	AnalyzeCamera[]	List of cameras linked with intelligent analysis device. See details in <u>AnalyzeCamera</u> .

A.1.8 AnalyzeTask

The table here shows the information of intelligent analysis task.

Table A-8 AnalyzeTask Object Description

Parameter Name	Req. or Opt.	Data Type	Description
taskID	Opt.	String	Intelligent analysis task ID.
taskName	Opt.	String	Task name.

Parameter Name	Req. or Opt.	Data Type	Description
taskType	Opt.	Number	Task type.
analyzeDeviceList	Opt.	<i>AnalyzeDevice</i> []	List of intelligent analysis devices.
faceMatchGroupList	Opt.	<i>faceMatchGroup</i> []	Face picture comparison group.

A.1.9 appendInfo

The table here shows the extra information of person.

Table A-9 appendInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
infoType	Req.	Number	Information type.
infoValue	Req.	String	Information value. The maximum length is 2048.

A.1.10 ApplicationErrorResult

The table here shows the applying failure information.

Table A-10 ApplicationErrorResult Object Description

Parameter Name	Req. or Opt.	Data Type	Description
pageSize	Opt.	Number	Page size. The maximum length is 64 bytes.
pageNo	Opt.	Number	Number of pages.
applicationFailCount	Opt.	Number	Number of failures to apply data.
list	Req.	Array	List of device error information.
list[0]	Req.	Object	Error information of a device in the list. See details in <i>DeviceError</i> .

A.1.11 ApprovalFlowInfo

The table here shows the visitor reservation review information.

Table A-11 ApprovalFlowInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
approvalFlowCode	Req.	Number	Reservation review No. The maximum length is 64.
id	Opt.	Number	Monitoring list ID, 0 by default. The maximum length is 64.

A.1.12 baseConfig

The table here shows basic configuration information of visitor service.

Table A-12 baseConfig Object Description

Parameter Name	Req. or Opt.	Data Type	Description
qRCodeMode	Req.	Number	QR code mode: 0-static, 1-dynamic..
qRCodeValidity	Opt.	Number	Validity of dynamic QR code, valid only it is a dynamic QR code.
validityUnit	Opt.	Number	Validity unit of dynamic QR code, valid only it is a dynamic QR code: 0-minute, 1-hour, 2-day.

A.1.13 BaseInfo

The table here shows the basic information.

Table A-13 BaseInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
fullName	Opt.	String	Name, the maximum length is 128 characters.

A.1.14 BatteryCapacity

The table shows the battery capacity information.

Table A-14 BatteryCapacity Object Description

Parameter	Req. or Opt.	Data Type	Description
startTime	Opt.	String	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	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".
capacity	Opt.	Number	Remaining battery (in percentage).
statisticStatus	Opt.	Number	Statistics status: 1-normal, 2-no statistics value (not uploaded).

A.1.15 bodyRect

The table here shows information of the detected human body.

Table A-15 bodyRect Object Description

Parameter Name	Req. or Opt.	Data Type	Description
height	Req.	String	Height of detected human body in the picture, normalized to [0.000, 1.000].
width	Req.	String	Width of detected human body in the picture, normalized to [0.000, 1.000].
x	Req.	String	Normalized x-coordinate from the upper-left corner to the right. Range of value: [0.000, 1.000].
y	Req.	String	Normalized y-coordinate from the upper-left corner to the downward. Range of value: [0.000, 1.000].

A.1.16 bodyTargetInfo

The table here shows information of target human body.

Table A-16 bodyTargetInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
monitorPointIndexCode	Req.	String	Camera serial No. The maximum length is 32.
captureTime	Req.	String	Capture time. The maximum length is 64.
similarity	Req.	String	Similarity of the searched pictures. The maximum length is 64.
picUrl	Req.	String	URL for downloading the full picture.
subPicUrl	Req.	String	URL for downloading the thumbnail.
targetRect	Req.	Object	Normalized x-coordinate from the upper-left corner to the right and y-coordinate from the upper-left corner to the downward. Range of value: [0.000, 1.000].
height	Req.	String	Height of detected human body in the picture, normalized to [0.000, 1.000]. The maximum length is 64.
width	Req.	String	Width of detected human body in the picture, normalized to [0.000, 1.000]. The maximum length is 64.
x	Req.	String	Normalized x-coordinate from the upper-left corner to the right. Range of value: [0.000, 1.000]. The maximum length is 64.
y	Req.	String	Normalized y-coordinate from the upper-left corner to the downward. Range of value: [0.000, 1.000]. The maximum length is 64.
gender	Opt.	Enum	0-unknown, 1-male, 2-female.
bag	Opt.	Enum	With backpack or not: 0-unknown, 1-no, 2-yes.
jacketType	Opt.	Enum	Top type: 0-unknown, 1-short sleeves, 2-long sleeves.

Parameter Name	Req. or Opt.	Data Type	Description
trousersType	Opt.	Enum	Bottom type: 0-unknown, 1-shorts, 2-trousers, 3-skirt.
ageGroup	Opt.	Enum	0-unknown, 1-teenager, 2-young adult, 3-middle age, 4-the elderly, 5-infant, 6-child, 7-early youth, 8-prime, 9-middle to old age.
hairStyle	Opt.	Enum	Hairstyle: 0-short hair, 1-long hair, 2-unknown.
jacketColor	Opt.	Enum	Top color: 0-unknown, 1-white, 2-gray, 3-red, 4-dark blue, 5-blue, 6-yellow, 7-brown, 8-pink, 9-purple, 10-dark gray, 11-cyan, 12-orange, 13-mixture, 14-green, 15-silver, 16-black.
trousersColor	Opt.	Enum	Bottom color: 0-unknown, 1-white, 2-gray, 3-red, 4-dark blue, 5-blue, 6-yellow, 7-brown, 8-pink, 9-purple, 10-dark gray, 11-cyan, 12-orange, 13-mixture, 14-green, 15-silver, 16-black.
things	Opt.	Enum	Carrying things or not: 0-unknown, 1-no, 2-yes.
mask	Opt.	Enum	Wear mask or not: 0-unknown, 1-no, 2-yes.

A.1.17 CameraBatteryCapacity

The table shows the camera battery capacity information.

Table A-17 CameraBatteryCapacity Object Description

Parameter	Req. or Opt.	Data Type	Description
cameraIndexCode	Opt.	String	Camera ID, which consists of up to 64 characters.
cameraName	Opt.	String	Camera name, which consists of up to 32 characters.
batteryCapacityList	Opt.	Array	See details in BatteryCapacity .

A.1.18 CameraInfo

The table here shows the information of a camera.

Table A-18 CameraInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
cameraIndexCode	Opt.	String	Camera ID, which consists of up to 64 characters.
cameraName	Opt.	String	Camera name, which consists of up to 32 characters.
capabilitySet	Opt.	String	Capability set, i.e., "vss" (video capability), "event_veh" (vehicle capture capability), "gis" (field of view capability), "event_heat" (thermal capability), "event_pdc" (people counting capability), and "ptz" (PTZ capability). See details in <u>Capability Set</u> .
encodeDevIndexCode	Opt.	String	Encoding device ID, which consists of up to 64 characters.
devResourceType		String	Device resource type (encodeDevice, acsDevice, mobileDevice). See details in <u>Resource Types / Resource Permission Code</u> .
devIndexCode		String	Device ID, which is valid for non-encoding devices.
recordType	Opt.	String	Recording type, i.e., "0" (main recording) and "1" (auxiliary recording). And this field can contain up to 32 characters. See details in <u>Recording Type</u> .
recordLocation	Opt.	String	Storage location of video files, i.e., "0" (central storage), "1" (device storage), "2" (central cluster storage). And this field can contain up to 32 characters. See details in <u>Recording Storage Location</u> .

Parameter Name	Req. or Opt.	Data Type	Description
regionIndexCode	Opt.	String	Area ID, which consists of up to 64 characters.
status	Opt.	Number	Camera status, i.e., 0-unknown, 1-online, 2-offline.
siteIndexCode	Opt.	String	Site ID, which consists of up to 64 characters.
treatyType	Opt.	String	Currently, this extension field is reserved. Transfer protocol types, i.e., "hiksdk_net" (Hikvision Private Protocol), "ehome_reg" (Hikvision Intelligent Security Uplink Protocol), and "onvif_net" (ONVIF Protocol). And this field can contain up to 32 characters. See details in <u>Access Protocol of Device</u> .
treatyTypeName	Opt.	String	Currently, this extension field is reserved. Transfer protocol name, which consists of up to 32 characters.
isSupportWakeUp	Opt.	Number	Whether it supports the wakeup function: 0-no, 1-yes (currently only supported by solar camera). This field consists of up to 32 characters.
wakeUpStatus	Opt.	Number	Wakeup status: 0-awaken, 1-sleeping. This field is valid when the camera is online, and consists of up to 32 characters.

A.1.19 CameraMobileDataTraffic

The table here shows the information of camera mobile data.

Table A-19 CameraMobileDataTraffic Object Description

Parameter	Req. or Opt.	Data Type	Description
cameraIndexCode	Opt.	String	Camera ID, which consists of up to 64 characters.
cameraName	Opt.	String	Camera name, which consists of up to 32 characters.
mobileDataTraffic CameraSum	Opt.	String	Total mobile data.
mobileDataTraffic List	Opt.	Array	See details in MobileDataTraffic .

A.1.20 CameraRecordStatus

The table shows the storage status of a camera linked to the specific Storage Server.

Table A-20 CameraRecordStatus Object Description

Parameter Name	Req. or Opt.	Data Type	Description
cameraIndexCode	Opt.	String	Camera ID, which consists of up to 64 characters.
cameraName	Opt.	String	Camera name, which consists of up to 64 characters.
deviceip	Opt.	String	Device IP address, and the maximum length is 64 bytes.
siteName	Opt.	String	Site name, which consists of up to 64 characters.
regionName	Opt.	String	Area name, which consists of up to 64 characters.
recordingScheduleName	Opt.	String	Recording schedule name, which consists of up to 32 characters.
storageType	Opt.	Number	Storage type: 0-unknown, 1-scheduled video storage, 2-ANR video storage, 3-picture storage.

Parameter Name	Req. or Opt.	Data Type	Description
recordingStatus	Opt.	Number	Recording status: 0-recording, 1-not record, 2-recording exception, 3-searching failed, 4-unknown.
networkStatus	Opt.	Number	Network status: 0-unknown, 1-online, 2-offline.

A.1.21 Card

The table here shows the information of a card .

Table A-21 Card Object Description

Parameter Name	Req. or Opt.	Data Type	Description
cardNo	Opt.	String	Card No.

A.1.22 CertificateStatus

The table here shows the status information of applying visitor's credential to device.

Table A-22 CertificateStatus Object Description

Parameter Name	Req. or Opt.	Data Type	Description
type	Req.	Number	Credential type: 0-physical card, 1-fingerprint, 2-face picture, 3-iris.
id	Req.	Number	Credential ID.
status	Req.	Number	Status of credential application: 0-applied, 1-to be applied, 2-applying failed.
errorModule	Req.	Number	The module where the application failed or error occurred.
errorCode	Req.	Number	Error code of the failed application.

A.1.23 characterInfo

The table here shows the text content information.

Table A-23 characterInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
contentList	Req.	Array	Text content list. Up to 1 piece of data can be transmitted at a time.
content	Req.	String	Text content.
playTime	Req.	Number	Display duration of text content.

A.1.24 CustomField

The table here shows the custom information about a person.

Table A-24 CustomField Object Description

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt.	String	Custom feature ID.
customFileName	Opt.	String	Custom feature name, which consists of up to 32 characters.
customFieldType	Opt.	Number	Text type: 0 (normal text, which consists of 0 to 128 characters and cannot contain '/ \ : * ? " < >), 1 (numeric text, which consists of up to 32 digits), 2 (date text, its format is YYYY/MM/DD hh:mm:ss) , 3 (single selection).
customFieldValue	Opt.	String	Value of the custom feature, which consists of up to 128 characters. When the value of customFieldType is 3, this parameter indicates the preset value ID of the CustomField object.
presetValueList	Opt.	Array	Preset value list.
presetValueList[0]	Opt.	<u>PresetValue</u>	Information about a preset value in the list.

Parameter Name	Req. or Opt.	Data Type	Description
isPublic	Opt.	Bool	False-private (by default), true-public.
isShow	Opt.	Bool	False-not displayed in the person list, true-displayed in the person list (by default).

A.1.25 dataSourceBatchUpdateList

The table here shows the information of data resource update in a batch.

Table A-25 dataSourceData Object Description

Parameter Name	Req. or Opt.	Data Type	Description
dataSourceBatchUpdateList	Req.	Array	Information of data resource update in a batch.
dataSourceUUID	Req.	String	Data source UUID.
dataType	Req.	String	Data source type: "pic" (picture), "character" (text), "table" (table).
dataUpdateType	Req.	String	Update type: "cover" (overwrite), "add".
maxMaterialNum	Req.	Number	Number of a single data source cached in the digital signage terminal. This node is valid only to picture and text, and when dataUpdateType is "add".
picInfo	Opt.	Object	Picture information. This node is valid when dataType is "pic". See details in <u>picInfo</u> .
characterInfo	Opt.	Object	Text content information. See details in <u>characterInfo</u> .
tableInfo	Opt.	Object	Table information. See details in <u>tableInfo</u> .

A.1.26 dataSourceData

The table here shows the information of data resource update.

Table A-26 dataSourceData Object Description

Parameter Name	Req. or Opt.	Data Type	Description
dataType	Req.	String	Data source type: "pic" (picture), "character" (text), "table" (table).
dataUpdateType	Req.	String	Update type: "cover" (overwrite), "add".
maxMaterialNum	Req.	Number	Number of a single data source cached in the digital signage terminal. This node is valid only to picture and text, and when dataUpdateType is "add".
picInfo	Opt.	Object	Picture information. This node is valid when dataType is "pic". See details in <u>picInfo</u> .
characterInfo	Opt.	Object	Text content information. See details in <u>characterInfo</u> .
tableInfo	Opt.	Object	Table information. See details in <u>tableInfo</u> .

A.1.27 DeviceError

The table here shows the error information of a device.

Table A-27 DeviceError Object Description

Parameter Name	Req. or Opt.	Data Type	Description
deviceName	Opt.	String	Device name. The maximum length is 32 bytes.
errorList	Opt.	Array	Error details list.
errorList[0]	Opt.	Object	Details of an error in the list. See details in <u>RelatedErrorInfo</u> .

A.1.28 DoorControlResult

The table here shows the information of an access point control result.

Table A-28 DoorControlResult Object Description

Parameter Name	Req. or Opt.	Data Type	Description
doorIndexCode	Req.	String	Access point ID, which consists of up to 64 characters.
controlResultCode	Req.	Number	Control status code of access point, i.e., 0-succeeded, other codes-failed (refer to <u>Status or Error Code</u> for details).
controlResultDesc	Opt.	String	Control status description of access point, refer to <u>Status or Error Code</u> for details.

A.1.29 DoorInfo

The table here shows the information of an access point.

Table A-29 DoorInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
doorIndexCode	Opt.	String	Access point ID, which consists of up to 64 characters.
doorName	Opt.	String	Access point name, which consists of up to 32 characters.
doorNo	Opt.	String	Access point No. (or door No.), which consists of up to 16 characters.
doorState	Opt.	Number	Door status: 0-door remain open, 1-door closed, 2-door open, 3-door remain closed, 4-offline. This field represents the door status for entry direction when doorOutState is not -1.
doorOutState	Opt.	Number	Door status for exit direction: -1 (invalid field, which indicates there is no status for exit direction), 0 (remain open), 1 (closed), 2 (open), 3 (remain closed), 4 (offline).

Parameter Name	Req. or Opt.	Data Type	Description
acsDevIndexCode	Opt.	String	Access control device ID, which consists of up to 64 characters.
regionIndexCode	Opt.	String	Area ID, which consists of up to 64 characters.

A.1.30 ElementDetail

The table here shows the information of access level application information.

Table A-30 ElementDetail Object Description

Parameter Name	Req. or Opt.	Data Type	Description
elementID	Req.	Number	Device ID.
Baseinfo	Req.	String[]	Basic device information. See details in <u>ElementDetailBaseInfo</u> .
ElementStatus	Req.	String[]	Status information of the device. See details in <u>ElementStatus</u> .
CertificateStatusList	Req.	CertificateStatusList[]	Status information of applying visitor's credential to device. See details in <u>CertificateStatus</u> .

A.1.31 ElementDetailBaseInfo

The table here shows the information of the device which the access level is applied to.

Table A-31 ElementDetailBaseInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
elementName	Req.	String	Device name.
elementType	Req.	Number	Device type: 6-door, 11-floor.
elementNetwork	Req.	Number	Network status of device: 0-offline, 1-online.

A.1.32 ElementList

The table here shows the resource list information.

Table A-32 ElementList Object Description

Parameter Name	Req. or Opt.	Data Type	Description
ElementList	Req.	Array	Resource list.
ElementList[0]	Req.	Object	See the table below.

Table A-33 Element Object Description

Parameter Name	Req. or Opt.	Data Type	Description
ID	Req.	Number	Resource ID.
BaseInfo	Req.	Object	Resource basic information, see the table below.

Table A-34 BaseInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
ElementType	Req.	Number	Logical resource type.
Name	Req.	String	Resource name.
AreaName	Req.	String	Area name.
AreaID	Req.	Number	Resource area ID.

A.1.33 ElementStatus

The table here shows the status information of the device which the access level is applied to.

Table A-35 ElementStatus Object Description

Parameter Name	Req. or Opt.	Data Type	Description
elementStatus	Req.	Number	Application status of the access level to the device.
elementErrorModule	Req.	Number	The module where the application failed or error occurred.
elementErrorCode	Req.	Number	Error code of the failed application.

A.1.34 EncodeDevInfo

The table here shows the information of an encoding device.

Table A-36 EncodeDevInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
encodeDevIndexCode	Optional	String	Encoding device ID, which consists of up to 64 characters.
encodeDevName	Optional	String	Encoding device name, which consists of up to 32 characters.
encodeDevIp	Required	String	IP address of encoding device
encodeDevPort	Required	String	Port No. of encoding device.
encodeDevCode	Optional	String	Serial No. of encoding device, which consists of up to 16 characters.
treatyType	Optional	String	Transfer protocol types, i.e., "hiksdk_net" (Hikvision Private Protocol), "ehome_reg" (Hikvision Intelligent Security Uplink Protocol), and "onvif_net" (ONVIF Protocol).
status	Opt.	Number	Status of the encoding device: 0-unknown, 1-online, 2-offline.
isSupportWakeUp	Opt.	Number	Whether it supports the wakeup function: 0-no, 1-yes (currently only supported by solar camera). This field consists of up to 32 characters.
wakeUpStatus	Opt.	Number	Wakeup status: 0-awaken, 1-sleeping. This field is valid when the camera is online, and consists of up to 32 characters.
timeZone	Opt.	Object	Time zone information, returned for getting the information of an access

Parameter Name	Req. or Opt.	Data Type	Description
			control device. See details in <u>TimeZoneInfo</u> .
pictureStorePostType	Req.	Number	Picture storage location: 0- not configured, 2-local storage, 4-cloud storage, 5-PC NVR, 6-NVR.

A.1.35 ErrorcodeApprovalReviewInfo

Table A-37 ErrorcodeApprovalReviewInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
errorCode	Opt.	Number	Error code. The maximum length is 64.
visitorID	Opt.	Number	Visitor ID. The maximum length is 64.
approvalFlowCode	Opt.	String	Visitor reservation review No. The maximum length is 128.
visitorName	Opt.	String	Visitor's name. The maximum length is 128.

A.1.36 eventLabelList

The table here shows information of event tags.

Table A-38 eventLabelList Object Description

Parameter Name	Req. or Opt.	Data Type	Description
labelCode	Req.	String	Tag ID. The maximum length of this field is 32.
labelEvent	Req.	Number	Tag type: 2 (person-detection tag), 4 (vehicle-detection tag).
startTime	Req.	String	Start time of the tag, which is in ISO 8601 standard time format: yyyy-MMdd'T'HH:mm:ss.SSSzzz, e.g., 2018-07-26T15:00:00 + 08:00. And

Parameter Name	Req. or Opt.	Data Type	Description
			the time consists of up to 64 characters.
endTime	Req.	String	End time of the tag, which is in ISO 8601 standard time format: yyyy-MMdd'T'HH:mm:ss.SSSzzz, e.g., 2018-07-26T15:00:00 + 08:00. And the time consists of up to 64 characters.

A.1.37 eventList

The table here shows information of the event.

Table A-39 eventList Object Description

Parameter Name	Req. or Opt.	Data Type	Description
eventCode	Req.	Number	Event ID.
eventType	Req.	Number	Event type.
eventName	Req.	String	Event name. The maximum length is 256.
raw(eventName)	Req.	String	Original event name. The maximum length is 256.
description	Req.	String	Event description.
eventCategory	Req.	Number	Event category: 100651-HEOP event, 100652-AIOP event.

A.1.38 EventPic

The table here shows the event picture information.

Table A-40 EventPic Object Description

Parameter Name	Req. or Opt.	Data Type	Description
eventPicUri	Opt.	String	URL of the event picture, the maximum length is 256 characters.
picType	Opt.	Number	Picture type: 1 (picture reported by the device), 2 (picture captured by linkage).

A.1.39 EventRecord

The table here shows the information of an event record.

Table A-41 EventRecord Object Description

Parameter Name	Req. or Opt.	Data Type	Description
eventIndexCode	Req.	String	Event ID, which consists of up to 64 characters.
eventType	Req.	String	Event type, refer to <u>Event Types or Alarm Categories</u> for details.
srcType	Req.	String	Event source type: "acsDevice" (access controller), "door" (access point), "encodeDevice" (encoding device), "camera", "ioIn" (alarm input), "generalEventRule" (general event). And the field can contain up to 64 characters. Refer to <u>Event Types or Alarm Categories</u> for details.
srcIndex	Req.	String	Event source No., which consists of up to 64 characters.
subSrcType	Opt.	String	Event source type, which is available for search of license plate matched or mismatched event. The maximum length is 64 bytes.
subSrcIndex	Opt.	String	Event source No, which is available for search of license plate matched or mismatched event, and the vehicle group ID is returned. Each two No.

Parameter Name	Req. or Opt.	Data Type	Description
			should be separated by comma. The maximum length is 1024 bytes.
description	Opt.	String	Event description information, which consists of up to 1024 characters.
startTime	Req.	String	Event occurred time, which is in ISO 8601 standard time format: yyyy-MM-ddTHH:mm:ss+current zone, e.g., 2018-07-26T15:00:00+08:00. And the time consists of up to 64 characters.
stopTime	Opt.	String	Stop time of event, which is in ISO 8601 standard time format: yyyy-MM-ddTHH:mm:ss+current zone, e.g., 2018-07-26T15:00:00+08:00. And the time consists of up to 64 characters.
eventPicUri	Opt.	String	Event picture URL, and the maximum length is 256 characters.
eventPicList	Opt.	Array	Event picture list.
eventPicList[0]	Opt.	<u>EventPic</u>	Event picture information.
linkCameraIndexCode	Opt.	String	The linked camera ID, which consists of up to 1024 characters.
plateNo	Req.	String	The license plate number.
vehicleGroupIndexCode	Req.	String	Vehicle group ID.
vehicleBrand	Opt.	Number	Vehicle brand. Refer to <u>Data Dictionary</u> . Available for search of license plate matched or mismatched event
vehicleType	Opt.	Number	Vehicle type. Refer to <u>Data Dictionary</u> . Available for search of license plate matched or mismatched event
vehicleColor	Opt.	Number	Vehicle color. Refer to <u>Data Dictionary</u> . Available for search of license plate matched or mismatched event

Parameter Name	Req. or Opt.	Data Type	Description
country	Opt.	Number	Country/region. Refer to <u>Data Dictionary</u> . Available for search of license plate matched or mismatched event
vehicleDirectionType	Opt.	Number	Direction. 0 (others); 1 (from far to near); 2 (from near to far). Available for search of license plate matched or mismatched event.
ownerName	Opt.	String	Vehicle owner name, which is available for search of license plate matched or mismatched event.
contact	Opt.	String	Owner contact information, which is available for search of license plate matched or mismatched event.
vehicleSpeed	Opt.	Number	Vehicle speed, which is available for search of license plate matched or mismatched event.

A.1.40 face

The table here shows the information of a face.

Table A-42 face Object Description

Parameter Name	Req. or Opt.	Data Type	Description
faceData	Req.	String	A data string of face picture encoded by Base64.

A.1.41 FaceGroupInfo

The table here shows the information of a face picture library.

Table A-43 FaceGroupInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
indexCode	Req.	String	Face picture library ID, and it consists of up to 64 characters.
name	Req.	String	Name of face picture library, which consists of up to 32 characters.
description	Req.	String	Description information, and it can contain up to 128 characters.

A.1.42 FaceInfo

The table here shows the information of a face.

Table A-44 FaceInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
personGivenName	Req.	String	Person's given name; the total length of given name and family name cannot be longer than 255 characters.
personFamilyName	Req.	String	Person's family name; the total length of given name and family name cannot be longer than 255 characters.
sex	Opt.	String	The person linked with the face information: "1"-male, "2"-female, "0"-unknown.

A.1.43 facePic

The table here shows the information of a face picture.

Table A-45 facePic Object Description

Parameter Name	Req. or Opt.	Data Type	Description
faceBinaryData	Opt.	String	A binary data string of face picture, which is encoded by Base64. The picture size must be between 10 KB and 100 KB, and the format should be JPG.

A.1.44 faceMatchGroup

The table here shows the information of face picture library.

Table A-46 faceMatchGroup Object Description

Parameter Name	Req. or Opt.	Data Type	Description
faceMatchGroupID	Opt.	String	Linked face picture library ID.
faceMatchGroupName	Opt.	String	Linked face picture library name.
faceMatchGroupStatus	Opt.	Number	Linked face picture library status: 0-normal, 1-abnormal.

A.1.45 FaceMatchRecord

The table here shows the face picture comparison information.

Table A-47 FaceMatchRecord Object Description

Parameter Name	Req. or Opt.	Data Type	Description
recordIndexCode	Req.	String	Record ID.
cameraInfo	Req.	Object	Camera information.
cameraIndexCode	Req.	String	Camera ID.
cameraName	Req.	String	Camera name.
faceGroupInfo	Req.	Object	Face picture library information.
faceGroupIndexCodes	Req.	String	Face picture library ID.
faceGroupName	Req.	String	Face picture library name.
PersonInfo	Req.	Object	Face picture coordinates.
personId	Req.	String	Person ID, GUID allocated by system and for internal use. The maximum length is 64.
personCode	Req.	String	Person code, a customized employee ID when you add the person, which cannot be modified once set. The maximum length is 16.
personName	Req.	String	Name, the maximum length is 512 characters.

Parameter Name	Req. or Opt.	Data Type	Description
personFamilyName	Req.	String	Person's family name, the maximum length is 256 characters.
personGivenName	Req.	String	Person's given name, the maximum length is 256 characters.
similarity	Req.	Number	Similarity between the picture in the library and the captured picture.
faceTime	Req.	String	Time when the picture is captured.
snapFacePicUrl	Req.	String	URL of the captured picture.
faceRect	Req.	Object	Face coordinate information.
height	Req.	Number	Height.
width	Req.	Number	Width.
x	Req.	Number	X coordinate.
y	Req.	Number	Y coordinate.
bkgPicUrl	Opt.	String	URL of the background picture.
bkgRect	Opt.	Object	Coordinate information of the background picture.
height	Opt.	Number	Height.
width	Opt.	Number	Width.
x	Opt.	Number	X coordinate.
y	Opt.	Number	Y coordinate.
temperatureData	Req.	String	Temperature.
temperatureStatus	Req.	Number	Temperature status: -1 (all), 0 (unknown), 1 (normal), 2 (exception).
wearMaskStatus	Req.	Number	Whether a wearing mask: -1 (all), 0 (unknown), 1 (yes), 2 (no).
gender	Opt.	Number	0 (unknown), 1 (male), 2 (female).
ageGroup	Opt.	Number	Age group.
glasses	Opt.	Number	Whether wearing glasses: 0 (unknown), 1 (yes), 2 (no), 3 (sunglasses).
smile	Req.	Number	Smile or not: 1 (unknown), 2 (no), 3 (smile).

A.1.46 faceTargetInfo

The table here shows the information of the target face.

Table A-48 faceTargetInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
code	Req.	Number	Serial No. The maximum length is 32.
captureTime	Req.	String	Capture time. The maximum length is 64.
monitorPointIndex	Req.	String	Camera serial No. The maximum length is 32.
picUrl	Req.	String	URL for downloading the full picture.
subPicUrl	Req.	String	URL for downloading the thumbnail.
similarity	Req.	String	Similarity of the searched pictures. The maximum length is 64.
faceRect	Req.	Object	Coordinate box for the face. Normalized x-coordinate from the upper-left corner to the right and y-coordinate from the upper-left corner to the downward. Range of value: [0.000, 1.000].
height	Req.	String	Height of detected face in the picture, normalized to [0.000, 1.000]. The maximum length is 64.
width	Req.	String	Width of detected face in the picture, normalized to [0.000, 1.000]. The maximum length is 64.
x	Req.	String	Normalized x-coordinate from the upper-left corner to the right. Range of value: [0.000, 1.000]. The maximum length is 64.
y	Req.	String	Normalized y-coordinate from the upper-left corner to the downward. Range of value: [0.000, 1.000]. The maximum length is 64.
currTemperature	Opt.	String	Face temperature. The maximum length is 32.

Parameter Name	Req. or Opt.	Data Type	Description
thermometryUnit	Opt.	Enum	Temperature unit: 0-Celsius, 1-Fahrenheit, 2-Kelvin.
mask	Opt.	Enum	Wear mask or not: 0-unknown, 1-no, 2-yes.
gender	Opt.	Enum	0-unknown, 1-male, 2-female.
glasses	Opt.	Enum	Wearing glasses or not: 0-no, 1-wearing sunglasses, 2-unknown, 2-yes.
smile	Opt.	Enum	Smiling or not: 0-no, 1-unknown, 2-yes.
ageGroup	Opt.	Enum	0-teenager, 1-infant, 2-child, 3-middle age, 4-middle to old age, 5-the elderly, 6-prime, 7-early youth, 8-unknown, 9-young adult.

A.1.47 faceTargets

The table here shows the information of face modeling.

Table A-49 faceTargets Object Description

Parameter Name	Req. or Opt.	Data Type	Description
targetModelData	Req.	String	Face modeling data.
faceRect	Req.	Object	Coordinate box for the face. Normalized x-coordinate from the upper-left corner to the right and y-coordinate from the upper-left corner to the downward. Range of value: [0.000, 1.000].
height	Req.	String	Height of detected face in the picture, normalized to [0.000, 1.000]. The maximum length is 64.
width	Req.	String	Width of detected face in the picture, normalized to [0.000, 1.000]. The maximum length is 64.

Parameter Name	Req. or Opt.	Data Type	Description
x	Req.	String	Normalized x-coordinate from the upper-left corner to the right. Range of value: [0.000, 1.000]. The maximum length is 64.
y	Req.	String	Normalized y-coordinate from the upper-left corner to the downward. Range of value: [0.000, 1.000]. The maximum length is 64.

A.1.48 FingerPrint

The table here shows the information of a fingerprint.

Table A-50 FingerPrint Object Description

Parameter Name	Req. or Opt.	Data Type	Description
fingerPrintIndexCode	Opt.	String	Fingerprint ID, which consists of up to 64 characters.
fingerPrintName	Opt.	String	Fingerprint name, which consists of up to 64 characters.
fingerPrintData	Opt.	String	Fingerprint data, which consists of up to 1024 characters. If this field is not configured, the previous fingerprint data will be used.
relatedCardNo	Opt.	String	The linked card No. The maximum length is 20 bytes.

A.1.49 fingerPrintUpdateResult

This table shows the a fingerprint updating result.

Table A-51 fingerPrintUpdateResult Object Description

Parameter Name	Req. or Opt.	Data Type	Description
fingerPrintName	Req.	String	Fingerprint name. The maximum length is 64 bytes.
errorCode	Req.	String	Error code returned when failed. See details in Status or Error Code .
errorDesc	Opt.	String	Error description. See details in Status or Error Code .

A.1.50 FloorInfo

The table here shows the floor information.

Table A-52 FloorInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
floorIndexCode	Req.	String	Floor ID.
floorName	Req.	String	Floor name.
parkingLotIndexCode	Req.	String	Parking lot ID.
parkingLotName	Req.	String	Parking lot name.

A.1.51 FloorOverViewInfo

The table here shows the floor overview.

Table A-53 FloorOverViewInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
floorIndexCode	Req.	String	Floor ID.
floorName	Req.	String	Floor name.
parkingLotIndexCode	Req.	String	Parking lot ID.
totalSpaceNum	Req.	Number	Total number of parking spaces on the floor.

Parameter Name	Req. or Opt.	Data Type	Description
freeSpaceNum	Req.	Number	Number of vacant parking spaces on the floor.
spaceTypeOverView	Req.	Array	List of all parking space types.
spaceTypeOverView[0]	Req.	<i>SpaceTypeOverViewInfo</i>	Information about a parking space type.

A.1.52 ForbiddenVehicleInfo

The table here shows information of the vehicle in the blocklist.

Table A-54 ForbiddenVehicleInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
vehicleIndexCode	Req.	String	Blocklist vehicle ID, which consists of up to 32 characters.
plateLicense	Req.	String	License plate number, which consists of 1 to 32 characters, but cannot contain special characters like '/ \ : * ? " < > .
personGivenName	Req.	String	Person's given name, which consists of 1 to 16 characters, but cannot contain special characters like '/ \ : * ? " < > .
personFamilyName	Req.	String	Person's family name, which consists of 1 to 16 characters, but cannot contain special characters like '/ \ : * ? " < > .
phoneNo	Req.	String	Contact number, which can contain numbers from 0-9, and special characters + and -. The maximum length is 32.
description	Req.	String	Vehicle description, which consists of 1 to 128 characters, but cannot contain special characters like '/ \ : * ? " < > .

Parameter Name	Req. or Opt.	Data Type	Description
effectiveDate	Req.	String	Start time of blocking, 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".
expiredDate	Req.	String	End time of blobking, 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.1.53 GeneralEventRule

The table here shows information of generic event rule.

Table A-55 GeneralEventRule Object Description

Parameter Name	Req. or Opt.	Data Type	Description
generalEventRuleIndexCode	Opt.	String	Generic event rule ID, which consists of up to 64 characters.
generalEventRuleName	Req.	String	Name of the generic event rule, which consists of up to 32 characters.
transportType	Req.	Number	Transmission type: 0-TCP, 1-UDP, 2-HTTP, 3-HTTPS.
matchType	Req.	Number	Match type: 0-search (the received data package must contain the text specified in expression , but may also have more content), 1-match (the received data package must contain exactly the text specified in expression , and nothing else). The maximum length is 64 characters.
expression	Req.	String	Description of the regular expression, which consists of up to 256 characters.
regularExpression	Req.	String	Regular expression of the generic event rule.

A.1.54 gpsInfo

The table here shows the GPS information.

Table A-56 gpsInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
occurTime	Req.	String	GPS report time. The maximum length is 32 characters.
longitude	Req.	Float	Longitude. The maximum length is 16 characters.
latitude	Req.	Float	Latitude. The maximum length is 16 characters.
direction	Req.	Number	Vehicle direction (calculated clockwise from due north (0); the actual degree * 100; [0, 36000]).
gpsDisplay	Req.	String	Displayed GPS information. The maximum length is 32 characters.
directionDisplay	Req.	String	Displayed direction ("North", "Northeast", "East", "Southeast", "South", "Southwest", "West", "Northwest"). The maximum length is 16 characters.
speed	Req.	Float	Speed (consistent with the platform: km/h by default). The maximum length is 16 characters.

A.1.55 HDDInfo

The table shows the information of a HDD.

Table A-57 HDDInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
poolID	Opt.	String	Resource pool ID, which consists of up to 32 characters.
poolName	Opt.	String	Resource pool name, which consists of up to 64 characters.

Parameter Name	Req. or Opt.	Data Type	Description
Status	Opt.	Number	HDD status. Currently, this parameter is reserved.
Capacity	Opt.	Number	HDD capacity, unit: MB.
FreeSpace	Opt.	Number	Free space of HDD, unit: MB.
UsedSpace	Opt.	Number	HDD usage, unit: MB.

A.1.56 IdentityFace

The table here shows the results of identity verification in one versus multiple mode.

Table A-58 IdentityFace Object Description

Parameter Name	Req. or Opt.	Data Type	Description
similarity	Opt.	String	Similarity between the current face picture and the face picture uploaded.
faceGroupIndexCode	Opt.	String	Face picture group ID.
faceInfo	Opt.	<i>IdentityFaceInfo</i>	Face information of identity verification.

A.1.57 IdentityFaceInfo

The table here shows the face information of identity verification.

Table A-59 IdentityFaceInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
indexCode	Opt.	String	Person ID in the face picture library.
personGivenName	Opt.	String	Person's given name.
personFamilyName	Opt.	String	Person's family name.
sex	Opt.	Number	1-male, 2-female, 0-unknown.
facePic	Opt.	Object	Face picture.
faceUrl	Opt.	String	Face picture URL returned by device.

A.1.58 IntelligentServerInfo

The table shows the information of an intelligent analysis server.

Table A-60 IntelligentServerInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
intelligentServerIndexCode	Opt.	String	Intelligent analysis server ID, which consists of up to 64 characters.
intelligentServerName	Opt.	String	Intelligent analysis server name, which consists of up to 64 characters.
intelligentServerIp	Opt.	String	IP address of intelligent analysis server, whose maximum length is 64 bytes.
status	Opt.	Number	Network status: 0-unknown, 1-online, 2-offline.
intelligentServerType	Opt.	Number	Server type: 1-facial recognition server, 2-edge server, 3-abnormal event detection server.

A.1.59 material

The table here shows the information of material.

Table A-61 material Object Description

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt.	Number	Material ID.
materialName	Opt.	String	Material name.
materialRemarks	Opt.	String	Material remarks.
materialType	Opt.	String	Material type: "video", "picture".
uploadUser	Opt.	String	Upload user.
uploadTime	Opt.	String	Upload time.
areaNo	Opt.	Number	Belonged area ID.

A.1.60 materialMoreSearchDescription

The table here shows the information of material search condition.

Table A-62 materialMoreSearchDescription Object Description

Parameter Name	Req. or Opt.	Data Type	Description
areaID	Opt.	Number	Area ID. "-1" indicates getting all data.
includeSubArea	Opt.	Boolean	Whether to include sub areas.
pageSize	Req.	Number	Number of records on each page, (0, 100].
pageNo	Req.	Number	The current page No., [0, 2147483648).
sortBy	Opt.	String	Sorting field: "materialSize", "shareProperty", "uploadTime", "materialName".
orderMode	Opt.	String	Sorting type: "ascend", "descend".
keyword	Opt.	String	Fuzzy search keyword: material name, upload user, material description.
MaterialTypeList	Opt.	staticMaterialTypeList[]	List of static material types. When this node is empty, both "picture" and "video" are included.
MaterialTypeList[0]	Opt.	String	Static material type: "picture", "video".

A.1.61 MobileDataTraffic

The table shows the mobile data information.

Table A-63 MobileDataTraffic Object Description

Parameter	Req. or Opt.	Data Type	Description
startTime	Opt.	String	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	End time in ISO 8601 format, which is represented by "yyyy-MM-

Parameter	Req. or Opt.	Data Type	Description
			ddTHH:mm:ss +current time zone", e.g., "2018-07-26T15:00:00+08:00".
signalStrength	Opt.	Number	Signal strength.
mobileDataTrafficSum	Opt.	String	Mobile data statistics, unit: MB.
statisticStatus	Opt.	Number	Statistics status: 1-normal, 2-no statistics value (not uploaded).

A.1.62 MobileDeviceInfo

The table here shows the on-board device information.

Table A-64 MobileDeviceInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
mobileDevIndexCode	Opt.	String	On-board device ID. The maximum length is 64 characters.
mobileDevName	Opt.	String	On-board device name. The maximum length is 32 characters.
mobileDevIp	Opt.	String	On-board device IP. The maximum length is 16 characters.
mobileDevPort	Opt.	String	On-board device port. The maximum length is 16 characters.
mobileDevCode	Opt.	String	On-board device No. The maximum length is 16 characters.
treatyType	Opt.	String	Access protocol. The maximum length is 16 characters. See details in <u>Access Protocol of Device</u> .
status	Opt.	Number	Online status (0-unknown, 1-online, 2-offline).
timeZone	Opt.	Object	Time zone information, returned for getting the information of an access control device. See details in <u>TimeZoneInfo</u> .

A.1.63 MobilevehicleInfo

The table here shows the information of vehicles linked to on-board devices.

Table A-65 MobilevehicleInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
mobilevehicleIndexCode	Req.	String	ID of vehicle linked to the on-board device. The maximum length is 128 characters.
mobilevehicleName	Req.	String	Name of vehicle linked to the on-board device. The maximum length is 256 characters.
DevIndexCode	Req.	String	Device ID. The maximum length is 128 characters.
regionIndexCode	Req.	String	Area ID. The maximum length is 128 characters.
status	Req.	Number	Online status (0-unknown, 1-online, 2-offline).
plateNo	Req.	String	License plate number of the vehicle. The maximum length is 16 characters.
personName	Req.	String	Person name. The maximum length is 64 characters.
personFamilyName	Opt.	String	Family name of the person. The maximum length is 64 characters.
personGivenName	Opt.	String	Given name of the person. The maximum length is 64 characters.
phoneNo	Opt.	String	Contact number. The maximum length is 20 characters.
vehicleColor	Opt.	Number	Vehicle color. See details in <u>Vehicle Color</u> .
vehicleType	Opt.	Number	Vehicle type. See details in .
vehicleBrand	Opt.	Number	Vehicle brand. See details in .

A.1.64 OrgInfo

The table here shows the information of an organization.

Table A-66 OrgInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
orgIndexCode	Opt.	String	Organization ID, which consists of up to 64 characters.
orgName	Opt.	String	Organization name, which consists of up to 64 characters.
parentOrgIndexCode	Opt.	String	Parent organization ID, which consists of up to 64 characters.

A.1.65 ParkingFeeCalculate

The table here shows the information for parking fee calculation.

Table A-67 ParkingFeeCalculate Object Description

Parameter Name	Req. or Opt.	Data Type	Description
plateLicense	Opt.	String	License plate number, the maximum length is 32 characters.
parkingInTime	Req.	String	Time when the vehicle entered the parking lot.
parkingDuration	Opt.	Number	Total parking duration, unit: second.
feeRuleType	Opt.	Number	parking fee type: 0-rule for temporary vehicles, 1-rule for registered vehicles, 2-rule for parking pass, 4-rule for exceptional pass.
feeRuleIndexCode	Opt.	String	Parking fee rule ID.
feeRuleName	Opt.	String	Parking fee rule name.
fee	Opt.	String	Parking fee.

A.1.66 ParkingFeeConfirm

The table here shows the information for parking fee confirmation.

Table A-68 ParkingFeeConfirm Object Description

Parameter Name	Req. or Opt.	Data Type	Description
fee	Req.	String	Parking fee.
feeTime	Req.	String	Time when fee is charged.

A.1.67 ParkingLotInfo

The table here shows the information about a parking lot.

Table A-69 ParkingLotInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
parkingLotIndexCode	Req.	String	Parking lot ID.
parkingLotName	Req.	String	Parking lot name.
parentParkingLotIndexCode	Opt.	String	Parent parking lot ID (if exists).
totalSpaceNum	Req.	Number	Total number of parking spaces.
freeSpaceNum	Req.	Number	Number of vacant parking spaces.
totalPermanentSpaceNum	Req.	Number	Total number of parking spaces for registered vehicles.
freePermanentSpaceNum	Req.	Number	Number of vacant parking spaces for registered vehicles.
maxParkingTime	Req.	Number	Max. parking duration (hour).

A.1.68 ParkingRecordInfo

The table here shows the information about a vehicle parking record.

Table A-70 ParkingRecordInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
guid	Req.	Number	Vehicle parking record ID.
parkingLotIndexCode	Req.	String	Parking lot ID.
parkingLotName	Req.	String	Parking lot name.
floorIndexCode	Req.	String	Floor ID.
floorName	Req.	String	Floor name.
parkingSpaceSerial	Req.	String	Parking space serial No.
plateLicense	Req.	String	License plate number.
parkingStatusType	Req.	Number	Status: 0 (parking), 1 (exited).
occurTime	Req.	String	Time when the vehicle entered/exited the parking space.
duration	Opt.	Number	Parking duration (if the vehicle has exited). The unit is second.

A.1.69 ParkingSpaceInfo

The table here shows the information about a parking space.

Table A-71 ParkingSpaceInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
spaceIndexCode	Req.	String	Parking space ID.
floorIndexCode	Req.	String	Floor ID.
spaceType	Req.	Number	Parking space type: 1 (general), 2 (allowed), 3 (forbidden), 4 (charging), 5 (private), 6 (registered), 7 (temporary).
serial	Req.	String	Parking space serial No.

Parameter Name	Req. or Opt.	Data Type	Description
status	Req.	Number	Status: 0 (unknown), 1 (vacant), 2 (occupied), 3 (overtime parking), 4 (parking violations).
plateNumber	Req.	String	License plate number.
createTime	Req.	String	Time when the current status started.
duration	Req.	Number	Duration of the current status.
parkingImage Url	Req.	String	URL of the background picture.
platenumberImageUrl	Req.	String	URL of the license plate.

A.1.70 PassingRecordInfo

The table here shows the information about a vehicle passing record.

Table A-72 PassingRecordInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
guid	Req.	String	Vehicle passing record ID.
parkingLotInfo	Req.	Object	Parking lot information.
parkingLotIndexCode	Req.	String	Parking lot ID.
parkingLotName	Req.	String	Parking lot name.
passagewayInfo	Req.	Object	Entrance/exit information.
passagewayIndexCode	Req.	String	Entrance/exit ID.
passagewayName	Req.	String	Entrance/exit name.
laneInfo	Req.	Object	Lane information.
laneIndexCode	Req.	String	Lane ID.
laneName	Req.	String	Lane name.
direction	Req.	Number	Direction: 1 (entry), 2 (exit).

Parameter Name	Req. or Opt.	Data Type	Description
personInfo	Req.	Object	Vehicle owner information.
cardNum	Req.	Number	ID number.
ownerName	Req.	String	Owner name.
ownerPhoneNum	Req.	String	Phone number.
carInfo	Req.	Object	Vehicle information.
plateLicense	Req.	String	License plate number.
carType	Req.	Number	Vehicle type: 0 (Other), 1 (small-sized vehicle), 2 (large-sized vehicle), 3 (bus), 4 (truck), 5 (sedan), 6 (minivan), 7 (small-sized truck).
ImageUrl	Req.	String	URL of the vehicle picture.
EnterTime	Req.	String	Time when the vehicle entered the parking lot.
ExitTime	Req.	String	Time when the vehicle exited the parking lot.
allowType	Req.	Number	Allow mode: 1 (manual), 2 (auto), 3 (not allowed).
allowResult	Req.	Number	Whether the passing is allowed: 1 (allowed), 2 (not allowed).

A.1.71 PassVehicleRecord

The table here shows the information of a vehicle passing record.

Table A-73 PassVehicleRecord Object Description

Parameter Name	Req. or Opt.	Data Type	Description
crossRecordSyscode	Req.	String	Vehicle passing record ID, which consists of up to 64 characters.
cameraIndexCode	Req.	String	Camera ID, which consists of up to 64 characters.
plateNo	Opt.	String	License plate number of vehicle, which consists of up to 64 characters.

Parameter Name	Req. or Opt.	Data Type	Description
ownerName	Opt.	String	Vehicle owner name, which consists of up to 64 characters.
contact	Opt.	String	Contact number of vehicle owner, which consists of up to 32 characters.
vehicleColor	Opt.	Number	Vehicle color. See Vehicle Color for details.
vehicleType	Opt.	Number	Vehicle type. See Vehicle Type for details.
country	Opt.	Number	Country/region. See Country/Region for details.
vehiclePicUri	Opt.	String	Vehicle picture URL, which consists of up to 256 characters.
crossTime	Opt.	String	Vehicle passed time, which is in ISO 8601 standard time format: yyyy-MM-ddTHH:mm:ss+current zone, e.g., 2018-07-26T15:00:00+08:00. And the time consists of up to 64 characters.
createTime	Opt.	String	Record created time, which is in ISO 8601 standard time format: yyyy-MM-ddTHH:mm:ss+current zone, e.g., 2018-07-26T15:00:00+08:00. And the time consists of up to 64 characters.
vehicleDirectionType	Opt.	Number	Driving direction: 0 (other directions), 1 (downward, from far to near for the camera), 2 (upward, from near to far for the camera).
vehicleBrand	Opt.	Number	Vehicle brand. See Vehicle Brand for details.
vehicleSpeed	Opt.	Number	Vehicle speed.

A.1.72 PatrolInfo

The table here shows the patrol information.

Table A-74 PatrolInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
patrolName	Req.	String	Patrol name, which consists of up to 128 characters.
patrolIndex	Req.	Number	Patrol No., which is between 1 and 8. And the No. consists of up to 64 characters.
patrolPointInfoList	Opt.	Array	Preset information list of the patrol.
patrolPointInfoList[0]	Opt.	Object	Information of a preset in the list of the patrol. Refer to <u>PatrolPointInfo</u> for details.

A.1.73 PatrolPointInfo

The table here shows the information of a preset in the patrol.

Table A-75 PatrolPointInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
presetIndex	Req.	Number	Preset No., which is between 1 and 256. And the No. consists of up to 64 characters.
presetName	Opt.	String	Preset name, which consists of up to 32 characters. This field is not Req. when editing the preset, and it will not be returned when searching patrols, getting patrol information by patrol No.
speed	Req.	Number	Switching speed between each two presets, which is between 1 and 40.
dwellTime	Req.	Number	Dwell duration of a preset, which is between 15 and 30.

A.1.74 PeopleCountInfo

This table shows people counting statistics information of an item.

Table A-76 PeopleCountInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
time	Opt.	String	Statistics time. The maximum length is 64 bytes.
cameraIndexCode	Opt.	String	Camera ID. The maximum length is 64 bytes.
exitNum	Opt.	Number	Number of people exited.
enterNum	Opt.	Number	Number of people entered.

A.1.75 PeopleCountingParam

The table here shows people counting parameters.

Table A-77 PeopleCountingParam Object Description

Parameter Name	Req. or Opt.	Data Type	Description
relatedResourceInfoList	Opt.	<i>RelatedResourceInfo</i>	Related resources.

A.1.76 PersonInfo

The table here shows the information of a person.

Table A-78 PersonInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
personId	Opt.	String	Person ID, GUID allocated by system and for internal use. The maximum length is 64.
personCode	Opt.	String	Person code, a customized employee ID when you add the person, which cannot be modified once set. The maximum length is 16.

Parameter Name	Req. or Opt.	Data Type	Description
personName	Opt.	String	Person name, which consists of up to 512 characters.
personFamilyName	Opt.	String	Family name of the person, which consists of up to 256 characters.
personGivenName	Opt.	String	Given name of the person, which consists of up to 256 characters.
gender	Opt.	Number	0-unknown, 1-male, 2-female; and this field can contain up to 32 characters.
orgIndexCode	Opt.	String	Person's organization ID, which consists of up to 64 characters.
fingerPrint	Opt.	Object	Fingerprint information. See details in <u>FingerPrint</u> .
phoneNo	Opt.	String	Contact number, which consists of up to 64 characters.
personPhoto	Opt.	Object	Person picture information. See details in <u>PersonPhoto</u> .
email	Opt.	String	Email address of the person, which consists of up to 64 characters.
remark	Opt.	String	Remarks, which consists of up to 256 characters.
cards	Opt.	Object	Card information. See details in <u>Card</u> .
beginTime	Req.	String	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". The maximum length is 64 bytes.
endTime	Req.	String	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". The maximum length is 64 bytes.

Parameter Name	Req. or Opt.	Data Type	Description
customFieldList	Opt.	Array	List of custom information.
customFieldList[0]	Opt.	Object	Custom information. See details in <u>CustomField</u> .

A.1.77 PersonInOutEvents

The table here shows the information of an access point event.

Table A-79 PersonInOutEvents Object Description

Parameter Name	Req. or Opt.	Data Type	Description
eventId	Req.	String	Event ID, which consists of up to 32 characters including digits and lower-case letters.
eventType	Req.	Number	Decimal event type code, refer to <u>Event Types or Alarm Categories</u> for details.
eventTime	Req.	String	Event occurred time, which is in ISO 8601 standard time format: yyyy-MM-ddTHH:mm:ss+current zone, e.g., 2018-07-26T15:00:00+08:00. And the time consists of up to 32 characters.
deviceTime	Opt.	String	Event occurred time (device time), which is in ISO 8601 time format. The maximum length is 32 bytes.
personId	Opt.	String	Person ID, which consists of up to 64 characters including digits, lower-case letters, and dashes.
personName	Opt.	String	Person name, which consists of 1 to 512 characters, but cannot contain special characters like ' / \ : * ? " < >
personFamilyName	Opt.	String	Family name of the person, which consists of 256 characters.
personGivenName	Opt.	String	Given name of the person, which consists of 256 characters.

Parameter Name	Req. or Opt.	Data Type	Description
doorName	Opt.	String	Access point name, which consists of 1 to 32 characters, but cannot contain special characters like ' / \ : * ? " < >
doorIndexCode	Opt.	String	Access control ID, which consists of up to 64 characters including digits, lower-case letters, and dashes.
cardNo	Opt.	String	Card number, which consists of up to 32 characters.
checkInAndOutType	Opt.	Number	Attendance type, 0: unknown, 1: check-in, 2: check-out, 3: break-out, 4: break-in, 5: overtime-in, 6: overtime-out.
picUri	Opt.	String	Captured picture URI (a relative path). The maximum length is 512 bytes. You can call <u>POST /artemis/api/acs/v1/event/pictures</u> to get the picture data from the URI.
temperatureData	Opt.	String	Temperature value. The maximum length is 64 bytes.
temperatureStatus	Opt.	Number	Temperature status: 0-unknown, 1-normal, 2-abnormal.
wearMaskStatus	Opt.	Number	Wearing mask or not: 0-unknown, 1-yes, 2-no.
readerIndexCode	Opt.	String	Card reader ID, which consists of up to 64 characters.
readerName	Opt.	String	Card reader name, which consists of up to 64 characters.

A.1.78 PersonPhoto

The table here shows the information of a person picture.

Table A-80 PersonPhoto Object Description

Parameter Name	Req. or Opt.	Data Type	Description
picUri	Opt.	String	Person picture URL, which consists of up to 256 characters.

A.1.79 picInfo

The table here shows the picture information.

Table A-81 picInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
picUrlList	Opt.	Array	Picture list. Up to 1 piece of data can be transmitted at a time.
type	Req.	String	Picture uploading format. Currently only uploading via "data" is supported.
data	Req.	String	A binary data string of picture encoded by Base64. This node is valid when type is "data".
playTime	Req.	Number	Display duration of the picture.

A.1.80 planDetailResult

The table here shows the information of release schedule details search result.

Table A-82 planDetailResult Object Description

Parameter Name	Req. or Opt.	Data Type	Description
total	Req.	Number	Total records of search.
pageNo	Req.	Number	The current page No.
pageSize	Req.	Number	Number of records on each page.
releaseTime	Opt.	String	Release time on terminal.
effectiveTime	Opt.	String	Effective time on terminal.
releaseState	Req.	String	Task release status: "notRelease" "releasing", "failed", "success".

Parameter Name	Req. or Opt.	Data Type	Description
MatchList	Req.	Array	List of terminal information.
MatchList [0]	Req.	Object	Terminal information.
terminalNo	Req.	String	terminal ID.
terminalName	Req.	String	Terminal name.
percent	Req.	Number	Release progress.
errorCode	Opt.	String	Release failure error code. This field is valid only when releaseState is "failed".
errorMsg	Opt.	String	Release failure error message. This field is valid only when releaseState is "failed".
releaseState	Req.	String	Release status: "notRelease", "releasing", "failed", "success".
releaseTotalNum	Req.	Number	Total number of releases.
releaseSuccessNum	Req.	Number	Total number of successful releases.
releaseFailedNum	Req.	Number	Total number of failed releases.
releaseCancelNum	Req.	Number	Total number of canceled releases.
releasingNum	Req.	Number	Total number of releases in progress.
notReleaseNum	Req.	Number	Total number of not released items.

A.1.81 planDetailSearch

The table here shows the information of release schedule details search condition.

Table A-83 planDetailSearch Object Description

Parameter Name	Req. or Opt.	Data Type	Description
pageNo	Req.	Number	The current page No.
pageSize	Req.	Number	Number of records on each page, (0,500].
releaseState	Req.	String	List of releasing statuses.

A.1.82 PlaybackUrlVideoInfo

The table shows the information of playback URL and video segment.

Table A-84 PlaybackUrlVideoInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
list	Req.	Array	Information list of video segments.
list[0]	Req.	Object	Information of a video segment in the list. See details in VideoInfo .
uuid	Opt.	String	ID for searching by page. This UUID is returned after the previous search and it is used for the next search of remaining videos. By default, it is "null". And it consists of up to 64 characters.
url	Req.	String	Streaming URL, which consists of up to 128 characters, valid permanently.
authentication	Opt.	String	The authentication information for getting stream, which contains user name, password, and token information. And this field can contain up to 1024 characters.
recordLocation	Opt.	String	Video storage location: "0"-central storage (default), "1"-device storage, "2"-central cluster storage. This field can contain up to 32 characters.

A.1.83 PresetInfo

This table shows the information of a preset.

Table A-85 PresetInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
presetName	Req.	String	Preset name, which consists of up to 128 characters.
presetIndex	Req.	Number	Preset No., which consists of up to 128 characters.

A.1.84 PresetValue

The table here shows the information about a preset value.

Table A-86 PresetValue Object Description

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt.	String	Preset value ID, which consists of up to 64 characters.
value	Opt.	String	Preset value, which consists of up to 32 characters.

A.1.85 PrivilegeGroupInfo

The table here shows access group information.

Table A-87 PrivilegeGroupInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
privilegeGroupId	Req.	String	Access level ID, which consists of up to 64 characters.
privilegeGroupName	Req.	String	Access level name, which consists of up to 32 characters.
description	Req.	String	Description, which consists of up to 128 characters.
isDefault	/	Number	Whether it is the default access level: 0 (not default), 1 (default access level). It is valid when the type (access level type) is 2 (visitor).

Parameter Name	Req. or Opt.	Data Type	Description
			As an input, it is valid when editing the access level; as an output, it is valid when getting the access level information.
timeSchedule	Req.	Object	Time schedule template. See details in <u>TimeSchedule</u> .
ElementList	/	Object	Resource list. It is required when the type (access level type) is 1 (access control). See details in <u>ElementList</u> .

A.1.86 quickContent

The table here shows the information of quick release content.

Table A-88 quickContent Object Description

Parameter Name	Req. or Opt.	Data Type	Description
Program	Req.	Object	Program.
Resolution	Req.	Object	Program resolution.
resolutionName	Req.	String	Resolution name.
imageWidth	Opt.	Number	Resolution width.
imageHeight	Opt.	Number	Resolution height.
PageList	Req.	Array	Page list.
staticMaterialType	Req.	String	Material type: "picture", "video".
materialNo	Req.	String	Material ID.
PlayDuration	Opt.	String	Play information. This field is valid only when staticMaterialType is "picture".
durationType	Req.	String	Play type: "selfDefine"-custom. This field is valid only when staticMaterialType is "picture".
duration	Req.	String	Duration, unit: second. This field is valid only when durationType is "selfDefine".

Parameter Name	Req. or Opt.	Data Type	Description
scaleType	Opt.	String	Material scaling parameter configuration: "fitXY"(stretch to fit), "fitCenter" (self-adaptive). This field is valid only for picture window.
PublishPlan	Req.	String	Release schedule information.
playMode	Req.	String	Play mode: "loop"-loop play all day, "byWeek"-loop play by week, "byDuration"-loop play by duration, "byEndTime"-loop play by end time. "loop" and "byWeek" are only supported by digital signage terminals.
WeeklyPlan	Opt.	String	Weekly schedule.
dayOfWeek	Req.	String	Day of the week: "monday", "tuesday", "wednesday", "thursday", "friday", "saturday", "sunday".
TimeSpan	Req.	String	Time period.
beginTime	Req.	String	Start time.
endTime	Req.	String	End time.
playDuration	Opt.	String	Play duration. This field is valid only when playMode is "byDuration".
endTime	Opt.	String	Play end time, in the format of yyyyymmddThhmmss+.
publishMode	Opt.	String	The release mode required for loop play all day and loop play by week: "timedPublish" (timed release), "immediatelyPublish"(immediate release).
timedPublishTime	Opt.	String	The timed release time, in ISO8601 format, e.g., 20230927T235959+00. This field is valid only when publishMode is "timedPublish".
syncPlay	Opt.	String	Whether to support the sync play function.
PublishDeviceList	Req.	String	Device list.

Parameter Name	Req. or Opt.	Data Type	Description
PublishDeviceList[0]	Req.	String	Device ID.
name	Req.	String	Quick release task name.

A.1.87 quickPublishPlanID

The table here shows the information of quick release.

Table A-89 quickPublishPlanID Object Description

Parameter Name	Req. or Opt.	Data Type	Description
publishPlanId	Req.	Number	Release schedule ID.

A.1.88 ReaderInfo

The table here shows card reader information.

Table A-90 ReaderInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
indexCode	Req.	String	Card reader ID, which consists of up to 64 characters.
name	Req.	String	Card reader name, which consists of up to 64 characters.
enable	Opt.	Number	Whether to enable the card reader: 0-disable, 1-enable. If this parameter does not exist, it indicates that configuring this item is not supported.

A.1.89 RealPeopleCountInfo

The table here shows the real-time statistics of a group.

Table A-91 RealPeopleCountInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
time	Opt.	String	Time, which consists of up to 64 characters.
resourceGroupIndexCode	Opt.	String	Resource group ID, which consists of up to 64 characters.
resourceGroupName	Opt.	String	Resource group name, which consists of up to 64 characters.
exitNum	Opt.	Number	Number of people who exited the area.
enterNum	Opt.	Number	Number of people who entered the area.
limitNum	Opt.	Number	Number threshold.

A.1.90 RecordOverview

The table here shows the record overview.

Table A-92 RecordOverview Object Description

Parameter Name	Req. or Opt.	Data Type	Description
eventIndexCode	Req.	String	Event record ID. The maximum length is 64 characters.
eventType	Req.	Number	Event type. The maximum length is 16 characters.
mobilevehicleIndexCode	Req.	String	On-board vehicle ID. The maximum length is 64 characters.
plateNo	Req.	String	License plate No. The maximum length is 20 characters.
ownerName	Req.	String	Vehicle owner name. The maximum length is 64 characters.
regionName	Req.	String	Area name. The maximum length is 64 characters.
occurTime	Req.	String	GPS report time, in ISO 8601 format, which is represented by "yyyy-MM-

Parameter Name	Req. or Opt.	Data Type	Description
			ddTHH:mm:ss+current time zone", e.g., "2018-07- 26T15:00:00 + 08:00". The maximum length is 64 characters.
longitude	Req.	String	Longitude (integer; including negative values), actual degrees × 3600 × 100 + acutal minutes × 60 × 100 + actual seconds × 100. The maximum length is 16 characters.
latitude	Req.	String	Latitude (integer; including negative values), actual degrees × 3600 × 100 + acutal minutes × 60 × 100 + actual seconds × 100. The maximum length is 16 characters.
direction	Req.	Number	Vehicle direction (calculated clockwise from due north (0); the actual degree * 100; [0, 36000)).
speed	Req.	Float	Speed (consistent with the platform: km/h by default). The maximum length is 16 characters.
displayInfo	Req.	String	Displayed GPS information, e.g., E120, 50, 20; N30, 50, 20. The maximum length is 64 characters.
directionInfo	Req.	String	Direction information ("North", "Northeast", "East", "Southeast", "South", "Southwest", "West", "Northwest"). The maximum length is 16 characters.

A.1.91 RelatedResourceInfo

The table here shows related resources.

Table A-93 RelatedResourceInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
resourceType	Opt.	Number	Resource type: 1 (camera), 2 (door).
resourceIndexCode	Opt.	String	Resource ID, the maximum length is 64 characters.
resourceName	Opt.	Number	Resource name.
entryExitConfig	Opt.	Number	Enter/exit direction: 1 (people crossing along the entry direction (for camera/door) will be calculated as people entered this region), 2 (people crossing along the entry direction (for camera/door) will be calculated as people exited this region).

A.1.92 RecordServerInfo

The table shows the information of a Storage Server.

Table A-94 RecordServerInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
recordServerIndexCode	Opt.	String	Storage Server ID, which consists of up to 64 characters.
recordServerName	Opt.	String	Storage Server name, which consists of up to 64 characters.
recordServerIp	Opt.	String	IP address of Storage Server, whose maximum length is 64 bytes.
recordingStatus	Opt.	Number	Video status: 0-unknown, 1-normal, 2-exception.
networkStatus	Opt.	Number	Network status: 0-unknown, 1-online, 2-offline.
hddList	Opt.	Array	HDD information list. This parameter is valid only when getting the information of a single Storage Server.
hddList[0]	Opt.	Object	Information of a HDD, refer to HDDInfo for details.

A.1.93 RegionInfo

The table here shows the information of an area.

Table A-95 RegionInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
indexCode	Opt.	String	Area ID, which consists of up to 64 characters.
name	Opt.	String	Area name, which consists of up to 32 characters.
parentIndexCode	Opt.	String	Parent area ID, which consists of up to 64 characters.
siteIndexCode	Opt.	String	Site ID, which consists of up to 64 characters.

A.1.94 RelatedErrorInfo

The table here shows the details of an error.

Table A-96 RelatedErrorInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
personName	Opt.	String	Person name. The maximum length is 64 bytes. This field is only returned when no device-level error exists.
resourceName	Opt.	String	Resource name. The maximum length is 32 bytes. For multiple names, each two names should be separated by comma.
errorItems	Opt.	String	Error type: 0-device exception; 1-incorrect card information; 2-incorrect fingerprint information; 3-incorrect face information; 4-incorrect person information. For multiple types, each two types should be separated by comma.

A.1.95 ResourceGroupInfo

The table here shows information about a resource group.

Table A-97 ResourceGroupInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
resourceGroupIndexCode	Opt.	String	Resource group ID, which consists of up to 64 characters.
resourceGroupName	Opt.	String	Name of the resource group, which consists of up to 64 characters.
siteIndexCode	Opt.	String	Site ID.
peopleCountingParam	Opt.	<i>PeopleCountingParam</i>	People counting parameters.

A.1.96 SiteInfo

The table here shows the information of a site.

Table A-98 SiteInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
siteIndexCode	Opt.	String	Site ID, which consists of up to 64 characters.
siteName	Opt.	String	Site name, which consists of up to 32 characters.
siteIp	Req.	String	Site IP address.
sitePort	Req.	String	Site port No.
description	Opt.	String	Site description information, which consists of up to 64 characters.

A.1.97 SpaceTypeOverViewInfo

The table here shows the information about a parking space type.

Table A-99 SpaceTypeOverViewInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
typeIndexCode	Req.	String	Parking space type ID.
typeName	Req.	String	Name of the parking space type.
typeColor	Req.	String	Color of the parking space type.
totalSpaceNum	Req.	Number	Total number of parking spaces of the type.
freeSpaceNum	Req.	Number	Vacant number of parking spaces of the type.

A.1.98 StatisticResult

The table here shows the statistics result.

Table A-100 StatisticResult Object Description

Parameter Name	Req. or Opt.	Data Type	Description
unApplicationCount	Opt.	Number	Number of not applied attempts.
applicationFailCount	Opt.	Number	Number of failures to apply data.
editAndUnApplicationCount	Opt.	Number	Number of edited and not applied attempts.

A.1.99 StreamServerInfo

The table shows the information of a Stream Media Server.

Table A-101 StreamServerInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
streamServerIndexCode	Opt.	String	Stream Media Server ID, which consists of up to 64 characters.
streamServerName	Opt.	String	Stream Media Server name, which consists of up to 64 characters.

Parameter Name	Req. or Opt.	Data Type	Description
streamServerIp	Opt.	String	IP address of Stream Media Server, whose maximum length is 64 bytes.
totalStreamNum	Opt.	Number	Total number of stream channels.
streamInNum	Opt.	Number	Number of stream input channels.
streamOutNum	Opt.	Number	Number of stream output channels.
status	Opt.	Number	Network status: 0-exception, 1-normal.
CPUUsage	Opt.	Number	CPU usage of Stream Media Server, which is represented by percentage.
RAMUsage	Opt.	Number	RAM usage of Stream Media Server, which is represented by percentage.

A.1.100 SubscriptionInfo

The table here shows the details of a subscribed event.

Table A-102 SubscriptionInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
eventTypes	Req.	Array[Number]	Event type code, which is a decimal integer, refer to <u>Event Types or Alarm Categories</u> for details.
eventDest	Req.	String	<p>Address to receive event information, which consists of up to 1024 characters. The address adopts RESTful callback mode, and supports HTTP and HTTPS, its format is "http://ip:port/eventRcv" or "https://ip:port/eventRcv".</p> <p> Note</p> <p>Refer to <u>Event Message Format</u> for the event details received in the address.</p>
passBack	Req.	Number	Whether to enable event callback: 0-no (by default), 1-yes.

A.1.101 tableInfo

The table here shows the table information.

Table A-103 tableInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
tableList	Req.	Array	Table list. Up to 5 pieces of data can be transmitted at a time.
id	Opt.	String	Table row ID, used for editing data.
dataList	Req.	Array	Data of each column in a row, which is entered one by one from left to right.
value	Req.	String	Data content.
row	Opt.	Number	Row No., which is required for versions earlier than 4.2.0.

A.1.102 terminalSearchDescription

The table here shows the information of terminal search condition.

Table A-104 terminalSearchDescription Object Description

Parameter Name	Req. or Opt.	Data Type	Description
areaID	Opt.	Number	Area ID.
includeSubArea	Opt.	Boolean	Whether to include sub areas (not included by default and when this node does not exist).
onlineState	Opt.	String	Online status: "screenOn", "screenClose", "online" ("screenOn", "screenClose"), "offline", "all".
keyword	Opt.	String	The keyword for search: terminal name and IP address. If this node is configured for search, terminalNameLike will not be available.
sortBy	Opt.	String	Sorting field: "terminalName".

Parameter Name	Req. or Opt.	Data Type	Description
orderMode	Opt.	String	Sorting type: "ascend", "descend".
pageSize	Req.	Number	Number of records on each page, (0, 100].
pageNo	Req.	Number	The current page No., [0, 2147483648).

A.1.103 terminalSearchResult

The table here shows the information of terminal list.

Table A-105 terminalSearchResult Object Description

Parameter Name	Req. or Opt.	Data Type	Description
id	Opt.	Number	Terminal ID.
terminalName	Opt.	String	Terminal name.
areaID	Opt.	Number	ID of area where the terminal belongs.
areaName	Opt.	String	Name of area where the terminal belongs.
onlineState	Opt.	String	Online status: "screenOn", "screenClose", "offline".
ipAddress	Opt.	Object	IP address information.
ipVersion	Opt.	String	Access mode: "v4", "v6", "dual".
ipAddress	Opt.	String	IPv4 address of the terminal.
ipv6Address	Opt.	String	IPv6 address of the terminal.
serialNo	Opt.	String	Terminal serial No.
softwareVersion	Opt.	String	Software version.
resolution	Opt.	Object	Resolution information.
width	Opt.	Number	Resolution width.
height	Opt.	Number	Resolution height.
resolutionType	Opt.	String	Resolution type: "1920*1080", "3840*2160", "1080*1920", "2160*3840", etc.

Parameter Name	Req. or Opt.	Data Type	Description
screenSizeType	Opt.	String	Screen type: "vertical", "horizon", "selDefine".
totalOnlineNum	Opt.	Number	Total number of online terminals.
totalTerminalNum	Opt.	Number	Total number of terminals.

A.1.104 TimeSchedule

The table here shows the information of time schedule template.

Table A-106 TimeSchedule Object Description

Parameter Name	Req. or Opt.	Data Type	Description
indexCode	Req.	String	Access schedule template ID: 1 (all-day template), 2 (workday template), 3 (holiday template).
name	Req.	String	Name of the time schedule template, which consists of up to 32 characters. By default, only template ID will be returned, without the name.

A.1.105 TimeZoneInfo

The table shows the time zone information.

Table A-107 TimeZoneInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
bias	Req.	Number	Time difference (unit: minute) between the current time zone and zero zone.
enableDST	Req.	Number	Whether to enable DST.
daylightBias	Opt.	Number	DST duration (unit: minute).
daylightDate	Opt.	String	Start time of DST, which is represented by "MM:ww:dd:HH:mm".

Parameter Name	Req. or Opt.	Data Type	Description
			MM (month), ww (xx week of the month): 1, 2, 3, 4, 5 (the last week of the month); dd (xx day of the week): 0 (Sunday), 1, 2, 3, 4, 5; HH (hour), mm (minute). The maximum length of this field is 9.
standardDate	Opt.	String	End time of DST, which is represented by "MM:ww:dd:HH:mm". MM (month), ww (xx week of the month): 1, 2, 3, 4, 5 (the last week of the month); dd (xx day of the week): 0 (Sunday), 1, 2, 3, 4, 5; HH (hour), mm (minute). The maximum length of this field is 9.

A.1.106 UrlInfo

The table shows the information of streaming URL.

Table A-108 UrlInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
url	Req.	String	Streaming URL, which is permanently valid and consists of up to 128 characters.
authentication	Opt.	String	The authentication information for getting stream, which contains user name, password, and token information. And this field can contain up to 1024 characters.

A.1.107 VehicleGroupInfo

The table here shows the vehicle group information.

Table A-109 VehicleGroupInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
vehicleGroupInde xCode	Opt.	String	Vehicle group ID, which consists of up to 64 characters.
vehicleGroupNam e	Opt.	String	Vehicle group name, which consists of up to 32 characters.
description	Opt.	String	Description, which consists of up to 128 characters.

A.1.108 VehicleInfo

The table here shows the information of a vehicle.

Table A-110 VehicleInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
vehicleId	Opt.	String	Vehicle ID, which consists of up to 64 characters.
plateNo	Opt.	String	License plate number of the vehicle, which consists of up to 32 characters.
personName	Opt.	String	Vehicle owner name, which consists of up to 512 characters.
personFamilyNa me	Opt.	String	Family name of the vehicle owner, which consists of 256 characters.
personGivenNam e	Opt.	String	Given name of the vehicle owner, which consists of 256 characters.
phoneNo	Opt.	String	Contact number of vehicle owner, which consists of up to 32 characters.
plateCategory	Opt.	String	License plate type, which consists of 1 to 32 characters, but cannot contain special characters like ' / \ : * ? " < >
plateArea	Opt.	Number	Area of the license plate: 0-not supported, 60-BHR, 62-LEB, 66-UAE, 68-OMN, 72-QAT, 77-KSA, 84-KUW, 85-SYR, 90-IRQ, 93-YMN, 94-JOR, 104-EGY, 256-AUH, 257-FUJ, 258-DXB, 259-

Parameter Name	Req. or Opt.	Data Type	Description
			RAK, 260-AJM, 261-SHJ, 262-UAQ, 263-FED.
plateAreaName	Opt.	String	License plate name.
vehicleColor	Opt.	Number	Vehicle colors, i.e., 0-other color, 1-white, 2-sliver, 3-grey, 4-black, 5-red, 6-dark blue, 7-blue, 8-yellow, 9-green, 10-brown, 11-pink, 12-purple, 13-dark blue, 14-cyan.
vehicleGroupIndexcode	Opt.	String	Vehicle group ID, which consists of up to 64 characters.
effectiveDate	Req.	String	Start time of validity, 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".
expiredDate	Req.	String	End time of validity, 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.1.109 Version

The table here shows the product version information.

Table A-111 Version Object Description

Parameter Name	Req. or Opt.	Data Type	Description
produceName	Req.	String	Product name, which consists of up to 64 characters.
softVersion	Req.	String	Software version No. of the product, which consists of up to 64 characters.

A.1.110 VideoInfo

This table shows the information of a video segment for playback.

Table A-112 VideoInfo Object Description

Parameter	Req. or Opt.	Data Type	Description
beginTime	Req.	String	Start time of video segment, which is in ISO 8601 standard time format: yyyy-MM-dd'T'HH:mm:ss.SSSzzz, e.g., 2018-07-26T15:00:00 + 08:00. And the time consists of up to 64 characters.
endTime	Req.	String	End time of video segment, which is in ISO 8601 standard time format: yyyy-MM-dd'T'HH:mm:ss.SSSzzz, e.g., 2018-07-26T15:00:00 + 08:00. And the time consists of up to 64 characters.
size	Opt.	Number	Video segment size, unit: byte. This field is invalid when mergeSegment is 1. The maximum length of this field is 64.
url	Opt.	String	Streaming URL, which consists of up to 128 characters.
authentication	Opt.	String	Authentication information, which can contain up to 1024 characters.

A.1.111 Visitor

The table here shows the visitor information.

Table A-113 Visitor Object Description

Parameter Name	Req. or Opt.	Data Type	Description
ID	Opt.	Number	Visitor ID, the maximum length is 32 characters.
BaseInfo	Opt.	<i>BaseInfo</i>	Visitor's basic information, the maximum length is 32 characters.

A.1.112 VisitorappointInfo

The table here shows the information of a reservation record.

Table A-114 VisitorappointInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
receptionistId	Opt.	String	ID of the person to be visited, which consists of up to 64 characters.
appointStartTime	Req.	String	Expected time of arrival 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". The maximum length is 64 characters.
appointEndTime	Req.	String	Expected time of leaving 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". The maximum length is 64 characters. If the visitor has checked out, all permissions assigned to the visitor will be unassigned.
visitReasonType	Req.	Number	Visiting purpose type: 0-business, 1-training, 2-visit, 3-meeting, 4-others.
visitReasonDetail	Opt.	String	Visiting purpose, this parameters is required when the value of visitReasonType is 4. The maximum length is 128 characters.
receptionistName	Opt.	String	Name of the person to be visited. The maximum length is 128 characters.
receptionistFullPath	Opt.	String	Organization path of the person to be visited. The maximum length is 128 characters.
appointStatus	Opt.	String	Reservation status: 0-reservation record has been added; 1-reservation record has been invalid; 2-visitor has

Parameter Name	Req. or Opt.	Data Type	Description
			arrived. The maximum length is 64 characters.
appointID	Opt.	String	Reservation record ID. The maximum length is 64 characters.
approvalFlowCode	Opt.	String	Flow No. The maximum length is 64 characters.
appointCode	Opt.	String	Reservation code. The maximum length is 64 characters.
visitorInfo	Opt.	Object	List of visitor information, which consists of up to 128 characters. Currently, it only supports one visitor at a time. See details in <u>VisitorInfo</u> .
accessInfo	Opt.	Object	Access information. See details in <u>accessInfo</u> .

A.1.113 VisitorInfo

The table here shows visitor information.

Table A-115 VisitorInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
visitorId	Opt.	String	Visitor ID, which consists of up to 64 characters.
visitorFamilyName	Req.	String	Visitor's family name, which consists of up to 256 characters, but cannot contain special characters like '/ \ : * ? " < >
visitorGivenName	Req.	String	Visitor's given name, which consists of up to 256 characters, but cannot contain special characters like '/ \ : * ? " < >
visitorGroupName	Opt.	String	Visitor group name. Special characters cannot be contained.
gender	Req.	Number	0-unknown, 1-male, 2-female.

Parameter Name	Req. or Opt.	Data Type	Description
email	Opt.	String	Email address.
phoneNo	Opt.	String	Phone number, which consists of up to 20 characters.
plateNo	Opt.	String	License plate number, which consists of up to 16 characters, but cannot contain special characters like '/ \ : * ? " < >
companyName	Opt.	String	Name of the company that the visitor is from, which cannot contain special characters like '/ \ : * ? " < >
certificateType	Opt.	Number	Certificate type: 111-ID card, 414-passport, 335-driver's license, 222-exit-entry permit for traveling to and from Hong Kong, Macao, and Taiwan.
certificateNo	Opt.	String	Certificate number, which consists of up to 20 characters. Certificate type is required when certificate number exists.
remark	Opt.	String	Remark, which consists of up to 128 characters.
faces	Opt.	Array	List of face information.
faces[0]	Opt.	Object	Specific face information (Base64 picture data for adding face information and picture URL for getting face information).
fingerPrint	Opt.	Array	List of finger print information.
fingerPrint[0]	Opt.	FingerPrint	Specific finger print information.
cards	Opt.	Array	List of card No.
cards[0]	Opt.	Card	Specific card No.
identiPhoto	Opt.	Array	List of visitor's ID photo.
identiPhoto[0]	Opt.	String	Specific visitor's ID photo (Base64 picture data for adding photo and picture URL for getting photo).
VisitorPhoto	Opt.	Array	List of visitor's profile photo.

Parameter Name	Req. or Opt.	Data Type	Description
VisitorPhoto[0]	Opt.	<u>VisitorPhoto</u>	Specific visitor's profile photo.
customField	Opt.	Object	List of visitor custom information. See details in <u>CustomField</u> .
accessInfo	Opt.	Object	Access information. See details in <u>accessInfo</u> .

A.1.114 VisitorPhoto

The table here shows visitor's photo information.

Table A-116 VisitorPhoto Object Description

Parameter Name	Req. or Opt.	Data Type	Description
haveVisitorPhoto	Opt.	String	Whether visitor's profile photo exists.
haveIdentiPhoto	Opt.	String	Whether visitor's ID photo exists.

A.1.115 VisitorRegisterRecordInfo

The table here shows information about visitor check-in records.

Table A-117 VisitorRegisterRecordInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
recordId	Req.	String	Maximum: 64 characters.
registerTime	Req.	String	Check-in time in ISO format. Maximum: 64 characters.
visitorStatus	Req.	String	Visitor status. 0 (checked in); 1 (checked out); 2 (auto checked out after the visit time); 3 (checked out via self service); 4 (not checked out after the visit time).

Parameter Name	Req. or Opt.	Data Type	Description
qRCodeImage	Req.	String	QR code for opening the door. Base64 encoding.
haveCheckInGoodsPic	Opt.	Number	Whether to take a photo of the visitor's belongings when the visitor checks in. 0 (no); 1 (yes).
haveCheckOutGoodsPic	Opt.	Number	Whether to take a photo of the visitor's belongings when the visitor checks out. 0 (no); 1 (yes).
visitorBaseInfo	Req.	Object	Visitor basic information.
visitorId	Req.	String	Visitor ID.
visitStartTime	Req.	String	Visit start time in ISO format.
visitEndTime	Req.	String	Visit end time in ISO format.
companyName	Opt.	String	Company name.
remark	Opt.	String	Remarks.
email	Opt.	String	Email address.
fullName	Opt.	String	Visitor's full name.
visitorGroup	Opt.	String	Visitor group name.
visitorGroupId	Req.	String	Visitor group ID.
gender	Opt.	String	0 (female); 1 (male); 2 (unknown).
certificateType	Opt.	String	Certificate type. 0 (ID card); 1 (passport); 2 (driver license); 3 (exit-entry permit for traveling to and from

Parameter Name	Req. or Opt.	Data Type	Description
			Hong Kong, Macao, and Taiwan).
certificateNo	Opt.	String	Certificate number.
phoneNum	Opt.	String	Phone number.
physicsCardStatus	Opt.	String	Card status. 0 (shown); 1 (hidden).
smallPhotoUrl	Opt.	String	URL of visitor photo thumbnail.
visitorCardInfo	Opt.	Object	Card information.
visitorFingerprintInfo	Opt.	Object	Fingerprint information.
visitorReason	Opt.	Object	Visit reason.
cardId	Opt.	String	Card ID.
cardNumber	Req.	String	Card number.
fingerprintId	Opt.	String	Fingerprint ID.
fingerprintName	Opt.	String	Fingerprint name.
reasonId	Req.	String	Visit reason ID.
reasonName	Opt.	String	Visit reason.

A.1.116 watchListInfo

Table A-118 watchListInfo Object Description

Parameter Name	Req. or Opt.	Data Type	Description
ID	Opt.	String	Visitor ID. The maximum length is 64.
enableRegister	Opt.	Number	Whether it is approved. The maximum length is 64.
rejectNum	Opt.	Number	Number of rejections. The maximum length is 64.
visitorType	Opt.	Number	The maximum length is 64.

Parameter Name	Req. or Opt.	Data Type	Description
type	Opt.	String	Monitored entity type. The maximum length is 64.
remark	Opt.	String	Remarks. The maximum length is 128.
visitorTypeName	Opt.	String	Monitored visitor name. The maximum length is 128.
identiFicationType	Opt.	Number	Certificate type. The maximum length is 64.
identiFiyCode	Opt.	String	Certificate No. The maximum length is 128.
haveVisitorHeadPic	Opt.	Number	Whether with visitor profile picture.
haveVisitorIdentificPic	Opt.	Number	Whether with visitor certificate picture.

A.2 Event Message Format

The event message is in JSON format, and the encoding format is UTF-8.

Parameter Name	Required/ Optional	Data Type	Description
method	Required	String	Method name for indicating the message use. Here, it always be "OnEventNotify".
params	Required	<u>Table 6-119</u>	Event parameters.
isHistory	Optional	Number	Whether to copy back history event: 1(yes), 0 or not configured (real-time event).

Table A-119 Params

Parameter Name	Required/ Optional	Data Type	Description
sendTime	Required	String	Event sending time after processing by program, which is in ISO 8601 standard time

Parameter Name	Required/ Optional	Data Type	Description
			format: YYYY-mm-dd hh:MM:ss + zone, e.g., 2018-08-15T 15:53:47.000+08:00.
ability	Required	String	Event category, such as video event (event_vss), access control event (event_acs), on-board monitoring event (event_ms), and ANPR event (event_veh).
events	Required	Table 6-120	Event information.

Table A-120 Events

Parameter Name	Required/ Optional	Data Type	Description
eventId	Required	String	Event ID (UUID), if the same event occurred for multiple times, the IDs are same. Its maximum size is 64 bytes.
srcIndex	Required	String	Event source ID. For physical devices, it is the resource No. Its maximum size is 64 bytes.
srcType	Required	String	Event source type code, or resource type code.
srcName	Optional	String	Event source name, which is customized by application. The name is in UTF-8 encoding format.
eventType	Required	Number	Event types, refer to Event Types or Alarm Categories for details.
status	Required	Number	Event status: 0-occurred, 1-started, 2-ended, 3-event pulse, 4-event linkage updated, 5-event picture uploaded.
eventLvl	Optional	Number	Event level: 0-unconfigured (default), 1-low, 2-medium, 3-high.
timeout	Required	Number	Heartbeat timeout. Currently, this field is reserved.
happenTime	Required	String	Event occurred time (local time), which is in ISO 8601 standard time format, e.g., 2018-08-15T 15:53:47.000+08:00.

Parameter Name	Required/ Optional	Data Type	Description
srcParentIndex	Optional	String	Parent device No. of event source. If there is no parent device, set it to "null". Its maximum size is 64 bytes.
data	Optional	JSON	Event extension information. Its maximum size is 512 bytes. Refer to <u>Access Control Event Message</u> , <u>ANPR Event Message</u> , <u>Face Picture Comparison Event Message</u> , <u>, License Plate Matched or Mismatched Event Message</u> , etc. for details.

Example

Event Message Example

```
{
  "method": "OnEventNotify",
  "params":{
    "sendTime": "2017-07-01T15:34:01.000+08:00",
    "ability": "event_vss",
    "events": [
      {
        "eventId": "c929d9f873eb48439bd2c59df358bbeb",
        "srcIndex": "21000000001130001013",
        "srcType": "camera",
        "srcName": "optional_src_name",
        "eventType": 130001,
        "status": 1,
        "timeout": 30,
        "happenTime": "2017-07-01T15:34:01.000+08:00",
        "srcParentIndex": "optional-parent",
        "data": {"extra event data info": ""}
      }
    ]
  }
  "isHistory": 0
}
```

A.2.1 Access Control Event Message

The table here shows the parameter fields of access control event message.

Parameter Name	Req. or Opt.	Data Type	Description
personId	Req.	String	Person ID, GUID allocated by system and for internal use.
personCode	Opt.	String	Person code, a customized employee ID when you add the person, which cannot be modified once set.
cardNo	Req.	String	Card No.
checkInAndOutType	Req.	Number	Attendance type. 0: unknown, 1: check-in, 2: check-out, 3: break-out, 4: break-in, 5: overtime-in, 6: overtime-out.
picUri	Opt.	String	Picture URL.
temperatureData	Opt.	Float	Temperature value.
temperatureStatus	Opt.	Number	Temperature status: 0-unknown, 1-normal, 2-abnormal.
wearMaskStatus	Opt.	Number	Wearing mask or not: 0-unknown, 1-yes, 2-no.
readerIndexCode	Opt.	String	Card reader ID.
readerName	Opt.	String	Card reader name.

Example

Message Example of Access Control Event

```
{
  "personId": "",
  "cardNo": "",
  "checkInAndOutType": ,
  "picUri": "",
  "temperatureData": ,
  "temperatureStatus": ,
  "wearMaskStatus": ,
  "readerIndexCode": ,
  "readerName": 
}
```

A.2.2 ANPR Event Message

The table here shows the fields of ANPR event message.

Table A-121 Message Field Description

Parameter Name	Req. or Opt.	Data Type	Description
plateNo	Req.	String	License plate number.
vehicleGroupIndexCode	Opt.	String	Vehicle group ID.
vehiclePicUri	Opt.	String	Vehicle picture URL.
vehicleBrand	Opt.	Number	Vehicle brand. See Vehicle Brand for details.
vehicleType	Opt.	Number	Vehicle type. See Vehicle Type for details.
vehicleColor	Opt.	Number	Vehicle color. See Vehicle Color for details.
country	Opt.	Number	Country/region. See Country/Region for details.
vehicleDirectionType	Opt.	Number	Driving direction: 0 (other directions), 1 (downward, from far to near for the camera), 2 (upward, from near to far for the camera).
ownerName	Opt.	String	Vehicle owner name.
contact	Opt.	String	Vehicle owner contact information.
vehicleSpeed	Opt.	Number	Vehicle speed.

Example

Message Example of ANPR Event

```
{
  "plateNo": ""
}
```

A.2.3 License Plate Matched or Mismatched Event Message

The table here shows the fields of license plate matched or mismatched event message.

Table A-122 Message Field Description

Parameter Name	Req. or Opt.	Data Type	Description
subSrcType	Opt.	String	Event source type. The vehicle list (LPRVehicleList) is returned during the ANPR list matched or mismatched event search.
subSrcIndex	Opt.	String	Event source ID. The vehicle list (LPRVehicleList) is returned during the ANPR list matched or mismatched event search.
plateNo	Req.	String	License plate number.
vehicleGroupIndexCode	Req.	String	Vehicle group ID.
vehicleBrand	Opt.	Number	Vehicle brand. See Vehicle Brand for details.
vehicleType	Opt.	Number	Vehicle type. See Vehicle Type for details.
vehicleColor	Opt.	Number	Vehicle color. See Vehicle Color for details.
country	Opt.	Number	Country/region. See Country/Region for details.
vehicleDirectionType	Opt.	Number	Driving direction: 0 (other directions), 1 (downward, from far to near for the camera), 2 (upward, from near to far for the camera).
ownerName	Opt.	String	Vehicle owner name.
contact	Opt.	String	Vehicle owner contact information.
vehicleSpeed	Opt.	Number	Vehicle speed.

Example

Message Example of License Plate Matched or Mismatched Event

```
{
  "plateNo":"",
  "vehicleGroupIndexCode": ""
}
```

A.2.4 Face Picture Comparison Event Message

The table here shows the parameter fields of face picture comparison event message.

Table A-123 Message Field Description

Parameter Name	Req. or Opt.	Data Type	Description
alarmResult	Req.	Object	Face picture comparison results.
faces	Req.	Array	Face information list.
faces[0]	Req.	Object	Information of a face in the list.
URL	Req.	String	Captured face picture URL.
snap_pic_data	Opt.	String	Captured face picture data, which is encoded by Base64.
age	Opt.	Object	Age information.
ageGroup	Opt.	Number	"UNKNOWN", "CHILD", "YOUNG", "MIDDLE", "OLD", "INFANT", "KID", "TEENAGER", "PRIME", "MIDDLEAGED".
faceRect	Opt.	Array	Coordinates information list of a face frame.
faceRect[0]	Opt.	Object	Coordinates information of a face frame in the list.
height	Opt.	Number	Height.
width	Opt.	Number	Width.
x	Opt.	Number	X-coordinate.
y	Opt.	Number	Y-coordinate.
temperature	Opt.	Object	Temperature information.
temperatureData	Opt.	Float	Temperature value.
temperatureStatus	Opt.	Number	Temperature status: 0-unknown, 1-normal, 2-abnormal.
mask	Opt.	Object	Wearing mask information.
wearMaskStatus	Opt.	Number	Wearing mask or not: 0-unknown, 1-yes, 2-no.
gender	Opt.	Number	Gender information.

Parameter Name	Req. or Opt.	Data Type	Description
value	Opt.	String	"0" (unknown), "1" (male), "2" (female).
identify	Opt.	Object	Identification information.
candidate	Req.	Object	Matched face information.
blacklist_id	Req.	String	Face picture library ID of the matched face.
human_data	Req.	Object	Person data.
face_picurl	Req.	String	Picture URL of the matched face.
face_pic_data	Opt.	String	Picture data of the matched face, which is encoded by Base64.
human_id	Req.	String	Person ID of the matched face.
reserve_field	Opt.	Object	Reserved field.
name	Opt.	String	Person name of the face.
similarity	Req.	Number	Similarity between the matched face and captured face.
targetAttrs	Req.	Object	Target attributes.
cameraIndexCode	Req.	String	Camera ID of the captured picture.
faceTime	Req.	String	Captured time.
dataType	Req.	String	Event types, for face picture comparison event, the value of this field is " faceMatch ".

Example

Message Example of Face Picture Comparison Event

```
{
  "alarmResult": {
    "faces": [
      {
        "URL": "",
        "snap_pic_data": "",
        "age": {
          "ageGroup": "CHILD"
        },
        "faceRect": [
          {
            "height": ,
            "width": ,
            "x": ,
            "y": 
          }
        ]
      }
    ]
  }
}
```

```

}],
"temperature": {
    "temperatureData": ,
    "temperatureStatus": ,
},
"mask": {
    "wearMaskStatus": ,
},
"gender": {
    "value": "1",
},
"identify": {
    "candidate": {
        "blacklist_id": "",
        "human_data": {
            "face_picurl": "",
            "face_pic_data": ""
        },
        "human_id": "",
        "reserve_field": {
            "name": ""
        }
    },
    "similarity": ,
}
},
"targetAttrs": {
    "cameraIndexCode": "",
    "faceTime": ""
}
}
dataType: ""
}

```

A.2.5 On-Board Monitoring Event Message

The table here shows the parameter fields of on-board monitoring event message.

Parameter Name	Req. or Opt.	Data Type	Description
gps	Req.	Object	GPS information.
vehicle	Req.	Object	Vehicle information.
urlList	Opt.	urlList[]	URL of pictures or short videos.

Table A-124 gps field description

Parameter Name	Req. or Opt.	Data Type	Description
occurTime	Req.	String	GPS report time, in ISO 8601 standard time format: yyyy-MM-ddTHH:mm:ss +current zone, e.g., 2018-07-26T15:00:00+08:00.
longitude	Req.	Float	Longitude.
latitude	Req.	Float	Latitude.
direction	Req.	Number	Vehicle direction (calculated clockwise from due north (0); the actual degree * 100; [0, 36000]).
speed	Req.	Float	Speed (consistent with the platform: km/h by default). The maximum length is 16 characters.
speedUnit	Req.	Number	Speed unit: 0-km/h, 1-Mph.
displayInfo	Req.	String	Displayed GPS information.
directionInfo	Req.	String	Displayed direction ("North", "Northeast", "East", "Southeast", "South", "Southwest", "West", "Northwest"). The maximum length is 16 characters.

Table A-125 vehicle field description

Parameter Name	Req. or Opt.	Data Type	Description
plateNo	Req.	String	License plate number of the vehicle, which consists of up to 32 characters.
ownerName	Req.	String	Vehicle owner name, which is the specific field of the event message.
phoneNo	Req.	String	Vehicle owner's contact number.
vehicleBrand	Req.	Number	Vehicle brand. See details in .
vehicleColor	Req.	Number	Vehicle color. See details in <u>Vehicle Color</u> .
vehicleType	Req.	String	Vehicle type. See details in .

Table A-126 urlList field description

Parameter Name	Req. or Opt.	Data Type	Description
format	Req.	String	Format: 0-URL format, 1-binary format.
url	Req.	String	URL of pictures or short videos, which is the specific field of the event message.
expandInfo	Opt.	String	Extension information.

Table A-127 expandInfo field description

Parameter Name	Req. or Opt.	Data Type	Description
suffixName	Req.	String	File extension, e.g., "jpeg".
mediaType	Req.	String	Media type: VideoClip- video files, Image-pictures (default).

Example

Message Example of On-Board Monitoring Event

```
{
  "urlList": [
    {
      "format": 0,
      "url": "Vsm://PHQG#20220622#20220622_112325847.d:1941072:537216",
      "expand": {
        "suffixName": "jpeg",
        "mediaType": "Image"
      }
    }
  ],
  "gps": {
    "occurTime": "2022-06-22T16:48:06+08:00",
    "longitude": 120.21746826171875,
    "latitude": 30.210418701171876,
    "direction": 12000,
    "speed": 0.0,
    "speedUnit": 0,
    "displayInfo": "E120,13,2;N30,12,37",
    "directionInfo": "North"
  },
  "vehicle": {
    "plateNo": "zhe123",
    "ownerName": "",
    "phoneNo": "",
    "vehicleBrand": 0
  }
}
```

```

    "vehicleColor": 0,
    "vehicleTpe": 0
}
}

```

A.2.6 Dock Event Message

The table here shows the fields of dock event message.

Table A-128 Message Field Description

Parameter Name	Req. or Opt.	Data Type	Description
dockNo	Req.	String	Dock number.
dockStatus	Opt.	Number	Dock status: -1 (unknown), 1 (there is a vehicle), 2 (abnormal, there is a vehicle).
relateChannels	Req.	String	Channel number linked to the dock.
plateNo	Opt.	String	License plate number.
direction	Opt.	Number	Vehicle direction: 0 (unknown), 1 (entering), 2 (exiting).
bigImageUrl	Opt.	String	Large picture URL.
smallImageUrl	Opt.	String	Small picture URL.

A.2.7 Parking Space Change Event Message

The table here shows the fields of parking space change event message.

Table A-129 Message Field Description

Parameter Name	Req. or Opt.	Data Type	Description
spaceIndexCode	Req.	Number	Parking space ID.
floorIndexCode	Req.	Number	Floor No.
spaceSerial	Req.	String	Parking space No.
cameraIndexCode	Req.	Number	Camera ID.
spaceType	Req.	Number	Parking space type.
typeColor	Req.	String	Parking space color.

Parameter Name	Req. or Opt.	Data Type	Description
statusType	Req.	Number	Parking space status: -1 (abnormal), 0 (unknown), 1 (vacant), 2 (timeout), 4 (invalid). 2/3/4 indicates that the vehicle is in the parking space; 1 indicates the vehicle is out.
plateNo	Req.	String	License plate No.
parkingDuration	Req.	Number	Parking duration, unit: second.
parkingInTime	Req.	String	Park-in duration.
parkingImageUrl	Req.	String	Parking picture.
platenumberImageUrl	Req.	String	Parking license plate picture.
vehicleCategory	Req.	Number	Vehicle type.
vehicleListID	Req.	Number	Vehicle list ID.
vehicleListName	Req.	String	Vehicle list name.

A.3 Data Dictionary

Resource Types / Resource Permission Code

Resource Code	Resource Name	Permission Control Code	Permission Control Name
region	Area.	view	View.
acsDevice	Access controller.	view	View.
		eventRecv	Receive events.
door	Access point.	view	View.
		eventRecv	Receive events.
		doorControl	Open/Close door.
		normalControl	Remain open/closed door.
encodeDevice	Encoding device.	view	View.
		eventRecv	Receive events.

Resource Code	Resource Name	Permission Control Code	Permission Control Name
		intercom	Device intercom.
mobileDevice	On-board device.	\	\
mobileVehicle	Vehicle linked to on-board device.	\	\
camera	Camera.	view	View.
		preview	Preview.
		ptzControl	PTZ control.
		audioRecv	Receive audio.
		playback	Playback recording.
		eventRecv	Receive events.
		osdConfig	OSD overlay configuration.
		picQuery	Search picture.
		eventRecv	Receive events.
		histroyWay	Playback pattern.
ioIn	Alarm input.	view	View.
		eventRecv	Receive events.
ioOut	Alarm output.	view	View.
		ioOutControl	Output Control.
generalEventRule	General event rule.	view	View.
visitor	Visitor.	view	View.
		eventRecv	Receive events.

Access Protocol of Device

Access Protocol Code	Access Protocol Name
hiksdk_net	Hikvision Private Protocol
ehome_reg	Hikvision Intelligent Security Uplink Protocol
onvif_net	ONVIF Protocol

Gender Type

Gender Type	Type Description
0	Unknown.
1	Male.
2	Female.

Vehicle Color

Color Type	Type Description
0	Other color.
1	White.
2	Silver.
3	Gray.
4	Black.
5	Red.
6	Dark Blue.
7	Blue.
8	Yellow.
9	Green.
10	Brown.
11	Pink.
12	Purple.
13	Dark Gray.
14	Cyan.

Video Type

Enumeration Field	Data Type	Enumeration Type	Enumeration Value	Enumeration Value Description
streamType	Number	Stream Type	0	Main stream.
			1	Sub stream.

Enumeration Field	Data Type	Enumeration Type	Enumeration Value	Enumeration Value Description
			2	Central storage configured by remote site.
protocol	String	Stream Protocol	rtsp	RTSP protocol.
			rtmp	RTMP protocol.
			hls	HLS protocol.
			websocket	Websocket protocol streaming (added in platform and applied in jsdecoder).
			rtsp_s	Standard protocol streaming (added in platform and applied in RTSP streaming).
			websocket_s	WebSocket Secure protocol streaming.
transmode	Number	Transmission Protocol	0	UDP.
			1	TCP.
recordLocation	String	Storage Type	0	Center Storage.
			1	Device Storage.
action	Number	PTZ Control	0	Start.
			1	Stop.
command	String	Control Command	LEFT	Turn left.
			RIGHT	Turn right.
			UP	Turn up.
			DOWN	Turn down.
			ZOOM_IN	Zoom in.
			ZOOM_OUT	Zoom out.
			LEFT_UP	Turn upper left.
			LEFT_DOWN	Turn lower left.
			RIGHT_UP	Turn upper right.

Enumeration Field	Data Type	Enumeration Type	Enumeration Value	Enumeration Value Description
			RIGHT_DOWN	Turn lower right.
			FOCUS_NEAR	Focus+.
			FOCUS_FAR	Focus-.
			IRIS_ENLARGE	Iris+.
			IRIS_REDUCE	Iris-.
			GOTO_PRESET	Go to preset.

Capability Set

Capability Set ID	Capability Set Name
vss	Video capability.
event_veh	Vehice capture capability.
gis	FoV capability.
event_heat	Thermal imaging capability.
event_pdc	People counting statistics capability.
ptz	PTZ capability.

Recording Storage Location

Recording Storage Type Code	Recording Storage Type
0	Center storage.
1	Device Storage.
2	Center cluster storage.

Transmission Protocol

Transmission Protocol Code	Transmission Protocol Name
0	UDP
1	TCP

Recording Type

Recording Type Code	Recording Type
0	Main storage.
1	Main storage.

Age Group

Age Group Code	Age Group Name	Remarks
UNKNOWN	Unknown.	0
CHILD	Teenager.	3
YOUNG	Youth.	5
MIDDLE	Middle age.	7
OLD	Elderly.	9
INFANT	Infant.	1
KID	Child.	2
TEENAGER	Early youth.	4
PRIME	Prime.	6
MIDDLEAGED	Middle to old age.	8

Vehicle Type

Enumeration Value	Description
0	Others.
1	Passenger vehicle.
2	Truck.
3	Sedan.
4	Minivan.
5	Light truck.
6	Pedestrian.
7	Two wheeler.

Enumeration Value	Description
8	Tricycle.
9	SUV/MPV.
10	Middle-sized bus.
11	Motor vehicle.
12	Non-motor vehicle.
13	Small sedan.
14	Mini sedan.
15	Pickup truck.
16	Container truck.
17	Minitruck and dropside trailer.
18	Dump truck.
19	Crane and engineering vehicle.
20	Oil tank truck.
21	Concrete mixer.
22	Flatbed tow truck.
23	Hatchback.
24	Saloon.
25	Sport sedan.
26	Minibus.

Vehicle Brand

Enumeration Value	Description
0	Unknown
1	Walkswagen
2	Buick
3	BMW
4	Honda
5	Peugeot

Enumeration Value	Description
6	Toyota
7	Ford
8	Nissan
9	Audi
10	Mazda
11	Chevrolet
12	Citroen
13	Hyundai
14	Chery
15	Kia
16	Roewe
17	Mitsubishi
18	Skoda
19	Geely
20	Zhonghua
21	Volvo
22	Lexus
23	Fiat
24	Geely Emgrand
25	Dongfeng
26	BYD
27	Suzuki
28	Jinbei
29	Haima
30	SGMW
31	JAC
32	Subaru
33	Englon

Enumeration Value	Description
34	Great Wall
35	Hafei
36	Qingling/Isuzu
37	Southeast
38	Changan
39	Foton
40	Xiali
41	Benz
42	FAW
43	Iveco
44	Lifan
45	Besturn
46	Crown
47	Renault
48	JMC
49	MG
50	Kama
51	Zotye
52	Changhe
53	Xiamen Jinlong/Jinglv
54	Shanghai Huizhong
55	Suzhou Jinglong
56	Higer
57	Yutong
58	CNHTC
59	Beiben Heavy Truck
60	Hualing Xingma Motor
61	Yuejin Motor

Enumeration Value	Description
62	Huanghai Motor
63	Old Style Changcheng
64	Changan Commercial
65	Porsche
66	Cadillac
67	Infiniti
68	Geely Global Hawk
69	JEEP
70	Land Rover
71	Changfeng
72	Chang'an Benben
73	Fukuda Shidai
74	Chana Tauri Star
75	Chana EADO
76	Shaanxi Motor
77	Hongyan Motor
78	Balong Motor
79	Jianghuai JAC
80	Jianghuai Xiandai Bus
81	Ankai Passenger Bus
82	Shenlong Bus
83	Dayu Bus
84	Wuzheng Motor
85	MAN Motor
86	Zhongtong Bus
87	Baojun
88	Beijing Weiwang
89	Trumpchi

Enumeration Value	Description
90	Landwind
91	Zhengzhou Hippocampus/Haima Commercial Vehicle
92	Beijing Motor
93	Zhongshun
94	Weiling Motor
95	Opel
96	Kairui
97	Huapu Motor
98	Huapu Motor Wenzi SMA
99	JianglingYusheng
100	BMW MINI
101	Toyota MARKX
102	HAVAL
103	Acura
104	Venucia
105	BYD Style 2
106	Benz SMART
107	Beijing Vehicle Manufacture/BAW
108	Luxgen
109	Mustang
110	Zhongxing
111	Linian
112	Chrysler
113	Ji'ao
114	Song Hua Jiang
115	Ruiling
116	Fuda

Enumeration Value	Description
117	Jaguar
118	Heibao
119	Tangjun
120	Tangjun Wenzi
121	Fudi
122	Lianhua Motor
123	Nanjun
124	Shuanghuan Motor
125	Hafei Saibao
126	Huatai
127	Yongyuan Feidie
128	Yongyuan Motor
129	FLM
130	Huaili
131	Jianghuai Anchi
132	Paixi
133	HIGER Wenzi
134	Guangqi Riye Light Truck
135	Guangqi Riye Heavy Truck
136	Jiangnan
137	Old Style Zhongtai
138	Old Style Xiali
139	New Aochi
140	Zhongqi Wangpai
141	Zhongqi Wangpai Wenzi
142	Honda CIIMO
143	Chang'an Di Ai Shi
144	Dodge

Enumeration Value	Description
145	Rohe Coupe
146	Yantai
147	Shuanglong
148	Shidai Fengling/Shifeng
149	Xinkai
150	GMC
151	SAIC Datong
152	Beiqi Yinxiang
153	New Qirui
154	Wudan
155	Dayun Motor
156	Dongwo Motor
157	Union Motor
158	Chunzhou Bus
159	Sany Heavy Industry
160	Yaxing Bus
161	Hentong Bus
162	Shaolin Bus
163	Youth Bus
164	Shitong
165	Sanhuan
166	Xugong
167	Beifang Motor
168	Jianghuan Truck
169	Beijing Argricultural Motor
170	Xin Dadi Motor
171	Shengwo Bus
172	Yingtian

Enumeration Value	Description
173	Qingqi
174	Chufeng Motor
175	Scania
176	Jiulong Bus
177	Youyi Bus
178	Shangrao Bus
179	Jijiang
180	Yangzi Bus
181	Xiwo Bus
182	Changjiang Bus
183	Wuyi
184	Chengdu Bus
185	Tianma
186	Blong
187	SOYAT
188	KIA Borrego
189	Guanzhi
190	Seat
191	Bentley
192	Dadi
193	Fudge
194	Hangtian Motor
195	Hengtian Motor
196	Jiangling QingQi
197	Carlson Motor
198	Kawei Motor
199	Lamborghini
200	Maserati

Enumeration Value	Description
201	Shuchi Bus
202	Shili Bus
203	Zhongke Huabei
204	SAIC Yizheng
205	Chunlan Motor
206	Dafa Motor
207	Shenye Motor
208	Ferrari
209	Fuxing Motor
210	Anyuan Bus
211	Jinghua Bus
212	Taihu Bus
213	Wu Zhou Long
214	Changlong Bus
215	Yuexi Bus
216	Shenma Bus
217	Lushan
218	Wanfeng
219	Guangzhou Yunbao
220	Zhongda Motor
221	Tricycle
222	Two-Wheeler
223	JBC
224	Yangtse Bus
225	CNJ
226	Futian Shidai Wenzi
227	Agricultural Vehicle
228	Dong Fang Hong Motor

Enumeration Value	Description
229	Stey Motor
230	Hongqi Motor
1025	AC_Schnitzer
1026	ALFA ROMEO
1027	ASTON MARTIN
1029	LA JOYA
1041	BRABUS
1042	BUGATTI
1047	Changfeng Liebao
1049	Changan Saloon
1055	DETROIT Electric
1057	Dadi
1062	FORMASARI
1068	FISKER
1069	MITSUOKA
1073	Guangsheng
1075	Huabei
1079	HUMMER
1091	KANDI
1092	KOENIGSEGG
1095	Rolls-Royce
1096	LINCOLN
1099	LANCIA
1100	LOTUS NYO
1109	Meiya
1110	McLaren
1111	MAYBACH
1113	MORGAN

Enumeration Value	Description
1115	Nanjing Jinlong
1118	PGO
1122	Qiantu
1126	RUF
1130	SPYKER
1135	SAAB
1136	CIIMO
1137	STARTECH
1139	Tesla
1140	TechArt
1141	DENZA
1142	WIESMANN
1155	ETERNITI
1158	Youxia
1159	YOGOMO
1164	Zhidou
1165	Kaiyi
1166	HUASONG
1167	ISUZU
1168	BORGWARD
1169	Shanqi
1170	Hanjiang
1171	Zhinuo
1172	GreenWheel
1173	Hanteng
1174	LEVDEO
1176	SWM
1177	FQT

Enumeration Value	Description
1178	QOROS
1179	JMC
1180	BISU
1181	CAKY
1182	Haima
1183	Ourui
1540	Beiben
1541	NORTH Bus
1544	Balong
1546	Succeeded
1556	Dima
1573	Haiou
1574	Hangtian Yuantong
1583	GOLDEN DRAGON
1595	NAVECO
1598	YOUNG MAN
1607	FORLAND
1618	Tongxin Bus
1624	Wuhuan
1643	CDW
1645	CRANTON
1652	Mudan
1656	Yuexi
1659	Shunfeng
1660	Hengshan
1675	NEOPLAN
1681	Wanda
1682	Chang'an Suzuki

Enumeration Value	Description
1683	Guilin
1684	Sichuan Hyundai
1685	Aochi
1686	Denway Bus
1687	FAW-Liut
1688	Wanxiang
1690	Sojen
1692	Zoomlion
1693	Yinlong
1694	Jiachuan Auto
1695	Yixing
1698	Suitong
1701	Qingdao Jiefang
1702	ZTRV
1703	Wanda
1704	Shangrao
1705	ZEV
1706	EVCRRRC
1708	Gonglu Bus
1711	Neoplan
1712	Huachuan
1713	Youyi
1714	Tongxin
1716	Jiachuan
1717	Nvshen
1718	Shili
1719	Shaolin
1720	Chuanjiao

Enumeration Value	Description
1721	Chuanma
1722	GAC
1723	Hino
1724	Kandi
1725	CHTC
1726	Hentong
1728	NLM
1729	Chunlan
1730	Chufeng
1731	JMMC
1732	JMC
1733	Seagull
1736	Shenlong
1738	Hongxing
1739	Shuchi
1741	Hengshan
1743	Yuancheng
1745	Changan Oushang
1747	Lynk & Co
1749	Feichi
1750	Lishan
1751	Denway
1752	Nanjing Auto
1753	Dahan
1755	Dearcc
1756	Wanshan
1757	Central Europe Benz RV
1758	Yudo

Enumeration Value	Description
1759	Junma
1760	Guojin
1761	Weltmeiter
1762	Ora
1763	NIO
1764	Lada
1765	JETOUR
1766	FORO
1767	HICOM
1771	Perodua
1772	UD
1775	Isuzu
1776	Rohens
1783	Proton
1786	Emgrand
1787	Hino
1792	Alfa
1793	Equus
1794	Renault Samsung
1796	Oushang
1797	BONLUCK
1798	Qiling
1799	Wanxiang

Country/Region

Enumeration Value	Description
0	Unsupported
1	Czech Republic

Enumeration Value	Description
2	France
3	Germany
4	Spain
5	Italy
6	Netherlands
7	Poland
8	Slovakia
9	Belarus
10	Moldova
11	Russia
12	Ukraine
13	Belgium
14	Bulgaria
15	Denmark
16	Finland
17	United Kingdom
18	Greece
19	Croatia
20	Hungary
21	Israel
22	Luxembourg
23	Macedonia
24	Norway
25	Portugal
26	Romania
27	Serbia
28	Azerbaijan
29	Georgia

Enumeration Value	Description
30	Kazakhstan
31	Lithuania
32	Turkmenistan
33	Uzbekistan
34	Latvia
35	Estonia
36	Albania
37	Austria
38	Bosnia and Herzegovina
39	Ireland
40	Iceland
41	Vatican
42	Malta
43	Sweden
44	Switzerland
45	Cyprus
46	Turkey
47	Slovenia
48	Montenegro
49	Kosovo
50	Andorra
51	Armenia
52	Monaco
53	Liechtenstein
54	San Marino
55	Aland
59	China
60	Bahrain

Enumeration Value	Description
61	South Korea
62	Lebanon
63	Nepal
64	Thailand
65	Pakistan
66	United Arab Emirates
67	Bhutan
68	Oman
69	North Korea
70	Philippines
71	Cambodia
72	Qatar
73	Kyrgyzstan
74	Maldives
75	Malaysia
76	Mongolia
77	Saudi Arabia
78	Brunei
79	Laos
80	Japan
82	Palestinian
83	Tajikistan
84	Kuwait
85	Syria
86	India
87	Indonesia
88	Afghanistan
89	Sri Lanka

Enumeration Value	Description
90	Iraq
91	Vietnam
92	Iran
93	Yemen
94	Jordan
95	Myanmar
96	Sikkim
97	Bangladesh
98	Singapore
99	Democratic Republic of Timor-Leste
104	Egypt
105	Libya
106	Sudan
107	Tunisia
108	Algeria
109	Morocco
110	Ethiopia
111	Eritrea
112	Somalia Democratic
113	Djibouti
114	Kenya
115	Tanzania
116	Uganda
117	Rwanda
118	Burundi
119	Seychelles
120	Chad
121	Central African

Enumeration Value	Description
122	Cameroon
123	Equatorial Guinea
124	Gabon
125	Congo
126	Democratic Republic of the Congo
127	Sao Tome and Principe
128	Mauritania
129	Western Sahara
130	Senegal
131	Gambia
132	Mali
133	Burkina Faso
134	Guinea
135	Guinea-Bissau
136	Cape Verde
137	Sierra Leone
138	Liberia
139	Ivory Coast
140	Ghana
141	Togo
142	Benin
143	Niger
144	Zambia
145	Angola
146	Zimbabwe
147	Malawi
148	Mozambique
149	Botswana

Enumeration Value	Description
150	Namibia
151	South Africa
152	Swaziland
153	Lesotho
154	Madagascar
155	Comoros
156	Mauritius
157	Nigeria
158	South Sudan
159	Saint Helena
160	Mayotte
161	Reunion
162	Canary Islands
163	AZORES
164	Madeira
169	Canada
170	Greenland Nuuk
171	Pierre and Miquelon
172	United States
173	Bermuda
174	Mexico
175	Guatemala
176	Belize
177	El Salvador
178	Honduras
179	Nicaragua
180	Costa Rica
181	Panama

Enumeration Value	Description
182	Bahamas
183	Turks and Caicos Islands
184	Cuba
185	Jamaica
186	Cayman Islands
187	Haiti
188	Dominican
189	Puerto Rico
190	United States Virgin Islands
191	British Virgin Islands
192	Anguilla
193	Antigua and Barbuda
194	Collectivit de Saint-Martin
195	Autonomous country
196	Saint-Barthlemy
197	Saint Kitts and Nevis
198	Montserrat
199	Guadeloupe
200	Dominica
201	Martinique
202	St. Lucia
203	Saint Vincent and the Grenadines
204	Grenada
205	Barbados
206	Trinidad and Tobago
207	Curaçao
208	Aruba
209	Netherlands Antilles

Enumeration Value	Description
210	Colombia
211	Venezuela
212	Guyana
213	Suriname
214	Guyane Francaise
215	Ecuador
216	Peru
217	Bolivia
218	Paraguay
219	Chile
220	Brazil
221	Uruguay
222	Argentina
227	Australia
228	New Zealand
229	Papua New Guinea
230	Salomonen
231	Vanuatu
232	New Caledonia
233	Palau
234	Federated States of Micronesia
235	Marshall Island
236	Northern Mariana Islands
237	Guam
238	Nauru
239	Kiribati
240	Fidschi
241	Tonga

Enumeration Value	Description
242	Tuvalu
243	Wallis et Futuna
244	Samoa
245	Eastern Samoa
246	Tokelau
247	Niue
248	Cook Islands
249	French Polynesia
250	Pitcairn Islands
251	Hawaii State
254	Unrecognized
255	Unknown

A.4 Event Types or Alarm Categories

Camera Alarms

Alarm Category	Category Code	Resource Type
Vehicle Matched Event	130	camera
Vehicle Mismatched Event	131	camera
Temperature Exception	193	camera
No Mask	194	camera
Face Capture	49697	camera
Driving on the Lane Line	103008	camera
Video Loss	131329	camera
Video Tampering Detection	131330	camera
Motion Detection	131331	camera
Line Crossing	131585	camera

Alarm Category	Category Code	Resource Type
Region Entrance	131586	camera
Region Exiting	131587	camera
Intrusion	131588	camera
Loitering	131590	camera
Parking	131591	camera
Fast Moving	131592	camera
People Gathering Alarm	131593	camera
Unattended Baggage	131594	camera
Object Removal	131595	camera
Violent Motion Detection	131596	camera
Climbing Detection	131597	camera
Getting Up Detection	131598	camera
Operation Timeout	131600	camera
Sticking Script	131601	camera
Install Card Reader	131602	camera
Absence Detection	131603	camera
Tailing	131604	camera
Falling Down	131605	camera
In-Toilet Overtime Detection	131608	camera
Yard Overstay Detection	131609	camera
Key Person Getting Up Detection	131610	camera
Scene Change Detection	131612	camera
Defocus Detection	131613	camera
Audio Exception Detection	131623	camera
Abnormal Number of People	131664	camera
Standing Up Detection	131666	camera
Sitting Detection	131667	camera
Staying Overtime	131669	camera

Alarm Category	Category Code	Resource Type
People Density Analysis	131672	camera
Using Mobile Phone	131673	camera
Physical Conflict	131677	camera
Physical Conflict (Indoor)	131678	camera
Wrong-Way Driving	131679	camera
Police Absence	131682	camera
People Density	131702	camera
Abnormal Face	131704	camera
Sleep on Duty Detection	131717	camera
Vehicle Speeding	131841	camera
Making Phone Call	132374	camera
Waiting Time Detection Alarm	133121	camera
People Queuing-up Alarm	133122	camera
Fire and Smoke Detection	192515	camera
Temperature Alarm	192517	camera
Temperature Difference Alarm	192518	camera
Reverse Entering Alarm	200497	camera
Illegal Lane Change	225309	camera
Illegal Parking	254101	camera
PIR	364545	camera
Camera Recording Exception	385052	camera
Camera Recording Recovered	385053	camera
Hard Hat Detection	1417219	camera
Multi-Target-Type Detection	1421313	camera
Sudden Change of Sound Intensity Detection	1441795	camera
Face Detection	1482753	camera
AIOP Event	3072-4071	camera
HEOP Event	4027	camera

Alarm Input Alarms

Alarm Category	Category Code	Resource Type
Alarm Input Triggered	589825	ioIn

Encoding Device Alarms

Alarm Category	Category Code	Resource Type
HDD Full	66050	encodeDevice
Illegal Login	66053	encodeDevice
R/W HDD Failure	66054	encodeDevice
Array Exception	66055	encodeDevice
Video Standard Mismatch	66065	encodeDevice
Camera/Recording Resolution Mismatch	66066	encodeDevice
Device Offline	66306	encodeDevice
Device Reconnected	66311	encodeDevice
Encoding Device Recording Exception	385050	encodeDevice
Encoding Device Recording Recovered	385051	encodeDevice
HDD Bad Sector	225404	encodeDevice
HDD High Temperature	225405	encodeDevice
HDD Impact Detection	225406	encodeDevice
HDD Severe Failure	225407	encodeDevice

Door Alarms

Alarm Category	Category Code	Resource Type
Remaining Locked Status Started	198148	door
Remaining Locked Status Ended	198150	door
Door Open Timed Out (Door Contact)	198400	door
Remaining Unlocked Status Started	198401	door
Remaining Unlocked Status Ended	198402	door

Alarm Category	Category Code	Resource Type
Force Accessing	198657	door
Door Abnormally Open (Door Contact)	198658	door
Door Open (Door Contact)	198913	door
Remote: Unlocked Door	198919	door
Remote: Remained Unlocked (Free Access)	198922	door
Door Closed (Door Contact)	199169	door
Remote: Locked Door	199171	door
Remote: Remained Locked (Credential Failed)	199172	door
Card Reader Tampering Alarm	199608	door
Door Unlocked (Door Lock)	199941	door
Door Locked (Door Lock)	199942	door

Access Control Device Alarms

Alarm Category	Category Code	Resource Type
Device Tampered	199708	acsDevice
Device Tampering Alarm Restored	199709	acsDevice

On-Board Device Alarms

Alarm Category	Category Code	Resource Type
On-Board Devices Online	641	mobileDevice
On-Board Devices Offline	642	mobileDevice
ACC OFF	100816	mobileDevice
ACC ON	100817	mobileDevice

Person Alarms

Alarm Category	Category Code	Resource Type
Temperature Exception	193	camera/door
No Mask	194	camera/door

General Event Alarms

Event Type	Event Type Code	Resource Type
Generic Event	195	generalEventRule

Card Swiping Events

Event Type	Event Type Code	Resource Type
Multi-Factor Authentication: Access Granted	196883	door
Multi-Factor Authentication: Super Password Access Granted	196884	door
Access Granted by Card and Fingerprint	196885	door
Access Granted by Card, Fingerprint, and PIN	196886	door
Access Granted by Fingerprint and PIN	196887	door
Access Granted by Face and Fingerprint	196888	door
Access Granted by Face and PIN	196889	door
Access Granted by Face and Card	196890	door
Access Granted by Face, PIN, and Fingerprint	196891	door
Access Granted by Face, Card, and Fingerprint	196892	door
Access Granted by Face	196893	door
Access Granted by Employee ID and Fingerprint	196894	door
Access Granted by Employee ID, Fingerprint, and PIN	196895	door
Access Granted by Employee ID and Face	196896	door
Access Granted by Employee ID and PIN	196897	door
Access Denied by Invalid M1 Card	196898	door
Verifying CPU Card Encryption Failed	196899	door

Event Type	Event Type Code	Resource Type
Access Denied (NFC Card Reading Disabled)	196900	door
EM Card Reading Not Enabled	196901	door
M1 Card Reading Not Enabled	196902	door
CPU Card Reading Disabled	196903	door
Skin-Surface Temperature Measured	197107	door
Access Granted by Fingerprint	197127	door
Access Denied by Fingerprint	197128	door
Access Timed Out by Card and PIN	197132	door
Max. Card and Password Authentication Times	197133	door
Access Denied by Card and Fingerprint	197134	door
Access Timed Out by Card and Fingerprint	197135	door
Access Denied by Card, Fingerprint, and PIN	197136	door
Access Timed Out by Card, Fingerprint, and PIN	197137	door
Access Denied by Fingerprint and PIN	197138	door
Access Timed Out by Fingerprint and PIN	197139	door
Fingerprint Does Not Exist	197140	door
Access Denied by Face and Fingerprint	197141	door
Access Timed Out by Face and Fingerprint	197142	door
Access Denied by Face and PIN	197143	door
Access Timed Out by Face and PIN	197144	door
Access Denied by Face and Card	197145	door
Access Timed Out by Face and Card	197146	door
Access Denied by Face, PIN, and Fingerprint	197147	door
Access Timed Out by Face, PIN, and Fingerprint	197148	door

Event Type	Event Type Code	Resource Type
Access Denied by Face, Card, and Fingerprint	197149	door
Access Timed Out by Face, Card, and Fingerprint	197150	door
Access Denied by Face	197151	door
Access Denied by Employee ID and Fingerprint	197152	door
Access Timed Out by Employee ID and Fingerprint	197153	door
Access Denied by Employee ID, Fingerprint, and PIN	197154	door
Access Timed Out by Employee ID, Fingerprint, and PIN	197155	door
Access Denied by Employee ID and Face	197156	door
Access Timed Out by Employee ID and Face	197157	door
Access Denied by Employee ID and PIN	197158	door
Access Timed Out by Employee ID and PIN	197159	door
Facial Recognition Failed	197160	door
Live Facial Detection Failed	197161	door
Access Denied by Card and PIN	197382	door
Anti-Passback Violation	197383	door
Invalid Time Period	197384	door
Card Not in Multi-Factor Authentication Group	197391	door
Card Not in Multi-Factor Authentication Duration	197392	door
Card No. Expired	197633	door
Card No. Does Not Exist	197634	door
No Access Level Assigned	197635	door
Multi-Door Interlocking	198146	door

Event Type	Event Type Code	Resource Type
Access Granted by Card	198914	door
Access Granted by Card and PIN	198915	door
Max. Card Access Failed Attempts	199429	door
Access Denied: First Person Not Authorized	200477	door
Access Denied (Door Remained Locked or Inactive)	200513	door
Access Denied: Scheduled Sleep Mode	200514	door
Employee ID Does Not Exist	200515	door
Access Granted via Combined Authentication Modes	200516	door
Combined Authentication Timed Out	200517	door
Authentication Mode Mismatch	200518	door
Password Mismatches	200519	door
Verifying Card Encryption Information Failed	261952	door
Password Authenticated	263433	door
Duress Alarm	721678	door
Failed Password Attempts Alarm	983304	door
Access Granted via QR Code	110025	door
Authentication via QR Code Failed	110569	door
Access Granted via Bluetooth	110022	door
Authentication via Bluetooth Failed	110564	door
Access Granted by Palm Print or Palm Vein	110026	door
Access Denied by Palm Print or Palm Vein	110571	door
Anti-Spoofing Detection of Palm Print or Palm Vein Failed	110572	door

ANPR Events

Event Type	Event Type Code	Resource Type
License Plate Information Uploading	131622	camera

Facial Events

Event Type	Event Type Code	Resource Type
Face Picture Comparison Event	131659	camera

On-Board Monitoring Events

Event Type	Event Type Code	Resource Type
GPS Data Report	643	mobileVehicle
Forward Collision Warning	644	mobileVehicle
Headway Monitoring Warning	645	mobileVehicle
Lane Deviation Warning	646	mobileVehicle
Pedestrian Collision Warning	647	mobileVehicle
Speed Limit Warning	648	mobileVehicle
Blind Spot Warning	649	mobileVehicle
Smoking	650	mobileVehicle
Using Mobile Phone	651	mobileVehicle
Fatigue Driving	652	mobileVehicle
Distraction	653	mobileVehicle
Seatbelt Unbuckled	654	mobileVehicle
Video Tampering	655	mobileVehicle
Emergency Alarm	656	mobileVehicle
Sharp Turn	657	mobileVehicle
Sudden Brake	658	mobileVehicle
Sudden Acceleration	659	mobileVehicle
Rollover	660	mobileVehicle

Event Type	Event Type Code	Resource Type
Speeding	661	mobileVehicle
Collision	662	mobileVehicle
Fence for Entry Detection	663	mobileVehicle
Deviation	664	mobileVehicle
Fence for Exit Detection	665	mobileVehicle

Street Data Analysis Events

Event Type	Event Type Code	Resource Type
Open-Air Vendor	100379	camera
Unregistered Street Vendor	100380	camera
Roadside Vendor	100381	camera
Goods Piling Up	100382	camera
Running Business with Patio Umbrella	100383	camera
Illegal Advertisement	100384	camera
Hanging Staff Along the Street	100385	camera
Packed Garbage	100386	camera
Open-Air Garbage	100387	camera
Dustbin Overflowing	100388	camera
Non-motor Vehicle Parking Violation	100389	camera
Road waterlogging	100718	camera

All Visitors (Alarm)

Event Type	Event Type Code	Resource Type
Visitor Not Checked Out After Exit Time	100306	visitor

Dock Events

Event Type	Event Type Code	Resource Type
Events of Vehicle Entry/Exit at Dock	660002	camera
Events of Dock Status	660003	camera

Event Type	Event Type Code	Resource Type
Parking Space Change Events	340001	camera

Water Level Detection Events

Event Type	Event Type Code	Resource Type
Water Level Exceeded Limit	100719	camera

Traffic Related Events

Event Type	Event Type Code	Resource Type
Emergency Lane Occupied	100708	camera
Roadblock	100709	camera
Construction	100710	camera
Fallen Object	100711	camera
Pedestrian	100712	camera
Congestion	100713	camera
Smoke	100714	camera
Rapid Deceleration	100715	camera
Low-Speed Driving	100716	camera
Occupied by Animal	100717	camera
Stopped Vehicle	100720	camera
Wrong-Way Driving	100721	camera
Driving on the Lane Line	100722	camera
Lane Change	100723	camera
Fire	100724	camera

Event Type	Event Type Code	Resource Type
Speeding	100725	camera
Traffic Accident	100854	camera
Vehicle Breakdown	100855	camera
Vehicle Overstay	100856	camera
Motor Vehicle on Non-Motor Vehicle	10007	camera
U-Turn	10008	camera

A.5 Status or Error Code

API Gateway Status or Error

Status or Error Code	Description
0x02401000	No AppKey is configured. Enter the correct AppKey in the request.
0x02401001	The partner of AppKey does not exist. Check the AppKey in the request.
0x02401002	No signature is configured. Enter the correct signature in the request.
0x02401003	Invalid signature. Check the signature in the request.
0x02401004	Token authentication failed. Check the token.
0x02401005	No token is configured. Enter the token.
0x02401006	Token exception. Check the token.
0x02401007	No permission. Please contact the administrator to apply for permissions.
0x02401008	Authentication exception. Check the gateway service.
0x02401009	Maximum API calling attempts reached. Please contact the administrator to apply for adding access attempts.
0x0240100a	Parameter conversion exception. Check the API parameters.
0x0240100b	Calling statistics exception. Check the gateway.

Parameter Status or Error

Status or Error Code	Description
0x00072001	The required parameters are not configured. Set the required parameters in the request.
0x00072002	Invalid parameter value range.
0x00072003	Invalid parameter value format.
0x00072004	The response message is too long. Set the page size in the request.

Internal Service Status or Error

Status or Error Code	Description
0x00052101	Highest service performance reached. Try again later.
0x00052102	Service error. Try again later.
0x00052103	Service response timed out. Try again later.
0x00052104	Service is not available. Try again after restoring the service.

Resource Access Status or Error

Status or Error Code	Description
0x00072201	No permission for resource access. Please contact the administrator to apply for permissions.
0x00072202	The resource does not exist. Enter the correct resource No. in the request.
0x00072203	Maximum number of Licenses reached. Check the License information from the administrator.
0x00072204	No permission for this function. Check the License information from the administrator.

Other Status or Error

Status or Error Code	Description
0x00052301	Unknown error.

OpenAPI Translation Service Status or Error

Status or Error Code	Description
1	Unknown error.
2	Incorrect request parameter.
3	Insufficient system resources.
4	Network timed out.
5	Service exception.
6	The server is busy.
7	Invalid network command.
8	This product version is not supported.
9	Invalid token.
10	Incorrect XML response message.
11	The HTTP is not supported.
12	The URL is not supported.
13	The authentication information between service and VMSPlatform OpenAPI mismatches.
14	The WAN information of VMSPlatform OpenAPI is not configured.
15	The NIC information of VMSPlatform OpenAPI is not configured.
16	Connecting to service exception.
17	No permission for OpenAPI access.
64	The user of third-party partner platform exception.
65	The user is locked.
66	The user does not exist.
67	Initialize before login for first time.
128	The request resource does not exist.
129	The resource is offline.
130	No permission for the resource access.
131	The request resource already exists.

Status or Error Code	Description
132	The maximum number of resources reached.
133	The resource is occupied.
140	The recording schedule does not exist.
192	Operation and control failed.
193	Connecting to cloud storage failed.
194	Connecting to device failed.
195	The device does not support this function.

OpenAPI Education Service Status or Error

Status or Error Code	Description
1	Unknown error.
2	Incorrect request parameter.
4	Network timed out.
10	No permission.
15	Database operation failed.
200	Session expired. Log in again.
1126	It is not supported by the current License.
3100	The person doesn't exist.
3101	The person ID already exists.
3102	The person ID doesn't exist.
405004	Classroom does not exist.
405006	Teacher does not exist.
405007	Class node does not exist.
405008	Not class.
405009	The imported student list is empty.
405010	Student does not exist.
405011	The student has been added to other class.
405017	Class name already exists.

Status or Error Code	Description
405018	Total number of classes exceeded limit.
405030	The class has no enabled timetable.
405033	Template time and semester time mismatch.
405034	Ongoing courses exist in class.
405036	The person has been set as teacher and cannot be set as student.
405037	The person has been set as student and cannot be set as teacher.
405042	Invalid class name.
405043	Invalid teacher name.
405044	Invalid course name.
405045	Course is empty.
405046	Class area already exists.
405047	Invalid classroom name.
405048	Time period error.
405050	The import teacher list is empty.
405051	Teacher already exists.
405052	No more teachers are allowed.
405053	Invalid teacher information.
405055	No more students are allowed in the class.
405057	Invalid student name.
405060	Invalid enrollment time format.
405061	The student has been added to the class. Do not add again.
405082	Teacher organization is empty.
405083	Teacher organization name already exists.
405084	Teacher organization does not exist.
405100	Importing teacher failed.
405101	Importing student failed.
405105	Invalid class type.
405106	The actual class type mismatches with input parameter.

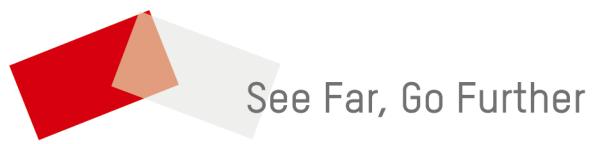
Status or Error Code	Description
405107	Enrollment time is empty.
405108	Parameters in course schedule list are empty.
405109	Course information is empty.
405111	Invalid organization name.
405112	Class name is empty.
405113	Adding child node is not allowed. The parent node of class is class.
405114	Number of class nodes exceeded limit.
405115	Adding class is not allowed. Area already exists in the parent node of class.
405116	Adding area is not allowed. Class already exists in the parent node of class.
405117	Adding class is not allowed. The parent node of class is root node.
405118	Class teacher or course teacher is not linked.
405119	Invalid person ID format.
405120	The parent node is class.
405121	Number of teachers in the class exceeded limit.
405122	Number of teachers in the class node exceeded limit.
405123	Person ID already exists and mismatches with the entered person name.
405124	Incorrect class node attribute.
405125	Number of teacher organizations exceeded limit.
405126	Incorrect week order.
405127	Incorrect section.
405140	The person has been set as care-giver and cannot be set as student.
405141	The person has been set as care-giver and cannot be set as teacher.

Canteen Consumption Service Status or Error

Status or Error Code	Description
1	Unknown error.
2	Incorrect request parameter.

Status or Error Code	Description
4	Network timed out.
10	No permission.
13	Duplicate name.
14	Input content is too long.
15	Database operation failed.
55	Name is empty.
200	Session expired. Log in again.
217	The URL is not supported.
1126	It is not supported by the current License.
3100	Person does not exist.
188014	Adding some persons to payment group failed.
188015	Deleting some persons in payment group failed.
188019	Payment group does not exist.
188020	Account does not exist.
188021	Balance or times exceeded limit.
188022	Refund amount or times to be returned exceeded limit.
188023	Account is not configured with scheduled allowance.
188024	Payment group is not configured with scheduled allowance.
188025	Payment amount or times exceeded limit.
188027	Person is empty in payment group.
188030	Not all are succeeded.
188031	All failed.
188035	Charging type parameter error.
188036	Person status parameter error.
188037	Offline payment parameter error.
188038	Payment record type parameter error.
188039	Person type parameter error.
188040	Invalid start time format.

Status or Error Code	Description
188041	Invalid end time format.
188042	Transaction type parameter error.
188043	Scheduled allowance effective time parameter error.
188044	Scheduled allowance date parameter error.
188045	Scheduled allowance time parameter error.
188046	Configuration object for scheduled allowance is not person or payment group.
188047	Scheduled allowance amount exceeded limit.
188048	Scheduled allowance times exceeded limit.
188049	Scheduled allowance amount and times cannot be 0 at the same time.
188060	The custom payment group does not exist.
188061	The account balance or remaining times parameter error.
188062	Incorrect sorting parameter.
188063	The operation parameter error.
188064	The amount or times parameter error.
188065	Top-up or allowance object parameter error.
188066	Person parameter error.
188067	Parameter of showing sub department error.
188068	Start time should be earlier than end time.



See Far, Go Further